Undergraduate Research Conference

A UNIVERSITY-WIDE CELEBRATION OF RESEARCH, SCHOLARSHIP AND CREATIVITY
A welcome to participants and attendees

THANK YOU FOR JOINING US FOR THE 19TH ANNUAL Undergraduate Research Conference, the UNH community’s celebration of the innovative research, academic excellence, scholarship and creative activities of our students and their faculty mentors.

The URC reflects the university’s legacy of providing students with great research opportunities, creating innovative solutions and building partnerships that improve the quality of life here in New Hampshire and around the world. With more than 1,900 students and 400 faculty mentors, the URC is one of the largest and most diverse gatherings of undergraduate researchers in the nation.

At both our Durham and Manchester campuses, the URC invites you to explore the academic achievements of students in every school and college. Whether your visit includes a poster session, an oral presentation or a creative demonstration, you will be impressed with the participants’ knowledge and understanding. We’re delighted to welcome you to the URC, and appreciate your support of our students and New Hampshire’s flagship public research university.

Best regards,

Mark W. Huddleston, President

Nancy M. Targett

Provost and Vice President for Academic Affairs
Welcome to the annual celebration of academic excellence at the University of New Hampshire! The URC embodies UNH’s mission to offer students a discovery-based education by encouraging inquiry, exploration, and deeper immersion in their fields of study. This year, more than 1,900 students—mentored by 400 faculty members and other research advisers—will present their research and scholarship at URC events, which include symposia, panel and poster sessions, performances, and prize competitions. Student presenters represent disciplines from across the academic spectrum, reflecting the breadth and depth of undergraduate research and scholarship at UNH.

At the Hamel Center for Undergraduate Research, our core mission is to provide resources and financial support for the research, scholarly, and creative projects of UNH students. Our additional role as the administrative home of the URC enables us to broaden our commitment to supporting, nurturing, and showcasing all stages of the research process. We are excited to build upon the growth and success of previous years and to further promote and expand the opportunities for undergraduate research at UNH.

In every research process, the final stage is the communication of findings to the wider public, and the URC enables students to share the results of their scholarship with fellow students, faculty, staff, family members, federal and state agency personnel, business and industry representatives, and members of our local community. For many students, the URC is their first opportunity to showcase their work to such a broad audience. The URC is thus vital in giving students practice in speaking in public, communicating complex ideas to a general audience, sharing ideas with colleagues in their fields, and developing a deeper understanding of their subject areas. Such experience prepares students to pursue graduate study and to establish and be successful in meaningful careers.

Finally, we want to recognize the many members of the UNH community whose dedication and enthusiasm are critical to making the URC possible. You will find their names in the acknowledgements at the back of the book. The partnerships between—and shared investment of—students, faculty, staff, and administrators not only ensure the success of the URC but also demonstrate the strength of the UNH community. Thank you for joining our community as we celebrate our students’ remarkable scholarship!

Paul C. Tsang, Ph.D.
Director, Hamel Center for Undergraduate Research
Professor of Molecular, Cellular, and Biomedical Sciences

Molly Doyle, Ph.D.
Administrative Director,
Hamel Center for Undergraduate Research

Senem Kaptan
URC Coordinator,
Hamel Center for Undergraduate Research
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*All events are free and open to the public.*

*Accessibility accommodation requests may be directed to Senem Kaptan at (603) 862-5494.*
FRIDAY, APRIL 13
6–8 p.m.
Senior B.A., B.F.A. & M.F.A. Exhibition
and Preview Reception
The exhibition will remain open until May 18.
Paul Creative Arts Center, Museum of Art (8)

TUESDAY, APRIL 17
10 a.m.–1 p.m.
UNH Manchester URC Oral Presentations
Pandora Mill, Room 201

WEDNESDAY, APRIL 18
11 a.m.–1 p.m.
Thompson School of Applied Science
Student Showcase
Cole Hall, Stacy’s Cafe (1)

Noon–2 p.m.
The Naked Arts—Creativity Exposed!
(Act I)
Paul Creative Arts Center, Museum of Art (8)

1:30–4 p.m.
Interdisciplinary Science and Engineering (ISE) Symposium
Whittemore Center Arena (10)

3–5 p.m.
UNH Manchester URC Computing Technology Poster Presentations
Pandora Mill, 1st Floor

3–5 p.m.
UNH Manchester URC Poster Presentations
Pandora Mill, Room 201 and Student Commons

THURSDAY, APRIL 19
9 a.m.–2:30 p.m.
Paul College of Business and Economics URC
Paul College (7)

11 a.m.–1 p.m.
UNH Manchester URC Cinema Arts Day
Pandora Mill, Room 456

Noon–2 p.m.
Paul College of Business and Economics Paul J. Holloway Prize
Innovation to Market Competition
Charles & Miriam Nelson Poster Competition
Paul College (7)

12:15–2 p.m.
History Department URC
Memorial Union Building, Rooms 302, 338, 340 (4)

12:40–2 p.m.
The Naked Arts—Creativity Exposed!
(Act II)
Paul Creative Arts Center, Museum of Art (8)

4–7 p.m.
Philosophy Department URC
Hamilton Smith Hall, Room 240 (2)

FRIDAY, APRIL 20
9–9:30 a.m.
All Colleges Undergraduate Research Symposium Welcome Breakfast
Memorial Union Building, Granite State Room (4)

9:30 a.m.–1:25 p.m.
All Colleges Undergraduate Research Symposium
Memorial Union Building, Granite State Room and various rooms (4)

12:15–1 p.m.
The Naked Arts—Creativity Exposed!
(Act III)
Memorial Union Building, Theatre I (4)

1–4 p.m.
College of Health and Human Services (CHHS) Grimes Award Competition
Pettee Hall, Room 114 (9)

1–5 p.m.
Languages, Literatures, & Cultures (LLC) Department URC
Murkland Hall, Room 202 (5)

1–4 p.m. and 4–8:15 p.m.
Paul College of Business and Economics Paul J. Holloway Prize
Innovation to Market Competition
Bud Albin Challenge Round
Paul College (7) and UNH ECenter

1:30–4 p.m.
Honors English URC
Hamilton Smith Hall, Rooms 150 and 205 (2)

8–10 p.m.
Student Composers’ Concert
Paul Creative Arts Center,
Bratton Recital Hall (8)

SATURDAY, APRIL 21
8:30 a.m.–12:15 p.m.
College of Life Sciences and Agriculture (COLSA) URC
Memorial Union Building, MUB Theatre II and Granite State Room (4)

FRIDAY, APRIL 27
9 a.m.–4 p.m.
UNH Manchester URC Engineering Technology Senior Project Presentations
Pandora Mill, Room 201 and 1st Floor

1:30–5 p.m.
Psychology Department George M. Haslerud URC
McConnell Hall, Rooms 220 and 245 (3)

SATURDAY, APRIL 28
9 a.m.–3 p.m.
Paul College First-Year Innovation and Research Experience (FIRE) URC
Paul College (7)

WEDNESDAY, MAY 2
8 a.m.–2 p.m.
Ann Manchester Kelley Nursing Inquiry Day
Memorial Union Building, Strafford Room (4)

THURSDAY, MAY 3
3–4:30 p.m.
Chemistry Department Poster Exhibition
Parsons Hall, Southwest Lobby (6)

WEDNESDAY, MAY 9
1–6 p.m.
Paul College of Business and Economics Paul J. Holloway Prize
Innovation to Market Competition Championship Round
Paul College (7)
URC 2018 Campus Map

BUILDING KEY
1. Cole Hall
2. Hamilton Smith Hall
3. McConnell Hall
4. Memorial Union Building (MUB)
5. Murkland Hall
6. Parsons Hall
7. Paul College
8. Paul Creative Arts Center
9. Pettee Hall
10. Whittemore Center Arena

UNH Manchester
88 Commercial Street (Pandora Mill)
Manchester, N.H.

For directions to UNH Manchester go to manchester.unh.edu/directions-parking or call (603) 641-4124.
### Senior B.A., B.F.A. & M.F.A. Exhibition and Preview Reception

**Friday, April 13**  
6–8 p.m.  
Paul Creative Arts Center, Museum of Art

This annual show celebrates the achievements of graduating art students from the UNH Department of Art and Art History.

Adviser: Jennifer Moses

Samantha Elsaesser  
Art: Studio Art  
*BFA Thesis Work with a Concentration in Photography*

Hannah Lacey  
Fine Arts  
*Painting Thesis BFA*

Patricia Leonard  
Fine Arts  
*BFA Thesis—Photography*

Cierra Vigue  
Art: Studio Art  
*Intricate Installation*

Emily Wernig  
Art: Studio Art  
*BFA Thesis Work: Connecting Drawing and Ceramics*

### UNH Manchester Undergraduate Research Conference

#### Oral Presentations

**Tuesday, April 17**  
10 a.m.–1 p.m.  
Pandora Mill, Room 201  
88 Commercial St., Manchester

The UNHM URC Oral Presentations feature formal scholarly presentations and/or multimedia presentations reflecting the students’ research interests.

Caroline Consoli  
Communication Arts  
*Ghosts in Our Movie Theaters: Forming a Dialogue with the Dead and Facing Fears through Horror Films*  
Adviser: Jeffrey Klenotic

Abou Alhassan Essa  
Meriah Metzger  
Politics and Society  
*Present and Defend: SB 422*  
Adviser: Stephen Pimpare

Kyle Foden  
Alexander Rego  
Political Science  
*HB 656: Marijuana Legalization in New Hampshire*  
Adviser: Stephen Pimpare

Logan Frye  
Communication Arts  
*Nationalism Is a Gateway Drug: Analyzing Nationalistic Influence in Tobacco Advertisements in Russia and China*  
Adviser: Kristen Woytonik

Nicholas Sammartino  
History  
*The Relationship between Policy and Drug Use in the United States and Portugal*  
Adviser: Kristen Woytonik

Nicholas Tatam  
Homeland Security  
*Fourth Amendment Protections in the Digital Age*  
Adviser: Maeve Dion

Danielle Johnson  
History  
*The Salability of Ferns as a Crop Grown “Under-Bench”*  
Adviser: Jonathan Ebba

Erich Lowe  
Horticultural Technology  
*Fertilizer Selection to Maximize Fiber Yields of Industrial Hemp*  
Adviser: Jonathan Ebba

### Thompson School of Applied Science Student Showcase

**Wednesday, April 18**  
11 a.m.–1 p.m.  
Cole Hall, Stacy’s Cafe

At this event, Thompson School of Applied Science students translate academic instruction into practical presentations. Selected students showcase their expertise in such diverse areas as food services management and forest and horticultural technology.

Susanna Bicknell  
Horticultural Technology  
*Salability of Ferns as a Crop Grown “Under-Bench”*  
Adviser: Jonathan Ebba

Megan Grant  
Integrated Agriculture Management  
*Farming Small for the Family: Instilling Values through Family Farming*  
Adviser: Andrew Conroy

The information contained in this program is considered accurate at press time.
Rose Marston  
Horticultural Technology  
Suitability of Recycled Cellulose as a Growing Medium  
Adviser: Jonathan Ebba

Joshua Pires  
Horticultural Technology  
Effects of Media Selection on Growth Parameters of Industrial Hemp  
Adviser: Jonathan Ebba

Abraham Robertson  
Integrated Agriculture Management  
Growing the Customer Base for a Century-Old Dairy  
Adviser: Andrew Conroy

Leann Tsou  
Horticultural Technology  
Feasibility of Goji as a Greenhouse Crop in New Hampshire  
Adviser: Jonathan Ebba

Nathan Zetterberg  
Integrated Agriculture Management  
Farm Fresh from the Roof: Growing a Better Restaurant  
Adviser: Andrew Conroy

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The Naked Arts—Creativity Exposed

Act I

Wednesday, April 18  
Noon–2 p.m.  
Paul Creative Arts Center, Museum of Art

This event exposes the inner creative process of artists working in various disciplines. Presenters will describe the process, research, and other creative aspects undertaken to bring an artistic creation from initial inspiration to the stage or gallery. This may include a performance or excerpts from their work to illustrate their creative scholarship.

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Interdisciplinary Science & Engineering (ISE) Symposium

Poster Presentations

Wednesday, April 18  
1:30–2:30 p.m. Awards Ceremony  
2:30–4 p.m. Open House  
Whittemore Center Arena

The ISE Symposium welcomes and encourages scientific presentations from undergraduate students in all colleges and departments. The event features undergraduate research that contributes to or benefits from an interdisciplinary science and engineering perspective.

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Biology

Group Leader: Wilfred Wollheim

Marissa Anderson  
Genetics, German  
Metabarcoding Investigation of Extensive Dune Grass Die-Off in the Northeast  
Advisers: Gregg Moore, William Thomas

Samantha Bogdahn  
Neuroscience and Behavior  
Testing the Sensory Ability of Canis lupus familiaris to Distinguish between Human Identical Twins  
Adviser: Leslie Curren

Julia Boisselle  
Nutrition  
Relationship between Binge Drinking Frequency and Diet among College Students  
Adviser: Jesse Morrell

Hannah Coco  
Biochemistry, Molecular and Cellular Biology  
Chiral Properties of Carbon Dots Synthesized from Aspartic Acid  
Adviser: Christine Caputo

Stephanie Copeland  
Biomedical Science  
Population Structure and Dispersal of Prairie Warblers in Southern Maine and New Hampshire  
Advisers: Adrienne Kovach, Matthew Tarr

Beau Garcia  
Zoology  
Quantifying the Reproductive Success of a Declining Shrubland-Obligate Songbird, the Prairie Warbler (Setophaga discolor), Breeding in an Active Gravel Pit in Southeastern New Hampshire  
Adviser: Matthew Tarr

Meghan Gillespie  
Rachel Rafferty  
Brooke Soderberg  
Biology  
Measuring Somatic Mutation Rates in the Model Organism (Caenorhabditis elegans) to Further Understand Cancers and Human Disorders  
Adviser: John Collins
Anna Haber  
Genetics  
*Understanding the Role of Polyamines in Rice under Drought and Salt Stress*  
Adviser: Subhash Minocha

Lina Heinrichs  
Biochemistry, Molecular and Cellular Biology  
*Mapping Sediment Microbial Community Structure in the Stellwagen Bank National Marine Sanctuary to Facilitate Functional Genomic Studies*  
Advisers: Semra Aytur, John Bucci

Jessica Hodgkins  
Biomedical Science  
*Antifreeze Proteins: Nature’s Cryoprotectants*  
Adviser: Krisztina Varga

Amanda LeBel  
Neuroscience and Behavior  
*Using Contrast Modulation of Motion-Induced Blindness to Determine Asymmetries of the ON- and OFF-Cell Pathways*  
Adviser: William Stine

Kayla Lent  
Laura Nussbaum  
Wildlife and Conservation Biology  
*How Do Female-Biased Sex Ratios Influence Male Resource Defense Behavior in Hissing Cockroaches?*  
Advisers: Leslie Curren, Daniel Howard

Katherine Loiselle  
Lindsay March  
Colin McGonagle  
Biomedical Science  
*Phylogenetic Diversity of Antibiotic-Producing Streptomycyes Bacteria in the Gut of Lumbricus Earthworms*  
Adviser: Cheryl Andam

Matthew Morris  
Wildlife and Conservation Biology  
*Masking Effect of Anthropogenic Noise in Predatory Detection*  
Adviser: Leslie Curren

Jessica Ohrenberger  
Zoology  
*To Bend, or Not to Bend? Hinged Teeth in the Goosefish (Lophius americanus) Have Multiple Functions and Two Distinct Lever Systems*  
Advisers: Jessica Bolker, Stacy Farina

Nicholas Ritvo  
Genetics  
*Taylor Schwartz*  
Biochemistry, Molecular and Cellular Biology  
*Diversity and Antibiotic Activity of Streptomycyes Bacteria: Searching for Super-Killer Bacterial Strains*  
Adviser: Cheryl Andam

Mary Sherman  
Sustainable Agriculture and Food Systems  
*Evaluation of the After-School Program “Healthy Me, Healthy Earth”*  
Adviser: Joanne Burke

Jacqueline Ritzo  
Biochemistry, Molecular and Cellular Biology  
*Diversity and Antibiotic Activity of Streptomycyes Bacteria: Searching for Super-Killer Bacterial Strains*  
Adviser: Cheryl Andam

Mary Sherman  
Sustainable Agriculture and Food Systems  
*Evaluation of the After-School Program “Healthy Me, Healthy Earth”*  
Adviser: Joanne Burke

Serge Boucher  
Chemical Engineering  
*Observing the Affinity of Nucleotides to Gold under Applied Potential*  
Adviser: Jeffrey Halpern

Brady Camlin  
Bioengineering  
*Development of Oral Universal Influenza Vaccine*  
Adviser: Kang Wu

Daniel Courter  
Olivia Rossi  
Bioengineering  
*Electrochemical and Spectroscopic Study of Peptide-Templated Eumelanin Pigments*  
Adviser: Young Jo Kim

Caroline Houston  
Chemical Engineering  
*Differentiation of Neural Stem Cells into Neurons*  
Adviser: Kyung Jae Jeong

Caroline Ladegard  
Bioengineering  
*Distinguishing Nucleotides Using Electrochemical Impedance Spectroscopy*  
Adviser: Jeffrey Halpern

Rachel Lake  
Chemical Engineering  
*Photocatalytic Decomposition of Phenol in Wastewater Using Nitrogen-Modified Titanium Dioxide*  
Adviser: Nan Yi

Sabrina Marnoto  
Chemical Engineering  
*The Detection of Beta Carotene and Lutein Using Electrochemical Impedance Spectroscopy*  
Adviser: Jeffrey Halpern

Sean McNeill  
Chemical Engineering  
*Mechanistic Studies of Thermal Decomposition of Nickel-Gallium Layered Double Hydroxides*  
Adviser: Nan Yi

Lorenzo Milani  
Chemical Engineering  
*Mechanistic Studies of Thermal Decomposition of Nickel-Gallium Layered Double Hydroxides*  
Adviser: Nan Yi
Altai Perry  
Chemical Engineering  
Characterization and Dynamics of Imidazole-Based Channels in Membranes  
Adviser: Harish Vashisth

Adam Twombly  
Chemical Engineering  
Adviser: Nan Yi

Joseph Verro  
Chemical Engineering  
EcoCat Vehicle Selection Calculator  
Adviser: Stephen Pesci

Matthew Currier  
Chemistry  
Synthesis of Indole-Functionalized Methacrylate Polymers for Investigating Nanoparticle Formation Dynamics  
Adviser: Samuel Pazicni

Katherine Dombroski  
Chemistry  
Towards the Synthesis of a Co(II) Diketo-Pyrphyrin Catalyst for Hydrogen Production from Water  
Adviser: Christine Caputo

Sarah Lachapelle  
Chemistry  
Probing the Macromolecular Environment of Porphyrin-Cored Nanoparticles Using Exogenous Ligands  
Adviser: Samuel Pazicni

Courtney Leo  
Chemistry  
Controlled Synthesis of Single-Chain Nanoparticles under Various Atom Transfer Radical Coupling Conditions  
Adviser: Erik Berda

Zekun Li  
Chemistry  
Effect of Hydrophobic Group on the Untangling Rate of PolyNIPAM  
Adviser: W. Rudolph Seitz

Evangelos Rossis  
Chemistry  
Synthesis of Organic Bifunctional Spacer for the Conjugation of the Octadentate Chelator DFO with Antibodies for 89Zr-Immuno-PET  
Adviser: Roy Planalp

Ian Smith  
Chemistry  
Development of New Fluorescent Materials: Putting Carbon Dots to Work  
Adviser: Christine Caputo

Timothy Tetrault  
Chemistry  
Synthesis of Analouges of Nosokophic Acid  
Adviser: Marc Boudreau

Drew Verrier  
Chemistry  
Synthesis and Characterization of Porphyrin-Cored Polymer Nanoparticles That Incorporate Hydrogen Bonding to Model Hemes  
Adviser: Samuel Pazicni

Thomas Williams  
Chemistry  
Exploring Routes to the Synthesis of Dibenzopentalenes  
Adviser: Richard Johnson

Claudia Willis  
Chemistry  
Synthesis of Single-Chain Nanoparticles via Atom-Transfer Radical Coupling  
Adviser: Erik Berda

Civil & Environmental Engineering—Design  
Group Leader: Anthony Puntin

Yikun Bao  
Environmental Engineering  
Francestown, New Hampshire: Complete Streets  
Adviser: Kyle Kwiatkowski
Jacob Barbieri  
Andrew Blizzard  
Daniel Neubauer  
Michael Perkins  
Civil Engineering  
Town of New Durham, NH—Zechariah Boodey Farmstead  
Adviser: Anthony Puntin

Carl Berg  
Nicholas Bradley  
Paul Lovely  
Casey Wilson  
Civil Engineering  
Salmon Falls Bridge Reconstruction  
Adviser: Raymond Cook

Jonathan Brown  
Civil Engineering, International Affairs  
Graham Fay  
Jonathon Havey  
Civil Engineering  
Morgane Gaudissart  
Environmental Engineering  
Dune Walkover at Hampton Beach State Park  
Advisers: Alyson Eberhardt, Jennifer Jacobs

Dominic Carpentiere  
Derek Gallagher  
Hunter Lawrence  
Haley Nix  
Katharena Racine  
Civil Engineering  
Marine Terminal Improvements for Waste Transport Barge Operations  
Advisers: Raymond Cook, Cheryl Coviello

Samuel Cheney  
Michael Pugsley  
Stephen Valeri  
Civil Engineering  
Western Ave. Bridge—Henniker, NH  
Adviser: Ricardo Medina

Jessica Choiniere  
Environmental Engineering  
Jordan Parent  
Thomas Sachs  
Civil Engineering  
Santa’s Village Pedestrian Crossing  
Adviser: Jo Daniel

Samuel Colombo  
Thomas Labrecque  
Colin McNabb  
Will Rasid  
Civil Engineering  
Kyle Sawicki  
Environmental Engineering  
Hunt Park Redevelopment, Manchester, NH  
Adviser: Anthony Puntin

Brandon Dreyfuss  
Environmental Engineering  
Kevin Gibbons  
Kyaw Zaw Hein  
Samuel Kauhl  
Joseph Labrecque  
Civil Engineering  
Dascomb Road Redevelopment  
Advisers: Rick Friberg, Anthony Puntin, Christopher Raymond

Jasper Jenkins  
Jacob Matys  
Yvette Pujols  
Michael Ramos  
Meghan Sweeney  
Civil Engineering  
Ash Street Bridge Replacement in Londonderry, NH  
Advisers: Erin Bell, Tim Polson

John Lemire  
Daniel Parisi  
Nathaniel Philbrick  
Ryan Welch  
Civil Engineering  
Scott McWhirter  
Environmental Engineering  
Natural Disaster Volunteer Housing—Cargo Container  
Adviser: Robert Henry

Matthew Lortie  
Grant Rosario  
Russel Rucker  
Rachel Trocchi  
Civil Engineering  
Noah Parent  
Environmental Engineering  
Dascomb Road Redevelopment Project  
Advisers: Rick Friberg, Christopher Raymond

Andrew McDonald  
Christopher McGuinness  
Jayse Tyropolis  
Rafael Vieira  
Meghan White  
Environmental Engineering  
Water and Wastewater in AMC Huts  
Adviser: M. Robin Collins

Civil & Environmental Engineering—Innovation & Research

Group Leader: Eshan Dave

Rezwan Ali  
Civil Engineering  
Investigation of Cocopith in Bioretention for Treatment of Nutrients (Nitrogen) from Stormwater Runoff  
Adviser: Thomas Ballestero

Joseph Anatone  
Kimberly Perkins  
James Rochefort  
Erik Rolser  
Civil Engineering  
Physical Modeling of Pavement Performance with Seasonal Moisture Variations  
Advisers: Eshan Dave, Majid Ghayoomi

Tessa Artruc  
Environmental Engineering  
Predicting Sediment Transport in Dam Removal Scenarios  
Adviser: Kevin Gardner

Ethan Beals  
Civil Engineering  
Adrian D’Orlando  
Kai Kleyensteinber  
Abigail McEachern  
Dylan Robbs  
Sarah Viola  
Environmental Engineering  
Evan Poworoznek  
Statistics  
Snare Performance for Submerged Oil Detection and Monitoring  
Adviser: Nancy Kinner
Andrew Burch  
Nicholas DiBartholomeo  
Benjamin Enos  
Patrick Hackett  
Christian Harris  
Shayan Hasan  
Civil Engineering  
3D Printed Concrete  
Advisers: Dan Bernard, Eshan Dave

Danyi Feng  
Sarah Jakositz  
Cassidy Wallitsch  
Zekun Xun  
Environmental Engineering  
Crowdsourced Water Quality Testing at the University of New Hampshire  
Adviser: Weiwei Mo

Morgane Gaudissart  
Environmental Engineering  
A Study on the Potential for Power Grid Resilience in Caribbean Nations Using Micro Hydropower  
Adviser: Kevin Gardner

Katie Haslett  
Civil Engineering  
Evaluation of Cracking Indices for Asphalt Concrete Fracture Behavior  
Advisers: Jo Daniel, Eshan Dave

Katie Haslett  
Shane Majenski  
Civil Engineering  
Highway Infrastructure and LCA  
Advisers: Eshan Dave, Kevin Gardner, Weiwei Mo

Zachary Magee  
Solomon White  
Civil Engineering  
Geo-Wall: Mechanically Stabilized Earth Model  
Adviser: Majid Ghayoomi

Steven Wuebbolt  
Civil Engineering  
Engineered Equestrian Riding Surfaces  
Adviser: Jean Benoit

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<tr>
<th>Civil &amp; Environmental Engineering—Investigation &amp; Assessment</th>
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<td>Group Leader: Majid Ghayoomi</td>
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| Tessa Artruc  
Environmental Engineering |
| Abrahm DeMaio  
Alex Morrell  
Matthew Turner  
Jacob Valinski  
Civil Engineering  
Noanet Pond Dam Rehabilitation  
Adviser: Kevin Gardner |
| Hannah Bailey  
Robert Paro  
Elise Thompson  
Civil Engineering  
Jillian Fanelli  
Rebecca Rilling  
Shannon Stang  
Environmental Engineering  
Climate-Ready Coastal Infrastructure  
Advisers: Diane Foster, Jennifer Jacobs |
| Ross Baker  
Austin Jennings  
Stacy Johnson  
Danielle Kalmbach  
Environmental Engineering  
Billy Kitchens  
Civil Engineering  
Appalachian Mountain Club Huts  
Sanitary Assessment  
Adviser: M. Robin Collins |
| Carolyn Bates  
Scott Beattie  
Adam Cebulski  
Kevin Poulin  
Brian Veazey  
Civil Engineering  
Kyle Parks-Damon  
Environmental Engineering  
West Falmouth, ME Neighborhood Plan  
Adviser: Jean Benoit |

Jenna Bergstrom  
Robert Carr  
Carlii Gavin  
Jeffrey Schafer  
Civil Engineering  
South African Fly Ash in Portland Cement Concrete  
Advisers: Jo Daniel, Eshan Dave, Robert Henry

Rachel Blandford  
Connor Brennan  
Samantha Doyle  
Christopher Wong  
Civil Engineering  
Tower Crane Collapse Investigation  
Advisers: Zachary Chabot, Raymond Cook

Torey Brooks  
Civil Engineering, International Affairs  
Emily Casavant  
Scott Lister  
Steven Luchino  
Civil Engineering  
Commercial Street Study: Arms Park Redevelopment  
Adviser: Ricardo Medina

Ashleigh Gilchrist  
Alexandria Hidrovo  
Christian Rodriguez  
Timothy Sommer  
Environmental Engineering  
Rachel Hastings  
Sean Horigan  
Civil Engineering  
Georgetown, ME Calvert Analysis Project  
Adviser: Nancy Kinner

Colter Krzuik  
Michael Patrick  
Civil Engineering  
Tyler Murray  
Joshua Teixeira  
Environmental Engineering  
Quantitative Analysis of Gilman Pond Reservoir  
Adviser: James Malley
Carolyn Lamb  
Deanna Lambert  
Maddison Ledoux  
Matthew McGuire  
Shannon Ruggieri  
Environmental Engineering  
Post-Closure of the Turnkey Landfill, TLR-II  
Adviser: Kevin Gardner

**Computer Science—Applications**  
**Group Leader:** Betsy Coleman

**Heli Amin**  
Information Technology

**Huy Le**  
Finance, Information Technology  
*Court Documents Mining Pipeline: Liberty Mutual Insurance*  
Advisers: Jane Hillyard, Matthew Magnusson

**Noah Aronson**  
**Camden Tatsapaugh**  
**Evelyn Thompson**  
Information Technology  
*Measuring Albedo (Reflectivity) with Smartphones: A Citizen Science App*  
Adviser: Elizabeth Burakowski

**Matthew Bowden**  
**Tyler Kokoszka**  
**Harrison Pham**  
Computer Science

**Benjamin Fruth**  
Computer Engineering  
*Augmented Reality Charts*  
Advisers: Thomas Butkiewicz, Briana Sullivan

**Kristian Comer**  
**Francesco Alessandro Mikulis-Borsoi**  
Computer Science  
*YouScheduler—Simplified Course Scheduling*  
Adviser: Radim Bartos

**Ryan Daley**  
**Conor Ochs**  
Information Technology

**Andrew Lewis**  
Computer Science  
*Development of a More Functional Pathlete User Profile*  
Adviser: Radim Bartos

**Duncan Fair**  
**Nathan Letourneau**  
Information Technology

**Jeremy Plsek**  
Computer Science  
*Inter-User Chat System for Pathlete’s Social Network*  
Adviser: Radim Bartos

**Steven LeClerc**  
Information Technology, Justice Studies

**Benjamin Pinault**  
Information Technology

**Francisco Santana**  
Computer Science  
*Maximizing Usability of the Pathlete Platform*  
Adviser: Radim Bartos

**Brian Nipper**  
**Andrew Stencavage**  
Information Technology  
*Stock Portfolio Website*  
Adviser: A. Michael Gildersleeve

**Kenneth Picard**  
**Mitchell Stack**  
Information Technology  
*UNH Online Performance Dashboard*  
Advisers: Phani Kidambi, Tracy Mullen Cosker, Anne Surman

**Brandon Smith**  
Computer Science  
*Pathlete: An Online Athletic Recruitment Service*  
Adviser: Radim Bartos

**Todd Gaunt**  
**Ethan Larkham**  
Computer Science  
*Evaluating Rust*  
Adviser: Phillip Hatcher

**Myles Johnson**  
Computer Science  
*Data Pipeline Support for NASA’s Parker Solar Probe*  
Adviser: Jonathan Niehof

**Kyle Kroboth**  
Computer Science  
*Intentional Concurrent Programming*  
Advisers: Michel Charpentier, Phillip Hatcher

**Matin Masimli**  
**Aung Khant Nyar**  
Computer Science

**Travis Nevins**  
Information Technology  
*Network Security AI*  
Advisers: Kenneth Graf, Wheeler Ruml

**Adam Seavey**  
**Thomas Sorrell**  
Computer Science  
*Implementing Intentional Concurrency in jikes RVM*  
Adviser: Phillip Hatcher

**Nicole Sloan**  
**Cameron Smith**  
Computer Science  
*Evaluating Hack*  
Adviser: Phillip Hatcher

**Computer Science—Research**  
**Group Leader:** Collette Powers

**Alexander Brown**  
Computer Science  
*Interpretable Reinforcement Learning with Ensemble Methods*  
Adviser: Marek Petrik

**Paul DeGrazia**  
**Pirro Shtino**  
**Trent Taylor**  
Information Technology  
*Soccer Ball Cybersecurity*  
Adviser: Jon Miner

**Computer Science—Systems**  
**Group Leader:** Phil Hatcher

**Tyler Bedgood**  
**Kirk Sandstrom**  
**Ian Wallace**  
Information Technology  
*Open Source IoT Network Using LoRaWAN*  
Adviser: Christina Dube
James Bowden  
Zachary Ivey  
Information Technology  
Facebook CTF Black Team  
Adviser: Kenneth Graf

Christopher Brown  
Rachel Karp  
Melissa Steinberg  
Jorge Velazquez  
Information Technology  
Living Bridge Database Project  
Adviser: Scott Valcourt

Colin Dorsey  
Computer Science  
NVMe Power State Testing  
Adviser: David Woolf

Zachary Girard  
Information Technology  
Living Bridge Alert System  
Advisers: Ian Gagnon, Collette  
Matthias Powers

Andrew Hebert  
Computer Science  
Indoor Wayfinding for UNH  
Library Resources  
Adviser: Scott Valcourt

Methodius Kpan  
Benjamin Leland  
Information Technology  
NECCDC Black Team  
Adviser: Kenneth Graf

Aaron Morneau  
Computer Science  
Improving the UNH-IOL iSCSI  
Testing Tools  
Adviser: David Woolf

Kathryn Bennett  
Environmental Sciences, Sustainability  
How Can the University of New Hampshire Reduce Its Nitrogen Footprint?  
Adviser: John Aber

Nathan Cleveland  
Environmental Sciences  
Methane in Freshwater Systems  
Adviser: Ruth Varner

Haley Currie  
Earth Sciences  
Metamorphic Pressure and Temperature Path from the Highland Fault Boundary to Findon  
Adviser: Jo Laird

Jeremy Gelinas  
Environmental Sciences  
Analysis of Methane Accumulation in the Old Durham Reservoir during Periods of Ice Cover at Durham, New Hampshire  
Adviser: Ruth Varner

Kyle Hacker  
Environmental Sciences  
Greenhouse Gas Emissions from Headwater Stream Sediments  
Adviser: Wilfred Wollheim

Brian Hauschild  
Environmental Sciences  
Spatial and Temporal Analysis of Historical Water Quality Data in the Lamprey River Watershed  
Adviser: Anne Lightbody

Matthew Healy  
Environmental Sciences  
GIS-Based Modeling of Nitrogen Dynamics in Pawtuckaway Lake Watershed  
Adviser: Anne Lightbody

Liam Kenefic  
Earth Sciences  
Detection of Repeating Earthquakes within the Cascadia Subduction Zone Using 2013-2014 Cascadia Initiative Amphibious Network Data  
Advisers: Susan Bilek, Margaret Boettcher

Tess Murray  
Earth Sciences  
Metamorphism in Glenesk, Scotland  
Adviser: Jo Laird

Tyler Smith  
Earth Sciences  
Constraining the Age of the Fossil-Bearing La Colonia Formation in Patagonia, Argentina Using Magnetostratigraphy  
Adviser: William Clyde

Madison Wood  
Earth Sciences  
Mercury Dynamics in New England Wetlands  
Adviser: Julia Bryce

Earth Sciences/Environmental Sciences

Group Leader: Ruth Varner

Kaitlyn Baillargeon  
Environmental Sciences  
What Is Forest Diversity?  
Adviser: Scott Ollinger

Isabelle Brock  
Max Radermacher  
Electrical Engineering  
Colin Rockwell  
Mechanical Engineering  
Myoelectric-Controlled Prosthetic Hand  
Advisers: Ioannis Korkolis, Richard Messner, Wayne Smith

John Carlson  
Electrical Engineering  
Piezoelectric Crystal Shoe Power  
Adviser: John LaCourse

Sean Couture  
Devon Crawford  
Electrical Engineering  
Ultrasonic Receiver for Power Line  
Noise Isolation  
Adviser: Michael Carter

John Curl-Larson  
Electrical Engineering  
RFID Chessboard  
Adviser: Kent Chamberlin

Samuel Leahy  
Brett Nelson  
Adam O’Neil  
Electrical Engineering  
Displaying Octaves with the Constant-Q Transform  
Adviser: Michael Carter
Joshua Letterman  
Computer Engineering  
Real-Time Sleep Apnea Detection and Mitigation  
Adviser: John Lacroise

Theophile Nkengfack  
Amadou Tall  
Electrical Engineering  
A Miniaturized Wireless Sensing Module for Geotechnical Measurements  
Adviser: Edward Song

Alex Sarasin  
Electrical Engineering  
Improving the Robustness of the UNH Remotely Operated Vehicle  
Advisers: Michael Carter, May-Win Thein

Samantha Sirois  
Electrical Engineering  
Vegetative Voltage Generation  
Adviser: John Lacroise

**Electrical & Computer Engineering—Software/Systems Design**  
Group Leader: Pablo Yoon

Ezequiel Abreu  
Sean Cronin  
Computer Engineering  
Image Processing of Plant Chlorophyll  
Adviser: Richard Messner

Ross Carey  
Electrical Engineering  
Timothy Harry  
Kyle Tierney  
Computer Engineering  
Designing a Solder Reflow Oven  
Adviser: Richard Messner

Alec Crimmin  
Christian Vance  
Electrical Engineering  
Ethan Stewart  
Computer Engineering  
Autonomous Mapping Robot  
Adviser: Se Young Yoon

Justin Devinney  
Eric Ouellette  
Computer Engineering  
Learning Checkers Using TensorFlow  
Adviser: Richard Messner

Ty Kartiganer  
Joel Nkounkou  
Electrical Engineering  
Predicative Intra-Traffic Management and Analysis for Stadium and Venue-Like Spaces  
Adviser: Andrew Kun

Joshua Kuun  
Computer Engineering  
Localization and Visualization of Mobile Devices on the UNH Campus  
Adviser: Nicholas Kirsch

Teagan Northrup  
Anna Snarski  
Electrical Engineering  
EEG and EMG Sensorimotor Measurements to Assess Proprioception Following ACL Reconstruction  
Advisers: Ronald Croce, Wayne Smith

Teagan Northrup  
Chang Ki Sung  
Electrical Engineering  
Quad Swarm Using Feedback Control System  
Adviser: Se Young Yoon

Jason Sisk  
Electrical Engineering  
Faraday Rotation Ammeter  
Advisers: Matthew Argall, Kent Chamberlin

Michael Steed  
Justin Wang  
Electrical Engineering  
Design of Robotic Swarm for Indoor Testing of Cooperative Control Systems  
Adviser: Se Young Yoon

Xihong Su  
Computer Engineering  
Toward a Tool to Evaluate Visual Behavior in Multi-Device Environments  
Adviser: Andrew Kun

Cameron Whitaker  
Electrical Engineering  
The Neptune Project  
Advisers: Kenneth Baldwin, Richard Messner

**Mechanical Engineering—Competition Teams**  
Group Leader: Ivo Nedyalkov

Jonathan Alcantara  
Samuel Shippee  
Computer Science  
Evan Grissino  
Xinglun Li  
Nicholas Long  
Kyle Ouellette  
Kuldeep Prajapati  
Huntington Welch  
Mechanical Engineering  
Nathan Hall  
Electrical Engineering Technology  
Anthony Velte  
Engineering Physics  
Autonomous Quad-Rotor Formation Design  
Adviser: May-Win Thein

Jordan Bates  
Jacob Branchaud  
James Holden  
Mohit Sagar  
Computer Science  
Andrew Dickson  
Timothy Morales  
Ryan Nagelschmidt  
Shelby Strickland  
Mechanical Engineering  
ET-NavSwarm  
Adviser: May-Win Thein
Charles Bauer
Michael Cook
Matthew Diorio
Stephen Gormley
Timothy Levis
Jackson Riedel
Timothy Russell
Michael Rutigliano
Mechanical Engineering
UNH AeroCats—Advanced Team
Adviser: Alireza Ebadi

Scott Bednarz
Trevor Bednash
Kyle Carmichael
Steven Farrell
Erik Garcia
Brendan Grenier
Yagoub Hashim
Hunter Lamphere
Jacob Savoie
Nathan Soucy
Mechanical Engineering
Keith Nason
Electrical Engineering
Brian Rainville
Computer Engineering
UNH Formula SAE
Adviser: Todd Gross

Alexander Bickford
Nathaniel Bissey
Anthony Cafiso
James Fey
Patrick Glynn
Ryan Joaquin
David Knapp
Ryan Pinard
Connor Rose
Nathaniel Steggall
Belinda Vuto
Colin Williamson
Mechanical Engineering
Baja SAE
Adviser: Barbaros Celikkol

Jonah Blum
Dingxin Liu
Nicholas Schott
Ethan Setear
Mechanical Engineering
Annavitte Rand
Civil Engineering
Independent Refugee Shelter—2018
ASHRAE Applied Engineering Challenge
Advisers: Paul Bemis, Ivaylo Nedyalkov, Anthony Puntin

Kevin Bucher
Nicholas Clegg
Charlie Nitschel
Rielly Webb
Mechanical Engineering
Daniel Nemr
Electrical Engineering
SEDs University Student Rocketry Competition
Adviser: Todd Gross

Alex Claire
Katelyn Cronin
Abdul-Rahman Dambazau
Carly Lavender
Patrick MacLea
Brittany Marshall
James Rice
Andrew Stokes
Mechanical Engineering
UNH Aero: RC Cargo Plane
Adviser: Alireza Ebadi

Andrew Ervin
Electrical Engineering
Zhangxi Feng
Cory Greenblatt
Matthew Westbrook
Mechanical Engineering
Bryant Volk
Garrett Wedge
Computer Science
UNH LunaCats—NASA Robotics Mining Competition Team
Advisers: Michael Carter, May-Win Thein

Nicholas Deskur
Electrical Engineering
Johnathon Fonse
Jesse Kelley
Mechanical Engineering
Automated Window Seal Quality Control Machine
Advisers: Michael Carter, Barry Fussell, Saman Nouri

Garrett Faino
Taylor Maniatty
Sean O’Grady
Christopher Steinke
Matthew Walsh
Mechanical Engineering
Timberland PRO Midsole
Adviser: Yaning Li

Kristopher Fargo
Erik Gustafson
Bradley Olsen
Mechanical Engineering
Industrial Application of Time-Sensitive Networking
Adviser: Se Young Yoon

Matthew Gray
Computer Science
Peng Liu
Zhenghao Lu
Carl Stohlberg
Patrick Sullivan
Mechanical Engineering
Symbolic Utility Bot
Adviser: Brad Kinsey

Benjamin Londrigan
Mechanical Engineering
SIG SAUER Rifle Barrel and Bolt Proofing
Adviser: Marko Knezevic

Caroline Quintal
Erik Rockstrom
Kristin Snyder
Mechanical Engineering
Cutting Tool Power Analysis
Advisers: Barry Fussell, Mike Newsky, Jason Pier, Dave Smart

Anthony Young
Mechanical Engineering
Slurry Test Re-Design
Advisers: Kevin Guay, James Krzanowski

Mechanical Engineering—Industry
Group Leader: Ivo Nedyalkov

Daniel Berry
Mechanical Engineering
Water-Flow Analogy Testing of an Involute-Profile Counterflow Heat Exchanger with Crossflow Headers Flow Distribution and Pressure Loss Characteristics
Advisers: Jim Nash, Ivaylo Nedyalkov

Graeme Bignell
Hyenjin Jeong
Michael Locke
Colten Tenney
Mechanical Engineering
Automated Defect Inspection
Advisers: John Graham, Brad Kinsey

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Mechanical Engineering—Research

Group Leader: Ivo Nedyalkov

Reed Bell
Sydney Michalak
Mechanical Engineering
Aerodynamic Forces on Cyclists in Formation
Adviser: Ivo Nedyalkov

Aaron Chapman
Mechanical Engineering
Electromagnetic Compression of Metallic Tubes as an Innovative Manufacturing Process
Adviser: Brad Kinsey

Nicholas Doiron
Samuel Whitmore
Mechanical Engineering
UAV Electronics Cooling System
Adviser: Christopher White

Zhangxi Feng
Mechanical Engineering
Functionally Graded Microstructures with Dream 3D and MatLab
Adviser: Marko Knezevic

Amanda Lee
Francesca Molinari
Business Administration

Keelan McCoole
Entrepreneurial Studies, Information Systems and Business Analytics

Joel Nkounkou
Electrical Engineering

Caroline Quinteral
Kristin Snyder
Mechanical Engineering
Wearable Air Pollution Device for Crowdsourcing Hot Spot Data
Advisers: Barbaros Celikkol, Jeffrey Sohl

Andrew Masters
Mechanical Engineering
Investigation of Motion Cueing Algorithms on the IMS Driving Simulator
Advisers: Jan Böhn, Philipp Erler, Stephan Rinderknecht

Kyle Reisert
James Ripley
Mechanical Engineering
Generating Non-Equilibrium Boundary Layers at High Reynolds Number
Adviser: Christopher White

Ocean Engineering

Group Leader: Ivo Nedyalkov

Cory Baum
Matthew Carey
Perry Craver
Huixiang Li
Mechanical Engineering
HiCAT Water Tunnel Restoration
Advisers: Ivo Nedyalkov, Martin Wosnik

Nicholas Bealo
Kyle Mundorff
Mechanical Engineering
Poseidon Project
Adviser: Thomas Weber

Peter Bowers
Daniel Lamin
Computer Science
Seamus Sargeant

Christopher Urbanski
Mechanical Engineering
Autonomous Surface Vehicle
Adviser: May-Win Thein

Mark Buntserv
Tyler Costa
Michael Schratz
Judas Taylor
Mechanical Engineering

John Yarmas
Information Technology, Business Administration
MV—Marine Vehicle
Adviser: May-Win Thein

Garrett Caisse
Mechanical Engineering
Kevin Strohschneider
Ocean Engineering
Living Bridge: Acoustic Doppler Velocimeter Traversing System and Measurements
Advisers: Kaelin Chancey, Ian Gagnon, Martin Wosnik

Danielle Coombs
Hannah Thomas
Mechanical Engineering
Project OASIS: Optimizing Aquaponic Systems to Improve Sustainability
Advisers: Todd Guerdat, Ivo Nedyalkov

Michelle Domino
Ocean Engineering
Measuring Interfacial Tension between Oil and Water
Adviser: Thomas Weber

Lena Downes
Kimberly Radzelovage
Mechanical Engineering
River Iannaccone
Ocean Engineering
Alex Sarasin
Electrical Engineering
Underwater Remotely Operated Vehicle
Adviser: May-Win Thein

Neil Mistretta
Mechanical Engineering
Jacob Moore
Marine, Estuarine and Freshwater Biology, Sustainability
UNH Sustainable Surf Initiative
Adviser: Ivo Nedyalkov

Physics

Group Leaders: Ningyu Liu and Orly Buchbinder

Tristan Anderson
Physics, French
Low Temperature Thermometry on a Helium Evaporation Fridge
Adviser: Karl Slifer

Tyler Chapman
Engineering Physics
Integration of an NOx PMT Instrument into the G-CHASER Rocket Mission
Adviser: Marc Lessard

Morgan Daly
Physics
Monte Carlo Simulations of Topological Magnetic Materials
Adviser: Jiadong Zang
| Cameron Flynn | **Physics**  
An Ultra-High Vacuum Probe Station for 2D Material Transport and in situ Functionalization  
Adviser: Shawna Hollen |
| Nicholas Lajoie | **Physics, German**  
*Measuring NMR in Different 3D Printed Plastics for Background Polarization Applications*  
Adviser: Elena Long |
| Brent Lawson | **Physics, Chemistry**  
*Combined HERA Analysis on the Exclusive Production of the Phi meson in the ZEUS Detector*  
Adviser: Karl Slifer |
| Benjamin MacDonald | **Physics**  
Determining Atomic Surface Structure Using μLEED IV Dynamic Analysis  
Advisers: Zhongwei Dai, Karsten Pohl |
| Cameron Maillet | **Physics**  
Relationship between Interplanetary Conditions and Rapid Fluctuations in the Geomagnetic Field to Understand the Causes of Geomagnetically-Induced Currents  
Adviser: Noe Lugaz |
| Kellie McGuire | **Physics**  
Preparing Fluoroplastics for 3D Printing  
Adviser: Elena Long |
| Ronny Nguyen | **Physics**  
*X-Ray Sources from the XMM-Newton and the Search for Tidal Disruption Events*  
Adviser: Dacheng Lin |
| Evin O’Shea | **Physics**  
Modeling Momentum Diffusion in the Solar Wind  
Adviser: Benjamin Chandran |
| Derek Phillips | **Engineering Physics**  
Boom Deployment Variable Flywheel  
Adviser: Marc Lessard |
| Aleksandr Sinilov | **Engineering Physics**  
*Production of Scintillation Particle Detectors with Stereolithography-Based 3D Printing*  
Adviser: Elena Long |
| Alex Wright | **Computer Engineering, Physics**  
Space Environment around the International Space Station  
Adviser: Jichun Zhang |

## UNH Manchester URC Computing Technology Projects

### Poster Presentations

**Wednesday, April 18**  
3–5 p.m.  
Pandora Mill, 1st Floor  
88 Commercial St., Manchester

| Ryan Ballard | **Business**  
*Exploring the Use of Raspberry Pi with Python Coding to Open a Garage Door*  
Adviser: Howard Eglowstein |
| Brian Barnes | **Computer Information Systems**  
Hannah Yudkin  
Business, Computer Information Systems  
*Capstone Project: Modeling Group*  
Adviser: Michael Jonas |
| Peter Baronas | **Computer Information Systems**  
Dylan Durand  
Computer Science and Entrepreneurship  
*Capstone Project: Software Group*  
Adviser: Michael Jonas |
| Indra Basnet | **Computer Information Systems**  
Traffic Light Project  
Adviser: Howard Eglowstein |

**Daniel Beitel**  
Computer Information Systems  
*Capstone Project: Experiment Group*  
Adviser: Michael Jonas

**Daniel Beitel**  
Computer Information Systems  
Energize Andover: A Research Project with BACnet  
Adviser: Hong Jin

**Patrick Bittman**  
Brooke Brown  
Naina Prasai  
Computer Information Systems  
Logistical Computing Challenges in Social Media  
Adviser: Earl Labatt Jr.

**Bernard Brown**  
George Harvey  
Computer Science and Entrepreneurship  
Ethan Jarzombek  
General Studies  
Monica Pagliuca  
Computer Information Systems  
Programming Languages  
Adviser: Earl Labatt Jr.

**Wesley Couturier**  
Faruk Durakovic  
Danielle LeBoeuf  
Lamia Mukanovic  
Joshua Young  
Computer Science and Entrepreneurship  
*Capstone Project: Software Group*  
Adviser: Michael Jonas

**Ryan Daigle**  
Undeclared  
Campbell Lindsay  
Computer Information Systems  
Cryptocurrency Mining  
Adviser: Earl Labatt Jr.

**Travis Deschenes**  
Christopher Howell  
Andrea Murphy  
Alexander Tenczar  
Computer Information Systems  
*Smart Phone Evolution: Hardware vs. Software*  
Adviser: Earl Labatt Jr.
UNH Manchester Undergraduate Research Conference

Poster Presentations

Wednesday, April 18
3–5 p.m.
Pandora Mill, Room 201 and
Student Commons
88 Commercial St., Manchester

The UNHM URC Poster Presentations showcase students’ independent research and internship projects, service learning activities and civic engagement projects in the learning lab of the city of Manchester.

Michelle Amiet
Neuropsychology
In-Home Fall Prevention for Older Adults
Adviser: Alison Paglia

Jocelyne Arseneault
Biotechnology
Affinity Purification of Polyclonal Antibodies
Advisers: Kyle MacLea, Stephen Pugh

Allison Atkinson
Communication Arts
Opium Dens in China in the 19th Century: A Social History
Adviser: Kristen Woytonik

Rachel Avery
English, History
Femininity and Aloneness in France: Depictions of Women and Absinthe in Painting 1875-1906
Adviser: Kristen Woytonik

Bryanne Barna
Biological Sciences
Becoming a Licensed Nursing Assistant through LNA Health Careers
Advisers: Patricia Halpin, Stephen Pugh

Shane Deveau
Business
Decoding a Drone
Adviser: Howard Eglowstein

Scott Geilen
Computer Information Systems
Home Security Mockup out of Lego, Raspberry Pi, and Other Small Technologies
Adviser: Howard Eglowstein

Sabra George
Analytics and Data Science
IOT Remote Thermostat
Adviser: Howard Eglowstein

Yashna Giri
Camden Marble
Christopher Nobrega
Daniel Rubin
Computer Information Systems
Capstone Project: Systems Group
Adviser: Michael Jonas

Santiago Gomez
Analytics and Data Science
Systems Fundamentals Semester Project
Adviser: Howard Eglowstein

Yurii Gromakov
Shakunt Rajbhandari
Computer Information Systems
Thomas Jones
Homeland Security
Hardware History
Adviser: Earl Labatt Jr.

Danielle LeBoeuf
Computer Science and Entrepreneurship
Andover High School—Food Computer Using Raspberry Pi and Arduinos
Adviser: Hong Jin

Isaac Marsh
Tri Nguyen
Rosali Salemi
Computer Information Systems
Capstone Project: Data Group
Adviser: Michael Jonas

Isaac Marsh
Computer Information Systems
Internship Experience: Staples Certified Technician
Adviser: Hong Jin

Alek Medic
Undeclared
Project for COMP 430
Adviser: Howard Eglowstein

Lamia Mukanovic
Computer Science and Entrepreneurship
Internship Experience: Learning about Chime for Lync
Adviser: Hong Jin

Tri Nguyen
Computer Information Systems
Web Designing and Graphic Designing Internship at U.S.S. LLC
Adviser: Hong Jin

Aushy Pokharel
Business
Motion Alarm System with Remote Alerting
Adviser: Howard Eglowstein

Jake Richards
Computer Information Systems
Creating Home Automation Using Raspberry Pi and Python
Adviser: Howard Eglowstein

Daniel Rubin
Computer Information Systems
COMP 690 Internship Experience
Adviser: Hong Jin

Andrew Ryder
Computer Information Systems
Shared Resource Status Monitor
Adviser: Howard Eglowstein

Connor Tess
Analytics and Data Science
Morse Code System
Adviser: Howard Eglowstein

Stephan Thibault
Computer Information Systems
Energize Andover and Andover Public School System BACnet Project
Adviser: Hong Jin

John Vey
Computer Information Systems
Independent Study—Digital Data Visualizations for TBI/Mental Health Therapies
Adviser: Timothy Chadwick

John Vey
Computer Information Systems
Internship Experience: Grobotics Engineering LLC
Adviser: Hong Jin
Audrey Beaudoin  
Biology  
Emily Fifty  
Psychology  
*Eating Habits of Commuter College Students*  
Adviser: Alison Paglia

Ashley Bensmiller  
Psychology  
*Assessment of Employees' Stress-Management Strategies*  
Adviser: Alison Paglia

Bonnie Burke  
Biology  
*Cardiac Heart Rhythms*  
Adviser: Barbara Jago

Hannah Curran  
Neuropsychology  
*Barriers to Referring Pediatric Patients to Mental Health Services*  
Adviser: Nicholas Mian

Samy Daghir  
Psychology  
*Competing Neural Events of Motion-Induced Blindness under Depth Conditions*  
Adviser: John Sparrow

Kelsie Duggan  
Biotechnology  
*Anti-Tobacco Campaigns through the 20th Century: England and America's Journey*  
Adviser: Kristen Woytonik

Zerina Dulas  
Biological Sciences  
*Job Shadowing a Dermatology Physician Assistant*  
Adviser: Stephen Pugh

William Duval  
Politics and Society  
*What Is the Estate Tax?*  
Adviser: Stephen Pimpare

Emma Fairbank  
Communication Arts  
*MDMA and Its Link to the AIDS Crisis*  
Adviser: Kristen Woytonik

Rodion Fedorov  
Biotechnology  
*Effects of Doxycycline on E2F7 in Pancreatic Cancer Cells*  
Adviser: Stephen Pugh

Amanda Feeney  
Psychology  
*Mindfulness: An Early Intervention*  
Adviser: Alison Paglia

Alexandra Ferguson  
Biological Sciences  
*Animal Health at a Family-Owned Farm*  
Advisers: Kyle MacLea, Stephen Pugh

Valerie Fernandez  
Biology  
*Occupational Therapy Shadowing: Comparing Outpatient Pediatrics and School Setting Therapy*  
Advisers: Kyle MacLea, Stephen Pugh

Alicia Finney  
Biological Sciences  
*Characterization of the Role of ARNTL2 in Malignant Pancreatic Ductal Cells*  
Advisers: Kristen Johnson, Stephen Pugh

Alicia Finney  
Biological Sciences  
*Comprehensive Analysis of New Hampshire Public School Lunches*  
Advisers: Stephen Pimpare, Stephen Pugh

Emma Ghilardi  
Homeland Security, Psychology  
*An Evaluation of Smokers' Stigmatization Experiences*  
Adviser: Alison Paglia

Taylor Gilliam  
Politics and Society  
*Internship with Desmarais Law Group in Manchester, New Hampshire*  
Adviser: Stephen Pimpare

Abigail Goen  
Biological Sciences  
*Sequencing and Cataloging the Microbial Genomics of Kurthia sibirica and Kurthia zopfii*  
Adviser: Kyle MacLea

Santiago Gomez  
Analytics and Data Science  
*Neural Networks and Deep Learning*  
Adviser: Jeremiah Johnson

Hannah Jore  
Neuropsychology  
*Bearded Dragon Vision*  
Adviser: John Sparrow

Haley Kalil  
Biological Sciences  
*Neonatal Abstinence Syndrome (NAS)*  
Advisers: Sarah Prescott, Stephen Pugh

Ryan Kiessling  
Business  
*The Cost of Cocaine in South America*  
Adviser: Kristen Woytonik

Stacey Kulas  
Psychology  
*The Impact of Homelessness on Families*  
Advisers: Nicholas Mian, Alison Paglia

Donna Laferriere  
Biological Sciences  
*Evolution of a Database*  
Advisers: Patricia Halpin, Stephen Pugh

Alleta Lanoue  
Biological Sciences  
*Papillomavirus Prevention*  
Adviser: Kyle MacLea

Mikova Marquis  
Politics and Society  
*International Copyright Infringement*  
Adviser: Stephen Pimpare

Elizabeth Maurais  
Biotechnology  
*Effect of Reduced FOXN2 Gene Expression in Transformed Panc-1 Cells*  
Adviser: Kristen Johnson

Claudia Maynard  
Biotechnology  
*Influences on Clinical Decision-Making in Medicine for Child Mental Health Problems*  
Adviser: Stephen Pimpare

Jacob Maynard  
History  
*Use of Imagery in Tobacco Ads in America and Mexico during the 1950s*  
Adviser: Kristen Woytonik

Andrew McElroy  
History  
*The Crack Cocaine Epidemic of the 1980s*  
Adviser: Kristen Woytonik
Thomas McPhee  
Politics and Society  
The Effects of Raising the Minimum Wage in New Hampshire  
Adviser: Stephen Pimpare

Adam Mercer  
Biological Sciences  
Nootropics and Substance Abuse  
Adviser: Sarah Prescott

Alden Milton  
Biological Sciences  
EMT Clinical Experiences  
Advisers: Sarah Prescott, Stephen Pugh

Cynthia Nicolosi  
Biology  
Making the Transition: Concord Hospice House  
Adviser: Stephen Pugh

Justen Norcott  
Politics and Society  
Development and Foreign Aid in the Middle East and North Africa  
Adviser: Stephen Pugh

Madisson Oliwa  
Biotechnology  
Downregulation of DCBLD2 Gene Expression in Pancreatic Ductal Adenocarcinoma Using RNAi  
Adviser: Kristen Johnson

Madisson Oliwa  
Biotechnology  
New Hampshire Opioid Epidemic and Needle Exchange Program Advocacy  
Adviser: Alison Paglia

Monal Patel  
Biological Sciences  
An Opportunity to Gain Experience in the Field of Optometry  
Advisers: Kyle MacLea, Stephen Pugh

Allison Payne  
Politics and Society  
Decriminalizing Domestic Violence  
Adviser: Stephen Pimpare

Nikol Petrosova  
Biological Sciences  
PA Shadowing Experience  
Advisers: Kyle MacLea, Stephen Pugh

Gabriela Piercy  
Communication Arts  
Roots to Ruins: Cambodia’s Growing Black Market and Environmental Crisis  
Adviser: Kristen Woytonik

Connor Pinkham  
Homeland Security  
From Prescription to Addiction: How the Over-Prescribing of Opioids Has Led to the Heroin Epidemic of the United States  
Adviser: Kristen Woytonik

Timothy Pion  
Biology  
The Biology and Behavior of Largemouth Bass  
Adviser: Stephen Pugh

Sarah Poirier  
Biotechnology  
C. difficile Infection Prevention  
Advisers: Kyle MacLea, Stephen Pugh

Audrey Rose  
Biotechnology  
Exploring Clinical-Based Healthcare through LNA Certification  
Advisers: Kyle MacLea, Stephen Pugh

Madison Russo  
Biotechnology  
Health Care Is a Right  
Adviser: Stephen Pugh

Colin Schnable  
Undeclared  
Mind Control: The MK Ultra LSD Experiments  
Adviser: Kristen Woytonik

Karl Todt  
Political Science  
Legal Process: Medical Malpractice Law le  
Adviser: Stephen Pimpare

Juliette West  
Biology  
Hashimoto’s Disease  
Adviser: Stephen Pugh

Alexander Williams  
Biotechnology  
Life in the Laboratory of a Major Regional Hospital  
Adviser: Kyle MacLea

Peter T. Paul College of Business and Economics Undergraduate Research Conference

Poster Presentations

Thursday, April 19
9 a.m.–2:30 p.m.
Peter T. Paul College Building

Through original research and valuable guidance from mentors, this event helps Paul College students gain deeper academic knowledge as well as professional experience. This URC event includes poster presentations, oral presentations, and feedback from University and business leaders.

Paul College, Great Hall and Room G45
9–10:30 a.m.

Business, Government, and Society Poster Presentations

Adviser: Yusi Turell

Sydney April  
Business Administration, Information Systems and Business Analytics, Management  
TOMS® Shoes: Are They Helping or Hurting?

Brandilynn Barker  
Information Systems and Business Analytics, Management  
Drug Addiction Impacting Businesses: How Organizations Like Face It TOGETHER Are Helping to Improve the Economy

Sophia Bastone  
Management, Marketing  
The Effect AirBnB Has on Affordable Housing in New York City

Samantha Blaine  
Management, Marketing  
Maternal Healthcare and Technology in Underdeveloped Countries: Johnson & Johnson
Meghan Chines  
Management  
Deforestation in the Amazon and Its Effects on Business, Government, and Society at Large

Daniel Cuddy  
Finance, Management  
Sugar in Sports Drinks: How Gatorade Is Responding to the Backlash against Added Sugar

Jessica DeMarco  
Management, Marketing  
Patagonia and the Growth of Sustainable Apparel

Jaylyn Eaton  
Management, Marketing  
Getting Back to Our Roots: Connecting Small Farms with Local Restaurants in the 21st Century

Brianna Ferraro  
Management  
Walmart and Overseas Sweatshop Conditions

Henrique Ferreira  
Management, Marketing  
The Impacts of Fast Food Franchises in Kuwait

Katelin Fischer  
Management, Marketing  
UNH Parking Issues and High Fines

Thomas Freni  
Management  
Truck Regulation: Are All Truck Drivers Following Regulations Set by the Government?

Emily Grone  
Management, Marketing  
Can Small Businesses Compete against Amazon in the Digital Age?

Ian Heath  
Management, Marketing  
Laws of Marijuana Affecting Businesses and Society

Callen Hunter  
Management  
Burt’s Bees: How Companies Can Act Proactively to Prevent Species Degradation

Cameron Jessup  
Accounting, Management  
Bullying and the Costs to Business and Society

Abigail Kourafas  
Business Administration, Management  
Gravity Payments: How Business is Fighting Back against the Low Federal Minimum Wage

Yueheng Liang  
Management  
Sustainable Business Practice in the Leroy Seafood Group

Connor McCall  
Business Administration, Finance, Management  
America’s Retirement Crisis: How Can We Help a Lagging Generation Prepare for Retirement?

Delaina McCarthy  
Management  
Artificial Intelligence Distress Assistant (AIDA): Providing Survivors a Safe Place without the Wait

Kristin McManus  
Finance, Management  
The Sharing Economy: Will Uber Succeed?

Holly McWalter  
Management, Marketing  
The New Hampshire Women’s Foundation: The Fight for Equal Pay

Owen Mellick  
Finance, Management  
GivePower for More Power

Melanie Murphy  
Finance, Management  
Saving Lives: The Campaign to Stop Gun Suicide

Thomas O’Brien  
Management  
The Pentagon and the Defense Industry: How the F-35 Became the Most Expensive Military Program in History

David O’Connor  
Management, Marketing  
Alternative Forms of Sustainable Energy: Putting an End to ExxonMobil’s Damage to the Environment

Tyler Racine  
Finance, Management  
Regulating Genetic Engineering: Where Is the Line in Genetic Modification of Human Embryos?

David Ricard  
Management  
Electric Cars and the Growth of Accessible Sustainable Charging Stations

Mia Sarowsky  
Management, Marketing  
Pollution: The Battle over Plastic Waste and How Certain States Are Approaching It

Isaiah Singer  
Management, Marketing  
Cause and Effects of the National Anthem Protests in the NFL

Deryn Smith  
Health Management and Policy, Management  
Globalization and Its Effect on Human Rights

Nicholas Tougias  
Business Administration  
Walmart’s Global Operation and Its Impact on the U.S. Economy

Peter Wheatley  
Business Administration  
Microfinance and the Challenges Individuals Face When Starting Their Own Organizations

Paul College, Second Floor
Graduate Lounge
9–10:30 a.m.

EcoGastronomy Poster Presentations

George Bolosky  
Ecoastronomy, Sustainable Agriculture and Food Systems  
A Guide to Preserving: A Lost Art in New Hampshire  
Advisers: Iago Hale, Daniel Winans

Karli Chouinard  
Ecoastronomy, Hospitality Management  
State Street Cafe: A Sustainable and Locally Sourced Bakery  
Adviser: Daniel Winans
Bekah Diamond-Bier  
Ecogastronomy, Sustainable Agriculture and Food Systems  
Fair Trade Certification: Impact on Communities  
Adviser: Daniel Winans

Colleen Driscoll  
Ecogastronomy, Nutrition  
Go with Your Gut: Reducing Anxiety and Improving Gut Microbiome Health through Food Choices  
Adviser: Daniel Winans

Chloe Ellert  
Communication, Ecogastronomy  
Feeding Your Depression: The Link Between Your Gut, Your Brain, and Your Emotions  
Adviser: Daniel Winans

Emily Lane  
Ecogastronomy, Sustainable Agriculture and Food Systems  
Andrew Rogers  
Ecogastronomy, Hospitality Management  
Tyler Smith  
Community and Environmental Planning, Ecogastronomy  
MUB Market: Winter Farmers’ Market at UNH  
Adviser: Daniel Winans

Victoria Lorvig  
Ecogastronomy, Economics  
Enthusiasm for Fair Trade: Why the U.K. Outshines the U.S.  
Adviser: Daniel Winans

Rachelle McKeown  
Ecogastronomy, English  
Points of Intervention: Coordinating a Food Resource Fair  
Adviser: Daniel Winans

Elinor Purrier  
Ecogastronomy, Nutrition  
Cows in the Classroom: Dairy Education for Elementary Students  
Adviser: Daniel Winans

Genevieve Wolfe  
Ecogastronomy, Hospitality Management  
Terroir: Comparing Old World and New World Wine  
Adviser: Daniel Winans

Paul College, Second Floor  
Graduate Lounge  
11 a.m.–12:30 p.m.

Bachelor of Arts in Economics, Session I

Adviser: Aziz Saglam

Marina Bowie  
Economics, Sustainability  
Using the Travel Cost Method to Measure Impacts of Climate Change on New England Hiking Tourism

Evelyn Brown  
Economics  
Space Exploration: Costs and Benefits

Joshua Carroll  
Economics  
Oil Prices and the Economy

Ian Elmslie  
Economics  
Drug Prohibition: Social and Economic Effects

Abby Geel  
Economics  
Artificial Intelligence and the Future of Jobs

Christopher Giuliano  
Economics  
Impact of Microfinance

Samuel Greenwald  
Economics  
Smartphone Industry, Economic Growth, and Globalization

Eric Guba  
Economics, History  
War and Economy: Growth from Disaster?

Ryan King  
Economics  
Economic Returns of Nutritional Reform

Valery Korin  
Economics  
Impact of Decentralized Financial System on the Economy

Alexis LaChapelle  
Economics  
Is Hosting the Olympics Economically Feasible?

Tucker Lippold  
Economics  
Economic Effects of Hurricanes

Anna Lussier  
Economics, History  
Exclusionary Economic Zoning

Thomas Maguire  
Economics, Management  
Renewable Energy Markets

Claire McCarthy  
Economics, International Affairs  
Permit Trading Systems: California and Europe

Matthew McGorty  
Economics  
Income Inequality and Crime

Julianne Silk  
Economics  
Health Care Market: U.S. and Europe

Grant Smith  
Economics  
Economic and Social Effects of Casinos

Sydney Speaks  
Economics  
Social Welfare System and Low-Income Workers

Valery Korin  
Economics, History  
School Choice and Student Achievement

Stephen Taylor  
Economics, Marketing  
Cryptocurrency and Monetary Policy

Sergii Tcharkovski  
Economics  
Fighting Poverty in the U.S.: Government Programs

Andrew Tsan  
Economics  
Technological Change and Economic Growth

Bradley White  
Economics, Finance  
Health Care Spending in the U.S.
Paul College, Great Hall
11 a.m.–12:30 p.m.

Bachelor of Science in Economics
Adviser: Aziz Saglam
Slater Boothroyd
Economics
Renewable Energy Consumption and Economic Growth

Ryan Buckley
Economics
Economic Impact of the Newly Constructed Sports Stadiums

Haemee Choi
Economics
Economic Analysis of Female Professional Gaming

Maxwell Clements
Economics
Marijuana Legalization: Effects on the Housing Market

Maximilian Hochschwender
Economics
Ubernomics: Economic Efficiency of the Rideshare Market

Justin Kissell
Economics
Tax Reform and Its Effects

Andrew Lalli
Economics
Soft Diplomacy and Trade

Victoria Lorvig
Ecogastronomy, Economics
Preferences for Produce: A Comparison of Organic and Local

Myles Marchand
Economics
Fiscal Austerity: Short-Term and Long-Term Implications

Angelyn Masters
Economics, Sustainability
Gender Pay Discrimination in Athletics

Jay Mousseau
Economics
Effects of Minimum Drinking Age Laws on the Mortality Rates

Phuoc Thien Anh Nguyen
Economics, Mathematics
Corruption and Inward Foreign Direct Investment: A Panel Analysis in Asia

Gina Occhipinti
Economics
The Sharing Economy: A Good Substitute for Incumbent Firms?

Marissa Parker
Economics
Factors Affecting Arts Attendance

Thomas Perkins
Economics
Impact of Social Media on Relationships in Different Age Groups

Michael Polizzotti
Economics
The Amazon Effect: Fulfillment Centers and Local Communities

Joshua Price
Economics
Saving for a Stable Retirement

Joshua Roberge
Economics
Opioid Medication and the Heroin Epidemic

William Santora
Economics
Economic Effects of the Legalization of Marijuana

Gregory Servaes
Economics
Economic Analysis of the Salaries of NBA Players

Michael Simpson
Business Administration
Presidential Tweets: Impact on the U.S. Economy

Joseph Taglilatela
Economics
Decreasing Birth Rates, Labor Market, and Immigration Policies

Benjamin Vitale
Economics
Funding High School Athletics Programs

Andrew Ware
Economics, Philosophy
Automation and Productivity Growth

Logan Whalley
Economics
Net Neutrality and the Telecommunications Industry

Peter White
Economics
Student Loans, Household Consumption, and Savings

Charles White
Economics
The Wage and Employment Dynamics of Minimum Wage Workers

Chandler Wishart
Economics
Econometric Analysis of the National Hockey League and Fan Attendance

Paul College, Second Floor
Graduate Lounge
1–2:30 p.m.

Bachelor of Arts in Economics, Session II
Adviser: Robert Mohr
Kyle Bairos
Economics
Does the Minimum Wage Help the Working Poor?

Samantha Barrett
Economics
The Economic Burden of Opioid Abuse in Massachusetts

QiQi Chen
Economics
A Study of the Financial Crisis of 2007-2009: Housing Crisis and Mortgage Crisis

Isaiah Bickham
Economics
How Financial Aid to Low-Income Students Affects Academic Performance

Brian Cotillo
Business Administration, Economics, Finance
The 2008 Financial Crisis: Effectiveness of Government Intervention
## Poster Presentations

**Connor Courtwright**  
Economics, Finance  
*Economic Impacts of a Manipulated Minimum Wage*

**Derek Fung**  
Economics  
*Cryptocurrency and Inflation*

**Connor Garside**  
Economics  
*Understanding the Trend behind Increasing Income Inequality*

**Amanda Haraden**  
Economics  
*Parental Leave and Labor Supply*

**Christopher Hayden**  
Economics  
*Economics of Legalizing Prostitution*

**Huaiyu Kang**  
Economics  
*Delegated Purchases and the Gray Market*

**Rebecca Kendall**  
Economics  
*Impact of Immigration on Northern New England*

**Cory Melnick**  
Economics, Finance  
*Index Funds: Practical Investing for the Un-American?*

**Lukas Moeri**  
Economics  
*Economics and Urban Planning: Boston 2030*

**Samuel Paris**  
Economics, Management  
*Effects of Healthcare Systems on Household Inequality*

**Justin Poisson**  
Economics, International Affairs  
*Helmetless Motorcyclists: A Fiscal Death Wish?*

**Stephen Polhemus**  
Economics  
*Economics of Building a New Casino*

**Patrick Radford**  
Economics  
*An Economic Analysis of Solar Panels in Public Policy*

**William Schernock**  
Economics  
*The Effects of Enacting the Trans-Pacific Partnership on the Automotive Industry*

**Chelsey Scovil**  
Economics, International Affairs  
*Comparative Analysis of Drug Policies around the World*

**Seth Wyskiel**  
Economics  
*Economic Analysis of New England Fisheries and Their Effect on Tourism*

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### Paul College, Great Hall  
1–2:30 p.m.

**Multidisciplinary Poster Session**

**Kathryn Aiken**  
Business Administration  
*A Better Model for Making Maple Syrup*  
Adviser: Andrew Earle

**Nicholas Bouchard**  
Accounting, Business Administration, Finance  
*The Market Reaction to Employee Bonuses Derived from Tax Reform Synergies*  
Adviser: Stephen Ciccone

**Marina Bowie**  
Economics, Sustainability  
*Assessing the Economic Impacts of Climate Change on New England Outdoor Recreation and Tourism*  
Adviser: Robert Mohr

**Scott Brockelbank**  
Business Administration  
*How Cryptocurrencies Will Affect Recovery Efforts in a Recession*  
Adviser: Stephan Shipe

**Venus Chau**  
Business Administration, Information Systems and Business Analytics

**Elliot Judware**  
Information Systems and Business Analytics, Sustainability

**Sean McLaughlin**  
Information Systems and Business Analytics

**Maria Spanos**  
Business Administration, Information Systems and Business Analytics, Management

**Billington Tong**  
Business Administration, Finance, Information Systems and Business Analytics  
*Supply Chain Visualization for Global Aquaculture Alliance*  
Adviser: Russell Miles

**Quinn Connelly**  
Information Systems and Business Analytics  
*NFL and NBA Fan Base Comparison and Analysis*  
Adviser: Billur Akdeniz

**Patrick Doyle**  
Finance, Information Systems and Business Analytics

**Eric Gosselin**  
Information Systems and Business Analytics  
*Cryptocurrency Disrupting Global Economy*  
Adviser: Kholekile Gwebu

**Kayla Farren**  
Finance, Marketing  
*Sports Celebrity Influence on the Behavioral Intentions of Generation Z*  
Adviser: Nelson Barber

**Matthew French**  
Finance, International Business and Economics  
*Labor Migration and the Effect on EPL Wages*  
Adviser: Loris Rubini

**Jack Goss**  
Entrepreneurial Studies, Marketing

**Andrew Grondin**  
Entrepreneurial Studies, Information Systems and Business Analytics  
*popUlace: A Better Ticketing Experience*  
Adviser: Kholekile Gwebu
Kara Grandmaison  
Psychology  
Challenging "Convenience" Samples: Work Motivation in Student vs. Full-Time Employees  
Adviser: Jennifer Griffith

Jacquelyn Grinnell  
Business Administration, Finance, Marketing  
The Role of Self-Esteem on Brand-Switching Behavior  
Adviser: Danielle Brick

Claire Hawkes  
Finance  
Department of Labor Fiduciary Rule: How Will It Affect Financial Planners and Their Clients?  
Adviser: Caitlin DeSoye

Victoria Lorvig  
Ecogastronomy, Economics  
Preferences for Organic Food: Comparison of New Hampshire and Vermont Consumers  
Adviser: Ju-Chin Huang

Samantha Mello  
Business Administration, Finance, Information Systems and Business Analytics  
Data Breaches in Higher Education Institutions  
Adviser: Kholekile Gwebu

Cory Melnick  
Economics, Finance  
The Fundamental Flaws of Bitcoin  
Adviser: Stephen Ciccone

Pamela Merriman  
Information Systems and Business Analytics, Marketing  
Transference of Brand and Celebrity Associations  
Adviser: Bruce Pfeiffer

Phuoc Thien Anh Nguyen  
Economics, Mathematics  
Microfinance and Women's Empowerment: An Empirical Evidence in Vietnam  
Adviser: Michael Swack

Justin Poisson  
Economics, International Affairs  
Remittances and India: A Factor for Economic Growth?  
Adviser: Yin Germaschewski

Jack Porter  
Business Administration, Finance, Information Systems and Business Analytics  
Predictive Analytics for Student Loan Default Behavior: Understanding the Individual Features Separating Those Who Will Pay Back  
Adviser: Seyed Ali Hojjat

Heather Price  
Hospitality Management  
Do Hotel Guests Act According to Their Intentions as It Relates to Sustainability?  
Adviser: Nelson Barber

Caley Prunier  
Finance, Information Systems and Business Analytics  
Mutual Fund Performance by Gender  
Adviser: Stephan Shipe

Malia Roberto  
Accounting, Management  
Tax Abatements Given from Local and State Governments to Businesses: Disclosure's Effect on Transparency  
Adviser: Linda Ragland

Ashley Scimone  
Finance, Marketing  
Off-Price Retail Consumer Profiles  
Adviser: Lin Guo

Jessica Selensky  
Accounting  
Perceived Influence of Ethics Education on Making Judgments and Decisions in Business  
Adviser: Linda Ragland

Courtney Shaw  
Information Systems and Business Analytics, Marketing  
Why Do Makers Make? Examining Designer Motivations on Thingiverse.com  
Adviser: Matthew O'Hern

Drew Sullivan  
Information Systems and Business Analytics  
Factors That Influence Millennials' Willingness to Share Sensitive Personal Data  
Adviser: Kholekile Gwebu

Peter T. Paul College of Business and Economics  
Undergraduate Research Conference

Oral Presentations

Thursday, April 19  
11:10 a.m.–2 p.m.  
Peter T. Paul College Building

Through original research and valuable guidance from mentors, this event helps Paul College students gain deeper academic knowledge as well as professional experience. This URC event includes poster presentations, oral presentations, and feedback from University and business leaders.

Paul College, Room G25  
11:10 a.m.–12:30 p.m.

Mel Rines Angel Investment Fund

Adviser: Jeffrey Sohl

Kathryn Aiken  
Samantha Carlen  
Trevor Deane  
Zachary Doss  
Zachary Dresser  
Travis Hurley  
Ibrahim Intiaz  
Michael Kaichen  
Arsalan Khan  
Amanda Lee  
Christopher Leondires  
Michael McCarthy  
Devin McMahon  
Francesca Molinari  
Ky Duyen Nguyen  
Matthew Norman  
Matthew Ross  
Nicholas Stuart  
Jameson Whiteley

Business Administration  
Patrick Doyle  
Finance, Information Systems and Business Analytics
Tristan Evarts  
Chemical Engineering  
Sean Hickey  
Accounting  
Colin Small  
Dylan Wheeler  
Computer Science  
Andrew Ware  
Economics, Philosophy  
Peter White  
Economics  
Rachel Yee  
Biochemistry, Molecular and Cellular Biology  

Paul College, Room 115  
12:40–2 p.m.  

Atkins Investment Group  
Advisers: Stephen Ciccone and Ahmad Etebari  
Charles Andes  
Accounting, Finance  
Cameron Bean  
Devin Cahill  
William Cavanaugh  
Maxwell Craig  
Jeremy Dorrell  
John Evans  
Andre Filadelfo  
Zachary Fitzgerald  
Claire Hawkes  
Logan Hoffman  
Patrick Kelsey  
Aaron LeLacheur  
Julie Montgomery  
Cullen Moore  
Eric Munson  
Kevin Murphy  
Luke Palmer  
Sean Ray  
Brian Rivet  
Brennan Ross  
Anthony Santosuosso  
William Saunders  
Nicholas Savoia  
Caroline Schmidt  
Hanzla Sheikh  
Patrick Thompson  
Austin Wildes  
Jake Yennaco  
Finance  

Michael Bechtold  
Entrepreneurial Studies  
Nicholas Bouchard  
Accounting, Business Administration, Finance  
Kelley Brennan  
Alexys Gilcreast  
Jessica Selensky  
David Selmer  
Accounting  
Scott Brockelbank  
Business Administration  
Eliot Coulter  
Applied Mathematics  
Matthew French  
Finance, International Business and Economics  
Ciaran Mahon  
Mathematics  
Taylor McDonald  
Psychology  
Amelia Milonas  
International Business and Economics  
Charles White  
Economics  

Paul College, Rooms 165, 175, 185, and 215  
12:40–2 p.m.  

Marketing Workshop Oral Presentations  
Adviser: Peter Masucci  
Lindsey Andrulevich  
Marketing  
Kevin Johnson  
Erin Marceau  
Tyalar Pitta  
Mia Sarowsky  
Management, Marketing  
Vincent Sparacino  
Finance, Marketing  
Werner Traut  
German, Marketing  
NH Lodging and Restaurant Association: Design and Develop Marketing Programs to Increase Awareness of and Grow Membership in This State-Wide Professional Organization  

Nicholas Bailey  
Communication, Marketing  
Bronte Biron  
Brian Holmes  
Charlee O’Neil  
Mathew Paulson  
Marketing  
Elizabeth Gourinovitch  
Economics, Marketing  
David O’Connor  
Management, Marketing  
Wells Reserve at Laudholm Farm: Research and Development of Marketing Programs Aimed at Increasing Awareness of the Science Being Conducted at This Wells, Maine, Coastal Research Center  

Sophia Bastone  
Isaiah Singer  
Management, Marketing  
Michael Decker  
Michael Knight  
Entrepreneurial Studies, Marketing  
Morgan Finniss  
Parker Gray  
Eden Popek  
Marketing  
Jake Paschal  
Finance, Marketing  
Vera Roasting Co.: Research and Development of Marketing Programs Aimed at Increasing Awareness and Sales of This Heart-Healthy Coffee Producer  

Nicole Binney  
Matthew Howard  
Devan Miller  
Jenna Stickel  
Finance, Marketing  
Logan Blake  
Christa Jimenez  
Marketing  
Jack Goss  
Entrepreneurial Studies, Marketing  
Timberland—Apparel Team: Research, Design, and Develop Marketing Programs to Help Build Market Share for Timberland’s Line of Apparel
Julia Bjorkman
Information Systems and Business Analytics, Marketing

Blake Carrico
Grant Castignola
Megan Hydorn
Sydney San Antonio
Marketing

Colin Martens
Haley Slack
Finance, Marketing

Timberland—Trades Team: Research and Develop Marketing Programs to Help the Company Build Timberland PRO Brand Loyalty among Workers in the Trades

Rachel Blackwell
Nicholas Schlosstein
Nicholas Silvia
Marketing

Sarah Heath
Peter Martens
Reilly Williams
Finance, Marketing

Caroline Muse
Information Systems and Business Analytics, Marketing

Revision Military: Research and Development of a Marketing Program to Promote and Manage Corporate Philanthropic Giving

Samantha Blaine
Jaylyn Eaton
Erin Kelley
Management, Marketing

Michael Giannone
Olivia Legendre
Finance, Marketing

Morgan Kennedy
Timothy Mahoney
Marketing

Shoals Marine Lab: Research and Development of Marketing Programs to Increase Awareness of and Registrations for the Science Courses Offered at This UNH-Affiliated Marine Lab on Appledore Island

Nicholas Blais
Rachel Pryune
Marketing

William Bradley
Marketing, Political Science

Nicholas LoConte
Entrepreneurial Studies, Marketing

Robin Mosher
Nicholas Reynolds
Management, Marketing

Courtney Shaw
Information Systems and Business Analytics, Marketing

Paul College Entrepreneurial Studies Program: Research and Development of Marketing Programs to Increase Awareness of and Interest in Selecting This Course of Study Option at the College

Katie Bostridge
Information Systems and Business Analytics, Marketing

Christina Cunningham
Kevin Kekejian
Courtney Lamers
Darren Sayer
Marketing

John Dray
Mackenzie Galli
Management, Marketing

NH Fire Academy and EMS: Research, Design, and Development of Marketing Programs to Increase Awareness of and Participation in the Educational and Practical Training Programs Offered by the Academy

Alexis Brais
Robert Burnett
Januari Chandra
John Riley
Marketing

Jessica DeMarco
Management, Marketing

Kayla Farren
Finance, Marketing

Montana Sullivan
Art: Studio Art , Marketing
The Music Hall: Research, Design, and Development of Marketing Programs Aimed at Increasing Membership at This Historic, 140-Year-Old Theater in the Heart of the City of Portsmouth, NH

Jennifer Brisebois
Marketing, Theatre
Brooke Brundage
Finance, Marketing
Brendan Carroll
Christina Crosby
Ryan Connolly
Brett Rice
Marketing
Maria Spanos
Business Administration, Information Systems and Business Analytics, Management

Albacore Museum: Research, Design, and Development of a Variety of Marketing Programs Aimed at Increasing Awareness of and Attendance at This Historic, Restored Submarine Museum

Sean Brodeur
Mary Flaherty
Olivia Giatreis
Kelly Lonergan
Marketing
Nicholas Logiudice
Francesca Lorusso
Entrepreneurial Studies, Marketing

Jacob Shah
Management, Marketing

UNH Student Accessibility Services: Design and Development of Marketing Programs to Increase Awareness and Promote This Student-Focused Department at the University

Marco Caparrotta
Marketing

Adam Clark
Caitlin Russell
Management, Marketing

Joseph Deletesky
Chloe Kahn
Information Systems and Business Analytics, Marketing

Brian Ellis
Madison Nash
Finance, Marketing

Caree Pitts
International Business and Economics, Marketing

DermSpectra: Design and Develop Digital Marketing Programs to Increase Awareness and Sales for This New, Whole Body Skin Imaging Company
Quinn Connelly
Allyson Masson
Kaitlyn Rosenholm
Information Systems and Business
Analytics, Marketing
Connor Dever
Hannah Igoe
Marketing
Frank Perullo
Information Technology, Marketing
Isaac Tousley
Lisa Wedsjo
Finance, Marketing
HubSpot: Research and Development of Marketing Programs Aimed at Increasing Awareness of and Registration at HubSpot Academy

Allyson Couture
Art: Studio Art, Marketing
Hannah Dempsey
Richard Edson
Jack Haight
Marketing
Andrew Ruszczyk
Michael Trovato
Management, Marketing
Stephen Taylor
Economics, Marketing
NH Made: Research and Development of Materials to Better Utilize Social Media Marketing to Increase Awareness of the Organization’s Efforts to Sell NH-Made Products

Sarah Davis
Pamela Merriman
Information Systems and Business Analytics, Marketing
Matthew Garrell
Finance, Marketing
Jared Healy
Joseph LaMaina
Entrepreneurial Studies, Marketing
Carly Hilton
Marketing
Julia Segal
International Business and Economics, Marketing
Digital Marketing Center: Research and Development of Marketing Programs Designed to Increase Awareness and Enrollments at the Seacoast Area Non-Profit Educational Organization

Ariana DeFelice
Maxwell Parenteau
Lauren Visconti
Thomas Watters
Marketing
Jacquelyn Grinnell
Business Administration, Finance, Marketing
Brendan Hebert
Information Systems and Business Analytics, Marketing
Nicholas Largy
Entrepreneurial Studies, Marketing Enterprise Holdings: Research, Design, and Development of Marketing Programs Aimed at Helping the Company Re-Brand as a “Total Transportation Solution” Provider

Patrick Deren
April Desmarais
Lyndsey England
Matthew Torrey
Management, Marketing
Sarah Johnston
Timothy Sclaro
Entrepreneurial Studies, Marketing
Isabelle Riley
Jason Underhill
Marketing
Center for Family Business: Research and Development of Marketing Programs to Increase Awareness of Programs Offered by the Center to Help Family-Run Businesses and to Grow Membership

Parker Dukas
Entrepreneurial Studies, Marketing
Katharine Ettinger-Curnan
Ariana Magowan
Zachary Tavano
Marketing
Marissa Kilbreth
Talia Matrumalo
Information Systems and Business Analytics, Marketing
Joshua Krapf
Finance, Marketing
Jack Sullivan
Marketing, Psychology
Stump Chunks: Research, Design, and Development of Marketing Campaign Elements Aimed at Increasing Sales of This NH Wood Products Company

Aisha El-Pahlawy
Taylor MacElhiney
Timothy Riehl
Marketing
Brady Marchewka
Management, Marketing
Matthew Milward
Entrepreneurial Studies, Marketing
Ashley Scimone
Finance, Marketing
NH Scottish Highland Games and Festival: Research, Design, and Develop Marketing Programs to Increase Awareness of and Attendance at This Annual Event

Henrique Ferreira
Holly McWalter
Management, Marketing
Michael Hoffman
History, Marketing
Andrea Jaskulski
Information Systems and Business Analytics, Marketing
Elizabeth Johnston
Marketing
Stephen Kelley
Finance, Marketing
Kirsten Payne
Marketing, Communications
Relyco: Design and Develop Marketing Campaign Elements Targeting the Hospitality Industry for This Dover, NH, Specialty Paper Company

Aislinn Field
Colleen Keating
Nicole Locore
Finance, Marketing
Taylor Frederick
Marketing
Ian Heath
Management, Marketing
Hannah Parker
Hospitality Management, Marketing
Patrick Toomey
Information Systems and Business Analytics, Marketing Portsmouth 400: Research, Design, and Development of Marketing Programs and Activities Designed to Celebrate the 400th Anniversary of the Settlement of Portsmouth, NH
UNH Manchester URC Cinema Arts Day

Thursday, April 19
11 a.m.–1 p.m.
Pandora Mill, Room 456
88 Commercial St., Manchester

The UNHM Communication Arts program has a production track in which students complete introductory and advanced course work in video production, scriptwriting, audio production, film aesthetics, and documentary production. The student films and scripts illustrate student work at different stages in the curriculum.

Alissa Cate
Matthew Fairfield
Communication Arts
Shortcut
Adviser: Anthony Tenczar

Alissa Cate
Communication Arts
Stop the Drop
Adviser: Anthony Tenczar

Logan Frye
Communication Arts
Best Friend—2 Minute Short Film
Adviser: Anthony Tenczar

Logan Frye
Communication Arts
The Pencil Genie—60 Second Audio Spot
Adviser: Anthony Tenczar

Bradford Herrick
Psychology
Come to New Haven
Adviser: Anthony Tenczar

Robert Hill
Communication Arts
Top of the Morning to Ya
Adviser: Anthony Tenczar

Johnathan Lemitelamy
Hunter MacDowell
Christopher Perez
Kyle Sanborn
Communication Arts
Mama’s Boy
Adviser: Anthony Tenczar

Hugh Meadows
Psychology
Cargo Pant Awareness PSA
Adviser: Anthony Tenczar

Christopher Perez
Communication Arts
The Cinematic Influences of David Lynch
Adviser: Jeffrey Klenotic

Cayla PerkinsGoodrie
Communication Arts
The Few. The Proud. The ’I Was Going to Join the Military’
Adviser: Anthony Tenczar

Joseph Riley
Communication Arts
Prove Them Wrong
Adviser: Anthony Tenczar

Kyle Sanborn
Communication Arts
Creativity in the Modern Age
Adviser: Jeffrey Klenotic

Sarah Starry
Communication Arts
Commercial Ad: Gerbone Antibacterial Sanitizer
Adviser: Anthony Tenczar

Peter T. Paul College of Business and Economics
Paul J. Holloway Prize Innovation to Market Competition

Charles & Miriam Nelson Poster Competition

Thursday, April 19
12–2 p.m.
Peter T. Paul College Building Rooms G35 and G45

This poster competition gives students an opportunity to showcase their research into entrepreneurship. Teams have three minutes to present their business idea, followed by three minutes of Q&A with the judges.
History Department Undergraduate Research Conference

Thursday, April 19
12:15–2 p.m.
Memorial Union Building

The History Department hosts several panels of undergraduate history majors who present research projects from their academic classes, research seminars, independent research projects, and Honors theses. The History Undergraduate Research Conference provides History students with the opportunity to share their work with fellow students, professors, and families.

MUB, Room 338

Institutions, Infrastructure, and Industry in 19th- and 20th-Century America

Moderator: Kathy Kottaridis

Kathleen Clark
Political Science
Dorothea Dix and the Institutionalization Movement of the 19th Century
Adviser: Elizabeth Mellyn

Megan Hartnett
Economics, History
Low-Lying Homes for Low-Income Families: The Internal Migration of the Katrina Victims of New Orleans
Adviser: Elizabeth Mellyn, Lucy Salyer

Kelly Pedersen
History
Small Town Mail: The Post Office in 19th-Century Loudon, New Hampshire
Adviser: Jessica Lepler

Brian Rafferty
History
Catching Up: The Irish Influence on the American Fishing Industry
Adviser: Lucy Salyer

MUB, Room 302

Lincoln's Rhetoric and New Perspectives on African American History

Moderator: Mark Lane

Cali Conroy
History
The Correlation between the Black Panther Party and the Black Lives Matter Movement
Adviser: W. Jeffrey Bolster

Crystal Napoli
History, Justice Studies
From Deportee to Exoneree? Marcus Garvey and the Elusive American Apology
Adviser: W. Jeffrey Bolster

Shawna O’Neil
History, Political Science
Americans First: African American Agency in Preventing Colonization
Adviser: W. Jeffrey Bolster

Charlotte Skala
History
How Contemporary Spanish Chroniclers Perceived the Moors in Iberia: 1031-1157
Adviser: David Bachrach

MUB, Room 340

Telling Tales about Identity: From 'Moorish' Spain to the Broadway "Hamilton"

Moderator: David Steelman

Christian Gum
History
Heirs to the Frontier: Examining James Fenimore Cooper’s Influence on Leo Tolstoy
Adviser: Cathy Frierson

Elisabeth Iacono
History
Friend from France: The Popular Image of Lafayette in Early America
Adviser: Janet Polasky

Daniel Novak
History
Uncle Sam and the Fatherland: An Exploration of German-American Identity in World War I
Adviser: Elizabeth Mellyn

Matthew Sweeney
History
How Contemporary Spanish Chroniclers Perceived the Moors in Iberia: 1031-1157
Adviser: David Bachrach

The Naked Arts—Creativity Exposed

Act II

Thursday, April 19
12:40–2 p.m.
Paul Creative Arts Center, Museum of Art

This event exposes the inner creative process of artists working in various disciplines. Presenters will describe the process, research, and other creative aspects undertaken to bring an artistic creation from initial inspiration to the stage or gallery. This may include a performance or excerpts from their work to illustrate their creative scholarship.

Rachael Downs
Theatre
Lunch by a Cornfield
Adviser: Thomas Payne
Philosophy Department Undergraduate Research Conference

Thursday, April 19
4–7 p.m.
Hamilton Smith Hall, Room 240

The Philosophy URC is a mosaic of concise and meaningful student presentations, varying from such philosophical topics as applied ethics, language theory, and social justice. Standard presentations predominantly last fifteen minutes and are subsequently followed by a brief Q&A period.

Anna Allen
Philosophy, Sustainable Agriculture and Food Systems
New Hampshire Indigenous Food Justice
Adviser: Paul McNamara

Eva Ford
Communication, Philosophy
Creating Digital Realities
Adviser: Nicholas Smith

Jonathan Mix
Philosophy
Ethics in Neuroscience
Adviser: Willem deVries

All Colleges Undergraduate Research Symposium

Oral Presentations, Session A

Friday, April 20
9:30–10:40 a.m.
Memorial Union Building

The All Colleges Undergraduate Research Symposium showcases students from all disciplines. Students present their faculty-mentored projects in one of two interactive poster sessions, or in one of three oral presentation sessions. University-wide participants come from a variety of disciplines.

MUB, Theatre I

Anthropology and Critical Issues

Moderator: Sara Withers

Caroline Aubry
Anthropology

Katherine Pendleton
Anthropology, History
Activist Anthropology: The Dirty War in Argentina
Adviser: Sara Withers

Jasmin Bach
Anthropology, Spanish
The Importance of Diversity at UNH
Adviser: Sara Withers

Caitlin Burnett
Anthropology, Sustainability
Ethnographic Methods and Business Sustainability
Adviser: Meghan Howey

Nicholas Davini
Anthropology
International Student Inclusion at UNH
Adviser: Sara Withers

Erik Swenson
Anthropology
Unhealthy Relationships on College Campuses
Adviser: Sara Withers
MUB, Room 330

Asia in the 21st Century: Old Problems, New Tricks

Adviser and Moderator: Lawrence Reardon

Abraham DeMaio
Civil Engineering
Building a Continent: China’s African Policy on Infrastructure

Kyle Mann
Political Science
Poverty and Regional Inequality: Chinese Coastal Development and the Regional Divide between Rich and Poor

Zachary Pafford
Political Science
Commissioner Lin and His Battle against Opium

Alden Skillings
Political Science
Japanese Xenophobia and Shinzo Abe’s Labor Policies

John Teaver
Political Science
Chinese Dominance in the South China Sea

Weicong Zeng
Political Science
Chinese Leader’s Influence on the Modernization of China

MUB, Room 203

Education, Population, and Markets: Comparative Perspectives

Moderator: Maingi Solomon

Cara Buccini
Geography, International Affairs, Italian Studies
Education for All: World Bank Involvement in Post-Earthquake Haiti
Adviser: Helina Beyene

Ibrahima Camara
French, International Affairs
Education Declining in Senegal: Causes and Implications
Adviser: Funso Afolayan

MUB, Room 233

Great Power Politics, At Home and Abroad

Moderator: Jeannie Sowers

Lisa Dittman
International Affairs, Psychology
Korean Reunification: Limitations of the German Reunification Model in Its Application to the Korean Conflict
Adviser: Helina Beyene

Justin Klingler
International Affairs, Political Science
Venezuelan Political and Economic Crisis: Causes and Implications
Adviser: Funso Afolayan

Emily Luu
International Affairs, Sociology
The Great Firewall of China
Adviser: Helina Beyene

MUB, Room 332

International Security: Conflict and Change

Adviser: Lawrence Reardon
Moderator: Abby Pokraka

Elizaveta Baykova
Political Science
Implementing Sanctions on States

Ryan Clasby
Political Science
Foreign Influence on the Domestic Political Process

Makaylah Johnson
Political Science
The Development of al-Qaeda

Charles Morvillo
Political Science
How Do Drug Cartels Succeed?
Kyle Noel  
Political Science  
The Escalation of Tension between the U.S. and the DPRK  

Rebecca Sennott  
Political Science  
Levels of Analysis for Democratization

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MUB, Room 302

**Multidisciplinary Session I: Studies in Health, Treatment, and Wellness**

Moderator: Jesse Morrell

Bailey Basel  
Animal Science  
Plasma Response of Histidine and Histidine Metabolites to Incremental Amounts of Abomasal Infusion of Histidine in Lactating Dairy Cows  
Advisers: Andre Brito, Nancy Whitehouse

Kelly Davis  
Psychology  
Treatment Options for Opioid Addiction: Efficacy and Availability  
Adviser: Elizabeth Caldwell

Amanda Gould  
Biomedical Science  
Analysis of Dental Public Health Programs’ Influence on Dental Professional Shortage Areas  
Adviser: Rosemary Caron

Nicholas Ritzo  
Genetics  

Taylor Schwartz  
Biochemistry, Molecular and Cellular Biology  
Diversity and Antibiotic Activity of Streptomyces Bacteria: Searching for Super-Killer Bacterial Strains  
Adviser: Cheryl Andam

Giselle Wallace  
Classics, Psychology  
Myth and Trauma: Healing Power of Using Classical Texts in Book Groups for Combat Veterans  
Adviser: Susan Curry

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MUB, Room 338

**Multidisciplinary Session II: Studies in Culture, Politics, and Society**

Moderator: Beth Kilinc

Krysta Ginge  
International Affairs, Political Science  
Wine about It: How Climate Change Is Affecting International Wine Markets  
Adviser: Elizabeth Carter

Kayla Goodwin  
Sociology  
Civic and Community Engagement at the University of New Hampshire  
Advisers: Megan Brabec, Sharyn Potter

Kimberly Grove  
Political Science  
Evaluating New Judicial Federalism in Connecticut’s Court System  
Adviser: Susan Siggelakis

Rory O’Neil  
International Affairs, Political Science  
Coping Mechanisms and Cyclical Conflict in Yemen  
Adviser: Jeannie Sowers

Nicholas Tatum  
Homeland Security  
Fourth Amendment Protections in the Digital Age  
Adviser: Maeve Dion

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MUB, Room 340

**Multidisciplinary Session III: Kinesiology and Communication Sciences and Disorders**

Moderator: Robert Kertzer

Brittany Catcher  
Kinesiology  
A Comparison of Head Impact Exposure in Two Youth Football Programs in Southern New Hampshire  
Adviser: Erik Swartz

Christopher Cleary  
Kinesiology  
Postactivation Potentiation during Blood Flow Restricted Complex Training  
Adviser: Summer Cook

Mikaela Frechette  
Kinesiology  
Corticomotor Function during Blood Flow Restricted Arm Crank Ergometry  
Adviser: Summer Cook

Fallon Greene  
Kinesiology  
Core Stability and Performance Measurements in Collegiate Female and Male Lacrosse Players  
Adviser: Summer Cook

Kayla Hansen  
Communication Sciences and Disorders  
Are Great Outdoor Orientation Programs Facilitated by the Hormone Oxytocin?  
Adviser: Brent Bell

Nicholas Paul  
Kinesiology  

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MUB, Room 207

**Parties, Populism, and Race**

Moderator: Funso Afolayan

Cruz Brito  
International Affairs, Spanish  
Immigration in Hungary: The Hardline European Outlier  
Adviser: Funso Afolayan

Claire McCarthy  
Economics, International Affairs  
Methodologies of Official and Unofficial Statistical Data and the Implications of Populist Politics in Argentina  
Adviser: Helina Beyene

Jacqueline Ruggiero  
German, International Affairs  
Where Racism Meets Politics: A Study of the AfD Party in Germany  
Adviser: Helina Beyene
Elena Ryan
International Affairs, Political Science, Women's Studies
Young Women in the White Supremacist Movement: A Paradox
Adviser: Helina Beyene

MUB, Room 304
Social Franchising: A Powerful Replication Model for Social Enterprises
Adviser: William Maddocks
Moderator: Faina Bukher

Chelsea Evankow
Biology, Women's Studies
WSV: Collaborative Partnerships That Empower Sustainable Businesses and Communities

Elizabeth Lapsley
Kiley McKenna
Nursing
Global Partners in Hope: Bringing Sustainable Medical Care to Rural Togo

Rachel Vaz
International Business and Economics
Livelihood Basix, Inc.: Seeking Market Solutions for Farmers in Tanzania

MUB, Room 334
The Politics of Immigration: Navigating Culture, Language, and Identity
Adviser: Funso Afolayan
Moderator: Smita Lahiri

Emma Berryman-Moore
Environmental and Resource Economics, International Affairs
French Exceptionalism and Immigration: Implications for Discrimination and Integration

Olivia Bourdon
English, International Affairs
Syrian Refugees and African Immigrants in France: A Comparative Perspective

Lorena Cruz
International Affairs, Spanish
Stories of the Salvadoran Diaspora

Elden Gray
International Affairs, Linguistics
Language Programs for Immigrant Children in Italy

Aaron Promer
History, International Affairs
Culture Shock: Nicaraguan Immigration and Costa Rica's Changing Immigration Policies

MUB, Room 336
The Rhetoric of Activists, Activism, and Social Protest
Moderator: Jennifer Borda

Taylor Flutie
Communication
Vanderpump Foundation to Stop the Yulin Dog Meat Festival
Adviser: Jennifer Borda

Erin McKenna
Communication
The Life and Legacy of Betty Friedan
Adviser: Jennifer Borda

Sriyaa Shah
Communication, Psychology
The Parallel Characteristics between the Oppressed Groups in America and India with a Focus on African Americans and Dalits
Adviser: Kate Zambon

Katherine Walker
Communication
The Legacy of Larry Kramer
Adviser: Jennifer Borda

MUB, Room 321
The Video Essay: Transforming Scholarship into Shareable Multimedia
Moderator: Michael Soha

Eva Ford
Communication, Philosophy
The Case for a Cultural Competency Course
Adviser: Michael Soha

Kaitlyn Lawson
Communication
Two-Dimensional Love in a Three-Dimensional World
Advisers: Nora Draper, Michael Soha

Julia London
Communication, Women's Studies
Embarrassment and Social Organization
Adviser: Michael Soha

Christine Speranza
Communication
Feminist Standpoint Theory and Its Real Life Applications
Adviser: Michael Soha
All Colleges
Undergraduate Research Symposium

Poster Presentations,
Session A

Friday, April 20
9:30–10:40 a.m.
Memorial Union Building,
Granite State Room

The All Colleges Undergraduate Research Symposium showcases students from all disciplines. Students present their faculty-mentored projects in one of two interactive poster sessions, or in one of three oral presentation sessions. University-wide participants come from a variety of disciplines.

Christine Aiello
Geography
Air Pollution in Chengdu, China
Advisers: Jennifer Brewer, Tu Lan

Spencer Bardwell
Psychology
Benjamin Desrochers
Jenna Hannafin
Justice Studies, Psychology
Are Your Parents Pushing You toward a Cushier Future? Drug Usage as a Mediator between Parental Legitimacy and Future Aspirations in Adolescence
Advisers: Alexander Blandina, Ellen Cohn, Donovan Kelley

Jeffrey Baron
Riley Boss
Anthropology
Elizabeth Schwaner
Anthropology, French
Indigenous Cultural Heritage and History in New Hampshire
Adviser: Svetlana Peshkova

Samantha Berman
Anthropology
Ancient Faces: How Your Nose Got Its Shape
Adviser: Rebecca Gibson

Melanie Bertolino
Biomedical Science
Behavioral Analysis of d18a Transgenic Mice
Adviser: Arturo Andrade

Olivia Black
Nursing
From Care Home to Community: The Impact of Connection on Dutch Elder Care and Well-Being
Adviser: Michele Loos

Julia Boisselle
Nutrition
Relationship between Binge Drinking Frequency and Diet among College Students
Adviser: Jesse Morrell

Courtney Bond
Neuroscience and Behavior
Catherine Peraro
Biomedical Science
Stephen Zhang
Psychology
Using Motion-Induced Blindness to Determine Contrast Asymmetries of ON- and OFF-Cells
Adviser: William Stine

Samantha Both
Morgan Howard
Psychology
Alyssa McCarren
Justice Studies, Psychology
Evaluation of Help-Seeking: Prevalence of Discriminatory Behavior
Advisers: Victoria Banyard, Katie Edwards, Andrew Rizzo

Juandiego Carmona
Psychology
Cultural Variations in Narrative Discourse Style between U.S. and Colombian Children
Adviser: Michelle Leichtman

Nicole Charron
Zoology
The Effect of a High Calcium Diet on House Cricket (Acheta domesticus) Mobility
Adviser: Leslie Curren

Caroline Cherry
Communication Sciences and Disorders
Sex Differences in Internalizing and Externalizing Behaviors in Children with Autism Spectrum Disorder
Adviser: Kathryn Greenslade

Kristian Comer
Francesco Alessandro Mikulis-Borsoi
Computer Science
YouScheduler—Simplified Course Scheduling
Adviser: Radim Bartos

Yusuf Ebrahim
Biomedical Science
Effects of the Mortalin Inhibitor MKT-077 on the Tumor Suppressor p53 in Neuroblastoma IMR-32 Cells
Advisers: Paul Tsang, Charles Walker

Travis Fischer
Biochemistry, Molecular and Cellular Biology
Role of GLI3 in Diffuse Large B Cell Lymphoma (DLBCL)
Adviser: Sherine Elsawa

Victoria Franks
Justice Studies, Political Science
Women in Legislation
Adviser: Dante Scala

Sigurdur Geirsson
Political Science
DNKY: Smart Politics
Adviser: Dante Scala

Meghan Gillespie
Rachel Rafferty
Brooke Soderberg
Biology
Measuring Somatic Mutation Rates in the Model Organism (Caenorhabditis elegans) to Further Understand Cancers and Human Disorders
Adviser: John Collins

Anna Haber
Genetics
Understanding the Role of Polyamines in Rice under Drought and Salt Stress
Adviser: Subhash Minocha

Sean LaMontagne
Political Science
Effects of Gun Laws by State
Adviser: Dante Scala
Elise Lacasse
Nutrition
Relationship between Reported Sleep and Physical Fitness among College Students
Adviser: Jesse Morrell

Meghan Linehan
Health Management and Policy
Falls Prevention in Older Adults: Reducing Effects of Risk Factors through a Matter of Balance and Tai Ji Quan: Moving for Better Balance® Programs
Adviser: Semra Aytur

Mackenzie Macuch
Occupational Therapy
An Exploratory Study on Facilitators and Barriers to Aging-in-Place by Seniors in New England
Advisers: Sajay Arthanat, John Wilcox

Jenna Mahon
Human Development and Family Studies
International Issues of Children and Adolescents
Adviser: Maureen Ittig

Deandra Miller
Geography
Geography of Happiness
Adviser: Dante Scala

Madison Milton
Political Science
Variables Regarding Views on Abortion
Adviser: Dante Scala

Nicole Moody
Nursing
Effects of Music Therapy on Distress in Patients Receiving Outpatient Chemotherapy
Adviser: Raelene Shippee-Rice

Matthew Morris
Wildlife and Conservation Biology
Masking Effect of Anthropogenic Noise in Predatory Detection
Adviser: Leslie Curren

Eric Newton
Health Management and Policy
Concussions in Female Youth Soccer Players
Adviser: Anne Jamieson

Abby Oostendorp
Michael Palazzolo
Sophie Topouzoglou
Psychology
The Effects of Spatial Frequency on Stereocuity: A Replication of Schor and Wood
Advisers: Andrew Kitt, Joseph LaBarre, William Stine

Carly Orlacchio
Nutrition
Evaluating Perceptions of Athletic Performance between Body Composition Measurements Using Air Displacement Plethysmography in Male Collegiate Athletes
Adviser: Kevin Pietro

Elizabeth Pardy
Political Science
Abortion in Relation to College Education and Income
Adviser: Dante Scala

Trey Patno
Biochemistry, Molecular and Cellular Biology
Temporal Regulation of an Angiogenic Inducer in Human and Bovine Ovarian Cells
Adviser: Paul Tsang

Nicole Pearl
Social Work
The Experiences of First-Generation College Students at UNH
Adviser: Mary Banach

Dana Prisloe
Social Work
Social Work Education and Mental Health Stigma
Adviser: Cory Morton

Kelsey Santello
Justice Studies, Psychology
A Mixed Method Study of Youth Experiences Witnessing Bias Victimization Online, Including Associations with Emotional Distress
Advisers: Lisa Jones, Kimberly Mitchell

Elizabeth Sibson
Political Science
Relationship between Party Identification and Trust in the Scientific Community
Adviser: Dante Scala

Peter Sirkovich
Political Science
General Happiness
Adviser: Dante Scala

Evan Smith
Justice Studies, Sociology
LGBTQIAP+ University Students and Likelihood of Self-Harm
Adviser: James Tucker

Marin Strong
Nursing
Factors Influencing Care-Seeking Behaviors for Childhood Illness by Mothers in Nepal
Adviser: Gene Harkless

Brittany Sullivan
Health Management and Policy
Risk Factors of Military Personnel Becoming Opioid Dependent
Adviser: Semra Aytur

Elizabeth Suschana
Nutrition
Impact of Word Choice on Comfort Level of Male Collegiate Hockey Players during Body Composition Assessment
Adviser: Kevin Pietro

Adam Thorburn
Health Management and Policy
The Negative Impact of Sugar-Sweetened Beverages
Adviser: Semra Aytur

Shelby White
Political Science
Comparison of Confidence in Government Institutions
Adviser: Dante Scala

Sara White
Neuroscience and Behavior
Norepinephrine Transporter Phenotype Impacts Oscillatory Power during Cognitive Flexibility
Adviser: Robert Ross
MUB, Granite State Room

**Advanced Technical Writing**

Adviser: Molly Campbell

Kayla Barron

English

*Inside the Criminal Mind: Criminal Profiling Explained and Explored*

Lilah Cherim

English

*What's out There for English Majors? Exploring the Potential of a Mysterious Job Market*

Linnea Gustafsson

Information Systems and Business Analytics

*Threats Facing Bees: A Website*

Adam Huynh

Biomedical Science, Neuroscience and Behavior

*Epidemiology in EMS: A Website*

Kara Macri

English Teaching

*Professionalism and Wardrobe in the Workplace*

Rachel McKeown

Ecogastronomy, English

*The Green Market: Online Options for Eating Well on a Budget*

Brianda Mendez

Animal Science

*Four Legs Are Better Than Two*

Annmarie Picinich

Civil Engineering

*A Study of the Tappan Zee Bridge Reconstruction*

Alex Valencia

Nutrition

*So You Want to Become a Professional Athlete? Craft Your Path to Pro*

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MUB, Granite State Room

**Sustainability Dual Majors**

Brandon Allen

Management, Sustainability

Chloe Ford

Social Work, Sustainability

Angelyn Masters

Economics, Sustainability

Alexis Prinz

Environmental and Resource Economics, Sustainability

*Analyzing the Waste Stream of Academic Buildings at UNH*

Adviser: Nicole Tichenor

Marina Bowie

Economics, Sustainability

Drew Guilbault

Geography, Sustainability

Andrew Hartnett

English/Journalism, Sustainability

Molly Pagliuca

Social Work, Sustainability

*UNH Sustainability Walking Tour*

Adviser: Vanessa Levesque

Kevin Dobson

Alexander Duffy

Environmental and Resource Economics, Sustainability

Jacob Moore

Marine, Estuarine and Freshwater Biology, Sustainability

Athena Valkanos

Sociology, Sustainability

*Campus-Community Resilience: Preparing Our Home for the Future*

Adviser: Cameron Wake

Danielle Flanagan

Psychology, Sustainability

Elliot Judware

Information Systems and Business Analytics, Sustainability

Keara Smith

Management, Sustainability

Jocelyn Vierzen

Communication, Sustainability

*The Dirty Truth: Trash in Residence Halls*

Adviser: Nicole Tichenor

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**All Colleges Undergraduate Research Symposium**

**Oral Presentations, Session B**

Friday, April 20

10:50 a.m.–Noon

Memorial Union Building

The All Colleges Undergraduate Research Symposium showcases students from all disciplines. Students present their faculty-mentored projects in one of two interactive poster sessions, or in one of three oral presentation sessions. University-wide participants come from a variety of disciplines.

MUB, Room 330

**Asian Studies: An Emerging Global Hegemon**

Adviser: Lawrence Reardon

Moderator: Patrick Baga

Catherine Babbidge

Political Science

*Trade: The Most Prominent International Dispute*

Eric Dunn

Political Science

*U.S. Tariffs on Chinese Products*

Justin Klingler

International Affairs, Political Science

*China: The Success of One Belt, One Road*

Zachary Pafford

Political Science

*Xi Jinping’s Way Forward*

Iain Saltzberg-Pollard

Political Science

*Hegemonic Collapse*

Cameron Sweeney

Political Science

*War with China: Increasing Tensions Rise among Economic Powerhouses*
MUB, Room 334
Asian Studies: Civil Rights and Conflict
Adviser: Lawrence Reardon
Moderator: Matthew Goduto
Nooran Alhamdan
Economics, Political Science
China and the Arabs: Chinese Attempts at Regional Influence in the Middle East and North Africa
Jordyn Haime
English/Journalism, International Affairs
The Growing Dangers of Reporting in China
Jordan Leikin
Political Science
Syria: The Pothole in China’s Road
Douglas Marino
Political Science
China and Human Rights
Margaret Quick
Political Science, Women’s Studies
Masterpieces or Simply Wedding Cakes? Exploring the Boundaries of Freedom of Speech through the United States Supreme Court Case Masterpiece Cakeshop v. Colorado Civil Rights Commission

MUB, Room 321
Collected Papers in Communication Research
Moderator: R. Michael Jackson
Victoria Gleixner
Communication
The Power of Classical Music
Adviser: R. Michael Jackson
Robert Maynard
Communication, Linguistics
Tradition and Technology: Choices in Film
Advisers: Michelle Gibbons, R. Michael Jackson

MUB, Room 332
Asian Studies: Conflict and Deterrence in East Asia
Adviser: Lawrence Reardon
Moderator: Abby Pokraka
Tristen Bianco
Political Science
China’s Blue Water Navy: Why the East Asian Superpower Plans to Assert Its Maritime Capabilities in Attempt to Disrupt the American-Centric International Order
Nelson Idahosa
Political Science
Disputes in the South China Sea
Orrin Judd
History, Political Science
How World War III Begins: China and the South China Sea
Sam Sires
Political Science
Global Implications of China’s Increased Nuclear Deterrence Efforts
Sean Williams
Political Science
China’s Military Expansion and Global Hegemony

MUB, Room 337
Challenges in Urban Environments, Health, and Development
Moderator: Thomas Safford
Krysta Gingue
International Affairs, Political Science
On the Outskirts: How the French Suburbs Face Disproportionate Inequality
Adviser: Helina Beyene
Chad Linehan
International Affairs, Spanish
Catholic Spain and Millennium Development Goals: An Advantage or a Handicap?
Adviser: Funso Afolayan
Shrimika Madhavan
Genetics, International Affairs
Genomics in Public Health: Current Challenges in the U.S. and India
Adviser: Funso Afolayan
Ivette Pujols
Civil Engineering
Preserving Cultural Architecture in a Globalized Hong Kong: A Case Study of Central Police Station
Adviser: Helina Beyene
Celine Rogers
Geography, International Affairs
Waste Management in Senegal: Plans for the Future of Dakar
Adviser: Helina Beyene

MUB, Theatre I
Cultural Heritage in Focus
Moderator: Svetlana Peshkova
Jeffrey Baron
Emma Pearce
Anthropology
Bears Ears National Monument: Oil vs. Culture
Adviser: Sara Withers
Jeffrey Baron
Riley Boss
Anthropology
Elizabeth Schwaner
Anthropology, French
Indigenous Cultural Heritage and History in New Hampshire
Adviser: Svetlana Peshkova
Crystina Friese
Anthropology, Justice Studies
Mapping Lost Early Colonial Cemeteries in the Oyster River Watershed
Adviser: Meghan Howey
Morgan Sansing
Human Development and Family Studies
Indigenous Heritage of New Hampshire
Adviser: Svetlana Peshkova

MUB, Room 233
Culture, Media, and Language in a Globalizing World
Moderator: Daniel Chavez

Robin Beaulieu
International Affairs, Spanish
The Test of Time: Peruvian Indigenous Languages and Cultures in a Globalizing World
Adviser: Funso Afolayan

Fatimah Nouilati
English/Journalism, International Affairs
Mainstream Media Provoking Audiences during the Muslim Ban: Discourse Analysis of Al Jazeera, Al Arabiya, Fox News, and CNN
Adviser: Helina Beyene

Justin Poisson
Economics, International Affairs
Exploring Factors Related to French Students’ Acquisition of English via the Diffusion of American Cultural Products and Economic Dominance
Adviser: Helina Beyene

Chelsey Scovil
Economics, International Affairs
Cultural Inequality in Modern Portugal
Adviser: Funso Afolayan

MUB, Room 338
Multidisciplinary Session IV: Explorations in Science and Academia
Moderator: Kate Gaudet

Emma Berryman-Moore
Environmental and Resource Economics, International Affairs
Surveying the NREN Department: Implications and Findings for Recruitment and Major Satisfaction
Adviser: John Halstead

Kristian Comer
Francesco Alessandro Mikulis-Borsoi
Computer Science
YouScheduler—Simplified Course Scheduling
Adviser: Radim Bartos

Katherine Hyson
Neuroscience and Behavior
Sleep Quality’s Effect on EEG Activity Underlying Information Processing during Motor Control
Advisers: Ronald Croce, Robert Ross

Araya Lacy
Neuroscience and Behavior
The Relationship between Moral Reasoning and Theory of Mind Effective Connectivity
Adviser: Robert Ross

Lindsay Kosel
Communication
A Tropic Understanding of Street Art as Social and Political Advocacy
Adviser: Lawrence Prelli

Bailey Marshall
Communication, Women’s Studies
Creating a Space to #SayHerName: How the #SayHerName Hashtag Created a Feminist Counterpublic
Adviser: Jennifer Borda

Jamie Smith
Communication
No Laughing Matter: Failures of Satire during the 2016 Presidential Election
Adviser: Michael Soha

MUB, Room 340
Multidisciplinary Session V: Navigating Life Cycles: Birth, Adolescence, and Elder Care
Moderator: Catherine D’Auteuil

Colleen Bernard
Health Management and Policy
Social and Clinical Risk Factors Associated with Low-Risk Cesarean Deliveries among Births in the United States (2016)
Adviser: Semra Aytur

Olivia Black
Nursing
From Care Home to Community: The Impact of Connection on Dutch Elder Care and Well-Being
Adviser: Michele Loos

Juliana Fusco
Sociology, Women’s Studies
Gender Role Orientations, Depression, and Substance Misuse in Late Adolescence and Early Adulthood
Adviser: Karen Vangundy

Ashley Paige
English Teaching
Navigating a Darkening World: New Hampshire Trends in Young Adult Literature
Adviser: Laura Smith

Charlotte Harris
Communication, Spanish
Populism and the Press: Investigating the Relationship between Government and Media in Latin America
Adviser: Michael Soha

2018 UNDERGRADUATE RESEARCH CONFERENCE • 39
All Colleges Undergraduate Research Symposium

Poster Presentations, Session B

Friday, April 20
10:50 a.m.–Noon
Memorial Union Building, Granite State Room

The All Colleges Undergraduate Research Symposium showcases students from all disciplines. Students present their faculty-mentored projects in one of two interactive poster sessions, or in one of three oral presentation sessions. University-wide participants come from a variety of disciplines.

Marie Akiki
Biomedical Science
Localization of the 37a Isoform on the N-Type Presynaptic Calcium Channel Cav2.2 That Plays a Role in Anxiety
Adviser: Arturo Andrade

Marissa Anderson
Genetics, German
Metabarcoding Investigation of Extensive Dune Grass Die-Off in the Northeast
Advisers: Gregg Moore, William Thomas

Zoe Beausoleil
Neuroscience and Behavior
Effects of Housing Environment on Thermal and Mechanical Nociceptive Responses in Mice
Adviser: Arturo Andrade

Audrey Berenson
Biomedical Science
The Significance of Particle-Associated Vibrio parahaemolyticus in Oyster Contamination
Adviser: Stephen Jones

Rachel Berg
Classics, Recreation Management and Policy
I Skate, Therefore I Am: Athletic Identity amongst Collegiate Hockey Players
Adviser: Nathan Traunte

Samantha Bogdahn
Neuroscience and Behavior
Testing the Sensory Ability of Canis lupus familiaris to Distinguish between Human Identical Twins
Adviser: Leslie Curren

Julian Brown
Biomedical Science
Histochemical Analysis of the Cannabinoid Receptor 1 (CBI) in Cholecystokinin (CCK) Positive Cells of the Spinal Cord and Trigeminal Nucleus
Adviser: Arturo Andrade

Eleni Bruzik
Political Science, Sociology
A Comprehensive Assessment of Attitudes and Practices Related to Gun Safety among Caregivers with Young Children
Adviser: Heather Turner

Bryce Cahill
Political Science
Income and Gun Control
Adviser: Dante Scala

Sydney Carlino
Health Management and Policy
New Hampshire High School Students’ Prescription Drug Use and Associated Protective Factors and Risk Factors Including Adverse Childhood Experiences (ACEs)
Adviser: Semra Aytur

Thomas Caveney
Nutrition
Comparison of Diet Quality among College Students with and without a Disability
Adviser: Jesse Morrell

Matthew Ciccarello
Political Science
National Security and Public Opinion
Adviser: Dante Scala

Hannah Coffin
Biomedical Science
Mycosis Fungoides in a Fennec Fox (Vulpes zerda)
Adviser: David Needle

Stephanie Copeland
Biomedical Science
Population Structure and Dispersal of Prairie Warblers in Southern Maine and New Hampshire
Advisers: Adrienne Kovach, Matthew Tarr

Jamie Cormier
Alexis Giacco
Hannah Nordstrom
Hailey Raudat
Psychology
Ross Jones
Classics, Psychology
Attitudes and Beliefs on School Environment: How Harassment, Bullying, and Self-Harm Likelihood Affect Victimized Youth
Advisers: Victoria Banyard, Katie Edwards, Andrew Rizzo

Kaidy Cornell
Nutrition
Comparing Body Mass Index, Body Composition, and Waist Circumference as Predictors of Health Risk in Male College Athletes
Adviser: Kevin Pietro

Tiana DiBenedetto
Nutrition
Analyzing Body Fat Percentage of Male Collegiate Athletes: Pre-Season, In-Season, and Off-Season Training
Adviser: Kevin Pietro

Jake Donahue
Biomedical Science
Investigating the Interplay between Angiogenic Regulators in the Developing Bovine Corpus Luteum
Adviser: Paul Tsang

Maura Donovan
Nutrition
Evaluating Perceptions of Dietary Quality between Body Composition Measurements Using Air Displacement Plethysmography in Male Collegiate Athletes
Adviser: Kevin Pietro
Sarah Douglas
Occupational Therapy
Sara Jane Roberts
Psychology
Maternal Caregiving and Preschoolers’ Executive Functioning: The Role of the Co-Parent Relationship
Adviser: Jill Sherman

Patrick Doyle
Finance, Information Systems and Business Analytics
Eric Gosselin
Information Systems and Business Analytics
Cryptocurrency Disrupting Global Economy
Adviser: Kholekile Gwebu

Danielle Flanagan
Psychology, Sustainability
Jacqueline Melius
Justice Studies, Psychology
Plant the SEED and Watch It Grow: Women’s Recovery in a Trauma-Informed Sober Living Home
Advisers: Katie Edwards, Katherine Lee

Nileesa Gautam
Biomedical Science
Social and Environmental Factors That Lead to Low Birthweight in Infants
Adviser: Semra Aytur

Emily Golomb
Biomedical Science
Intelligence in Sled Dogs: Are Leaders Really the Top Dogs?
Adviser: Leslie Curren

Juan Gomez-Rivadeneira
Neuroscience and Behavior
Identifying Cell-Specific Expression of Voltage Gated Calcium Channel Subunit Homologues in Drosophila melanogaster
Adviser: Arturo Andrade

Emily Haley
International Affairs, Sociology
Analysis of Recent Trends Amongst Same-Sex Married Couples in the United States
Adviser: Kenneth Johnson

Adam Huynh
Biomedical Science, Neuroscience and Behavior
Regulation of the Angiogenic Inducer, CCNI, by Heat-Inactivated Serum, in Human Tumor Granulosa Cells
Adviser: Paul Tsang

Kim Ip
History
Understanding Immigrants’ Trust in Public Institutions
Adviser: Dante Scala

James Ippolito
Nutrition
Relationship between Multivitamin/Mineral Supplement Use and Presence of Metabolic Syndrome Biomarkers among College Students
Adviser: Jesse Morrell

Kelly Jacques
Psychology
Sarah Nordstrom
Justice Studies, Sociology
Jocks, Mathletes, and Band Geeks: Do Extracurricular Activities Affect Perceptions of Rule-Violating Behaviors?
Advisers: Alexander Blandina, Ellen Cohn, Donovan Kelley

Sydney Johnson
Biochemistry, Molecular and Cellular Biology
Hannah Stewart
Environmental Conservation and Sustainability
Examining Factors That Influence Biology Student Performance on Quantitative Tasks
Adviser: Melissa Aikens

Kira Kenny
Zoology
Lying Behaviors in Holstein and Jersey Breeds of Cows
Adviser: Leslie Curren

Emily Landry
Wildlife and Conservation Biology
Evaluating the Effect of Baiting on White-Tailed Deer Harvest in New Hampshire
Advisers: Daniel Bergeron, Peter Pekins

Elizabeth Lapsley
Kiley McKenna
Nursing
Childhood Nutrition in the Rural Area of Agbelouve, Togo
Adviser: Gene Harkless

Kayla Lent
Laura Nussbaum
Wildlife and Conservation Biology
How Do Female-Biased Sex Ratios Influence Male Resource Defense Behavior in Hissing Cockroaches?
Advisers: Leslie Curren, Daniel Howard

Leila Mclver
Political Science
Modern Sexism and Women in the Workplace
Adviser: Dante Scala

Christine Masci
Recreation Management and Policy
Changing Attitudes towards Disability: The Impact of Taking a Disability Awareness Class
Adviser: Jennifer Frye

Kathleen O’Loughlin
Nursing
The Effect of ED Nurses’ Perception of Addiction on Pain Management of Drug Users
Adviser: Joanne Samuels

Tyrus Parker
Psychology
The Great Recession’s Impact on Demographic Trends in the Northeastern United States
Adviser: Kenneth Johnson

Hayden Proborowski
International Affairs, Political Science
Analyzing Right-Wing Populism in Rural New Hampshire during the 2016 Presidential Election
Adviser: Dante Scala

Ashley Prokopik
Nursing
Enhancing Bone Marrow Transplant Care and Survivorship through the Patient Experience
Adviser: Lisa Wesinger
Nicholas Ritzo  
Genetics  
Taylor Schwartz  
Biochemistry, Molecular and Cellular Biology  
Diversity and Antibiotic Activity of Streptomyces Bacteria: Searching for Super-Killer Bacterial Strains  
Adviser: Cheryl Andam  

Jessica Sexton  
Animal Science  
Lying Times, Feed Particle Size, and Rumination Correlated with Milk Production in Dairy Cattle  
Adviser: Peter Erickson  

Mary Sherman  
Sustainable Agriculture and Food Systems  
Evaluation of the After-School Program “Healthy Me, Healthy Earth”  
Adviser: Joanne Burke  

Erin Stowell  
Biology  
John Taylor  
Marine, Estuarine and Freshwater Biology  
Jack Tremblay  
Genetics  
Exploring Toxin Production in Picocyanobacteria: An Investigation of Lab Culture and Natural Systems  
Advisers: James Haney, Patricia Jarema  

Caroline Sweny  
Health Management and Policy  
Early Careerists in Healthcare Administration  
Adviser: Mark Bonica  

Dylan Upton  
German, Italian Studies  
Fashion Diversity in French Ad Campaigns  
Adviser: Helina Beyene  

Chiara Vercellone  
English/Journalism  
Federal Budgeting Repercussions on Future Terrorist Attacks  
Adviser: Dante Scala  

Molly Wotton  
Recreation Management and Policy  
Including Students with Disabilities in High School Sports in Northern New England  
Adviser: Robert Barcelona  

Tracy Yeung  
Biomedical Science  
GLI3 Mediated Inflammation in Human and Mouse Cells  
Adviser: Sherine Elsawa  

MUB, Granite State Room  
Advanced Technical Writing  
Adviser: Molly Campbell  

Maxwell Clements  
Economics  
Sports Media Online—The Boston Celtics  

Nicole Collin  
Sociology  
Portrayal of Women in Sociology  

Michaela Dunn  
Wildlife and Conservation Biology  
Applying the Concept of One Health  

Zhangxi Feng  
Mechanical Engineering  
Edu-ReForums: International Idea Hub for Education Discussions  

Connor MacLean  
Communication  
CTE and Professional Football  

David Moore  
English  
Preparation for First Year English Major Degrees  

Mary Mullins  
Biomedical Science  
Exploring the World of Alternative Medicine: A Website  

Shawna O’Neil  
History, Political Science  
Teacher Freedom of Expression in Public Schools  

Arianna Robichaud  
English Literature  
The Vegan Agenda: Alternative Protein Sources and Sustainability  

Rachel Smithline  
Anthropology  
Monstrous Reflections  

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**All Colleges Undergraduate Research Symposium**

**Oral Presentations, Session C**

**Friday, April 20**

**12:15–1:25 p.m.**

**Memorial Union Building**

The All Colleges Undergraduate Research Symposium showcases students from all disciplines. Students present their faculty-mentored projects in one of two interactive poster sessions, or in one of three oral presentation sessions. University-wide participants come from a variety of disciplines.

**MUB, Room 330**

**Asian Studies: Managing Economic Growth**

Adviser: Lawrence Reardon  
Moderator: Patrick Baga

Elizaveta Baykova  
Political Science  
How Excessive Borrowings and Reckless Investments Endanger Chinese Economy  

Tristen Bianco  
Political Science  
Tokyo 2020: Resurgence of Japan  

Tyler Gorman  
Political Science  
The Widened Gap: Increased Income Inequality in China  

Zi Wang  
Political Science  
Public Management under International Crisis: China’s Emergency Mechanism Respond to SARS  

William Wolfe  
Political Science  
Digital Cloak and Dagger: China’s Cyber Espionage under Xi Jinping
MUB, Room 332

Asian Studies: When East Meets West

Moderator: Cui Wenjin

Ryan Bowring
Computer Science
Divergent Views of Order: A Comparison of Confucianism and Daoism
Adviser: Wenjin Cui

Courtney Cohan
Justice Studies, Political Science
Different Understandings of Ideas in Classical and Christian Societies
Adviser: Susan Siggelakis

Drake Dumont
Linguistics
The Daoism and Confucianism of Kongming
Adviser: Wenjin Cui

Ethan Finnell
History
The Issei in America
Adviser: Yan Lu

Andrew Nemits
Political Science
Adapting Foreign Religion to China’s Needs
Adviser: Lawrence Reardon

Margaret Quick
Political Science, Women’s Studies
Women Rule, but in Which World? Examining the Effects of Classicalism versus Christianity on the Power and Influence of Shakespeare’s Women
Adviser: John Kayser

MUB, Room 336

Communication: Public Speaking Performances

Adviser and Moderator: R. Michael Jackson

Ellen Gibbs
Communication
A Celebration of Nurses

Lihua Huang
Communication
How a Man Can Use Makeup

Mira Kehler
Communication, Spanish, The Chaos from Which It Comes

Stephanie Latvis
Communication
Poetry Reading

Robert Maynard
Communication, Linguistics
A Reading of “[the] north[ern] [of] Ireland” by Padraig O’Tuama

Crystal Napoli
History, Justice Studies
Global Cooperation and the Galapagos Islands

Hayden Proborowski
International Affairs, Political Science
Poland First: Analyzing the Polish Response to EU Migrant Quotas

Aaron Promer
History, International Affairs
Galapagos: Service Learning in Quito, Ecuador

MUB, Room 337

Environments, Texts, and Images in the 19th-Century U.S.

Adviser and Moderator: Brigitte Bailey

Gabrielle Greaves
English, Women’s Studies
Indian Boarding Schools: An Extension of Landscape Policies in 19th-Century America

Catherine Siros
English
Jacob A. Riis: Reaching to the Larger Audience

Elizabeth Trautz
English
Interpretations of the American Wilderness

MUB, Room 233

Global Cooperation: Galapagos Islands and Immigration Issues

Adviser and Moderator: Alynna Lyon

Jonathan Eyberse
Political Science
Radicalization in Brussels

Christian Mayoral
History
Galapagos: Representing Russia on San Cristobal

MUB, Room 237

Environments, Texts, and Images in the 19th-Century U.S.

Adviser and Moderator: Brigitte Bailey

Gabrielle Greaves
English, Women’s Studies
Indian Boarding Schools: An Extension of Landscape Policies in 19th-Century America

Catherine Siros
English
Jacob A. Riis: Reaching to the Larger Audience

Elizabeth Trautz
English
Interpretations of the American Wilderness

MUB, Room 338

Multidisciplinary Session VI: Inclusion, Diversity, Multiculturalism, and the Arts

Moderator: Kristen Butterfield

Bethany Cooper
English
Testing the Uniqueness of Black Acting Methods
Advisers: Deborah Kinghorn, David Richman

Daniel Faella
Art: Studio Art
Musical Amalgamations: Studying the Influence of Jazz and Blues in Traditional Celtic Music
Adviser: David Newsam

Celine Guedj
Justice Studies, Sociology
Expanding a Mobile Application to Fight Sexual Violence on Campus
Adviser: Sharyn Potter

Evan Smith
Justice Studies, Sociology
LGBTQIA+ University Students and Likelihood of Self-Harm
Adviser: James Tucker
**MUB, Room 340**

**Multidisciplinary Session VII: Studies in Science, Medicine, and Engineering**

Moderator: Jeanne Sokolowski

Chelsea Evankow
Biology, Women's Studies
Public Health and Education in Zambia
Adviser: Casey Golomski

Timothy Gray
Neuroscience and Behavior
Examination of Phase-Amplitude Coupling during Working Memory Updating and Interactions with Goal-Directed Attention Ability
Adviser: Robert Ross

Erin Judge
Nursing
The Bonding and Infant Feeding Experiences of Mothers Who Deliver at a Baby-Friendly Initiative Certified Community Hospital
Adviser: Alyssa O’Brien

Andrew Masters
German, Mechanical Engineering
Investigation of Motion Cueing Algorithms on the IMS Driving Simulator
Advisers: Jan Bohn, Philipp Erler, Stephan Rinderknecht

Anne Steckowych
Nursing
Narcan Administration by New Hampshire Law Enforcement Agencies
Adviser: Kerry Nolte

**MUB, Room 334**

**The Next Generation of Changemakers: Semester in the City Fellows**

Advisers: Faina Bukher, Fiona Wilson
Moderator: Faina Bukher

Rebecca Barton
Communication, Women's Studies
An Experiential Learning Program in Social Change: My Semester in the City

Matthew Fratamico
Communication, Justice Studies
Corporate Accountability International: Using Communication Skills to Stop Life-Threatening Abuses

Rebecca Jerome
Psychology
Freedom House: Working towards Changing the Fabric of High-Need Communities

Jung Hoon Kim
Psychology
Doc Wayne: Fusing Sports and Therapy to Heal and Strengthen At-Risk Youth

**MUB, Room 321**

**Research from the Surveillance Society**

Moderator: Kevin Healey

Mhairi Baird
Communication
It's a Shame to be Shamed
Adviser: Josh Lauer

Bailey Marshall
Communication, Women's Studies
Bathroom Bills and the Surveillance of Transgender Bodies
Adviser: Josh Lauer

Jamie Smith
Communication
Surveilling Black Lives Matter: Controlling People of Color in the Social Media Age
Adviser: Josh Lauer

Jenna Ward
Communication
Protest Policing and the Privatization of Surveillance
Adviser: Josh Lauer

Sydney Whittum
Anthropology
The Ideology of Voluntourism: An Autoethnographic Look at How We Communicate Our Values
Adviser: Edward Reynolds

**The Naked Arts—Creativity Exposed**

**Act III**

Friday, April 20
12:15–1 p.m.
Memorial Union Building, Theatre I

This event exposes the inner creative process of artists working in various disciplines. Presenters will describe the process, research, and other creative aspects undertaken to bring an artistic creation from initial inspiration to the stage or gallery. This may include a performance or excerpts from their work to illustrate their creative scholarship.

Jennifer Brisebois
Marketing, Theatre
Dance Is a Weapon: Exploring the Historical Relationship between Politics and the Cultural Significance of Dance
Adviser: Gay Nardone

Juliana Good
Music Education
Learning to Listen to the World: Music Pedagogy in the 21st Century
Adviser: Rose Pruiksma

Anh Vu
Finance
CommonWealth Kitchen: Building Great Food Companies through Shared Spaces and Business Assistance
### College of Health and Human Services (CHHS) Grimes Award Competition

**Friday, April 20**  
1–4 p.m.  
**Pettee Hall, Room 114**

Jack and Marianna Grimes and family, all UNH graduates, endowed the funds for this celebration of excellence in undergraduate research. The oral presentation competition includes finalists who have been selected by CHHS faculty after rigorous scientific review of written proposals.

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<thead>
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<tbody>
<tr>
<td>Olivia Black</td>
<td>Nursing</td>
<td>From Care Home to Community: The Impact of Connection on Dutch Elder Care and Well-Being</td>
<td>Adviser: Michele Loos</td>
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<tr>
<td>Brittany Catcher</td>
<td>Kinesiology</td>
<td>A Comparison of Head Impact Exposure in Two Youth Football Programs in Southern New Hampshire</td>
<td>Adviser: Erik Swartz</td>
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<tr>
<td>Christopher Cleary</td>
<td>Kinesiology</td>
<td>Postactivation Potentiation during Blood Flow Restricted Complex Training</td>
<td>Adviser: Summer Cook</td>
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<tr>
<td>Mikaela Frechette</td>
<td>Kinesiology</td>
<td>Corticomotor Function during Blood Flow Restricted Arm Crank Ergometry</td>
<td>Adviser: Summer Cook</td>
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<tr>
<td>Fallon Greene</td>
<td>Kinesiology</td>
<td>Core Stability and Performance</td>
<td>Adviser: Summer Cook</td>
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<tr>
<td>Kayla Hansen</td>
<td>Communication Sciences and Disorders</td>
<td>Sustained Attention and Fatigue in Adults with Concussions</td>
<td>Adviser: Amy Ramage</td>
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<tr>
<td>Katherine Hyson</td>
<td>Neuroscience and Behavior</td>
<td>Sleep Quality's Effect on EEG Activity Underlying Information Processing during Motor Control</td>
<td>Adviser: Ronald Croce, Robert Ross</td>
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<tr>
<td>Marin Strong</td>
<td>Nursing</td>
<td>Factors Influencing Care-Seeking Behaviors for Childhood Illness by Mothers in Nepal</td>
<td>Adviser: Gene Harkless</td>
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### Languages, Literatures, & Cultures (LLC) Department Undergraduate Research Conference

**Friday, April 20**  
1–5 p.m.  
**Murkland Hall, Room 202**

The Department of Languages, Literatures, and Cultures (LLC) hosts an undergraduate research conference comprised of oral presentations, poster presentations, a foreign language award ceremony, and a reception.

<table>
<thead>
<tr>
<th>Stewart Arend</th>
<th>Marine, Estuarine and Freshwater Biology</th>
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<tbody>
<tr>
<td>Bernard Broni</td>
<td>Psychology</td>
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<td>Tyler Sebastian</td>
<td>Environmental Conservation and Sustainability</td>
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<td>Comparing Minimally Counter-Intuitive Ideas Based on Levels of Complexity</td>
<td>Adviser: Paul Robertson</td>
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<td>Mariah BessetteBranch</td>
<td>Ocean Engineering</td>
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<td>Camryn Luby</td>
<td>Humanities</td>
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<td>Zanna Prentiss</td>
<td>English</td>
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<td>Does the Degree of Counterintuitive Ideas within a Sentence Increase the Amount and/or Kind of Religious Inferences in the Interpretation of an Image?</td>
<td>Adviser: Paul Robertson</td>
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<tr>
<td>Aurelia Blackstock</td>
<td>Spanish, Women's Studies</td>
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<tr>
<td>Friendship among Women</td>
<td>Adviser: Lori Hopkins</td>
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<td>Isabel Bowe</td>
<td>Communication Sciences and Disorders</td>
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<td>Adviser: John Chaston</td>
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<td>Jubilee Byfield</td>
<td>Sociology</td>
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FRIDAY 4/20

LANGUAGES, LITERATURES, & CULTURES (LLC) DEPARTMENT UNDERGRADUATE RESEARCH CONFERENCE, CONTINUED

Dylan Crupi
Anthropology
Katherine Gleason
Social Work
Counter-Intuitiveness and Agency
Detection and Their Role in Perceiving Supernatural Agents in Memorability Tests
Adviser: Paul Robertson

Krysta Gingue
International Affairs, Political Science
On the Outskirts: How the French Suburbs Face Disproportionate Inequality
Adviser: Helina Beyene

Charlotte Harris
Communication, Spanish
Populism and the Press: Investigating the Relationship between Government and Media in Latin America
Adviser: Michael Soha

Calvin Hichens
Justice Studies, Psychology
Minimally Counter-Intuitive Ideas: Are They Remembered?
Adviser: Paul Robertson

Melissa Hurlburt
English, Spanish
Too Surreal to Be Real? A Study of Surrealism in the Filmography of Luis Buñuel
Adviser: Carmen Garcia-Rasilla

Abigail Lehner
Communication, International Affairs
Rolling mit dem Rollstuhl (Rolling with the Wheelchair)
Adviser: Helina Beyene

Michael Miller
Biochemistry, Molecular and Cellular Biology
Analysis of Innate Preferences for Indicators of Agency in Choice-Based Scenarios
Adviser: Paul Robertson

Gregory Morse
Classics
Andrew O’Neil
Information Technology
Adviser: Paul Robertson

Isabella Mutch
Spanish
Observations of Contemporary Puerto Rico
Adviser: Lori Hopkins

Gabrielle Scott
English Literature
Anna Stockman
Environmental Conservation and Sustainability
Religious Signalling: Do Costly Religious Signals Incentivize Additional Interest in Groups?
Adviser: Paul Robertson

Peter T. Paul College of Business and Economics
Paul J. Holloway Prize Innovation to Market Competition

Bud Albin Challenge Round

Friday, April 20
1–4 p.m. and 4–8:15 p.m.
Peter T. Paul College Building and UNH ECenter

The Bud Albin Challenge acts as the Semi-Final Round of the Holloway Prize Innovation to Market Competition. Twenty teams present their business concepts to a panel of industry judges. From here, six will be selected to move on to the Championship Round.

Honors English Undergraduate Research Conference

Friday, April 20
1:30–4 p.m.
Hamilton Smith Hall, Rooms 150 and 205

To complete Honors-in-English, students must conduct a semester-long research project, culminating in a 30–40 page senior thesis. The Honors English Undergraduate Research Conference provides these students and students in the linguistics program with the opportunity to share their work with their fellow students, professors, and families. The presentations include poetry, autobiographical writing, journalism, and scholarship on literary texts from several different centuries.

Tali Cherim
English, Women’s Studies
Healing after the Holocaust: The Value of Holocaust Poetry as Trauma Therapy for the Writer
Adviser: Diane Freedman

Lilah Cherim
English
Physical Illness in the Graphic Medium
Adviser: Monica Chiu

Andrea Engen
English Teaching
Teaching and Learning from Culturally Diverse Literature
Adviser: Alecia Magnifico

Melissa Hurlburt
English, Spanish
The Damsel Can Rescue Herself: Subverting Common Literary Tropes of the Fantasy Genre
Adviser: Jaed Coffin

Connor Mullins
English Teaching
Tracing Writing Techniques through College and High School
Adviser: Alecia Magnifico
Alicia Ouellette  
English Literature  
*A Community of Musickers*  
Adviser: Jaed Coffin

Madison Pierce  
English Teaching  
Adviser: Dennis Britton

Amanda Plante  
English  
*F(ill)ing the Spaces between Us: Graphic Memoir as Mental Illness Self-Advocacy*  
Adviser: Monica Chiu

Troy Grimsley  
Music Education  
*Three Short Pieces for Woodwind Quintet (2018)*  
Adviser: Michael Annicchiarico

Owen McCarthy  
Music  
*Piano Trio No.1 for Contrabassoon, Piccolo and Piano*  
*Snare Duet*  
Adviser: Ryan Vigil

Jessica Ross  
Music Education  
*Halfway Here*  
*Remember, Love*  
Advisers: Michael Annicchiarico, David Ripley

Yu-han Sung  
Political Science  
*Awakening—Piano Solo*  
Adviser: Michael Annicchiarico

Bryan Whittier  
Music  
*“Flowers in Winter” Original Composition*  
Adviser: Michael Annicchiarico

Sharlene Amador  
Biochemistry, Molecular and Cellular Biology  
*Epidemiology and Prevalence of Methicillin-Resistant Staphylococcus Species in Veterinary Animals*  
Advisers: Cheryl Andam, Robert Gibson, David Needle, Joshua Smith

Bailey Basel  
Animal Science  
*Plasma Response of Histidine and Histidine Metabolites to Incremental Amounts of Abomasal Infusion of Histidine in Lactating Dairy Cows*  
Advisers: Andre Brito, Nancy Whitehouse

Kaitlyn Baillargeon  
Environmental Sciences  
*What Is Forest Diversity?*  
Adviser: Scott Ollinger

Hailey Carter  
Biology  
*Emily Ray*  
Marine, Estuarine and Freshwater Biology, Neuroscience and Behavior  
*The Role of Daphnia in the Production of Aerosols*  
Advisers: James Haney, Patricia Jarema

Beau Garcia  
Zoology  
*Quantifying the Reproductive Success of a Declining Shrubland-Obligate Songbird, the Prairie Warbler (Setophaga discolor), Breeding in an Active Gravel Pit in Southeastern New Hampshire*  
Adviser: Matthew Tarr

Lina Heinrichs  
Biochemistry, Molecular and Cellular Biology  
*Mapping Sediment Microbial Community Structure in the Stellwagen Bank National Marine Sanctuary to Facilitate Functional Genomic Studies*  
Advisers: Semra Aytur, John Bucci

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**Student Composers’ Concert**

**Friday, April 20**  
8 p.m.–10 p.m.  
Paul Creative Arts Center, Bratton Recital Hall

The UNH Student Composers’ Concert is an annual event that features the music of undergraduate and graduate students of the Music Department. The music is newly composed, and is almost exclusively performed by fellow music students.

Vajl Adamkowski  
Music Education  
*Walk along the River (Sonata for Flute and Piano)*  
Adviser: Michael Annicchiarico

Louise Chartron  
Music  
*Miniature No. 3, for Two Pianos*  
*Violin Sonata, Mvt. 1 Improvisation*  
*Dance, for Violin and Violincello*  
Adviser: Michael Annicchiarico

Eustaquio Dones  
Music Education  
*Trombone Quartet*  
Adviser: Michael Annicchiarico

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**COLSA Undergraduate Research Conference**

**Oral Presentations**

**Saturday, April 21**  
8:30 a.m.–10:30 a.m.  
Memorial Union Building, Theatre II

Student presentations at the COLSA URC are based on research conducted in any of the departments within the College of Life Sciences and Agriculture. Registrants will be notified by the COLSA URC committee if they are selected for an oral presentation.
COLSA Undergraduate Research Conference

Poster Presentations

Saturday, April 21
10:45 a.m.–12:15 p.m.
Memorial Union Building, Granite State Room

Student presentations at the COLSA URC are based on research conducted in any of the departments within the College of Life Sciences and Agriculture. Research ranges from field studies to molecular biology to genomics studies.

Megan Alix
Biomedical Science
Brix-Acid Balance in UNH-Bred Organic Strawberries
Adviser: Lise Mahoney

Sharlene Amador
Biochemistry, Molecular and Cellular Biology
Epidemiology and Prevalence of Methicillin-Resistant Staphylococcus Species in Veterinary Animals
Advisers: Cheryl Andam, Robert Gibson, David Needle, Joshua Smith

Cassandra Amarello
Genetics
Optimization of DNA Extraction by Modification of Elution Period Protocols in Three DNA Extraction Kits
Adviser: Adrienne Kovach

Marissa Anderson
Genetics, German
Metabarcoding Investigation of Extensive Dune Grass Die-Off in the Northeast
Advisers: Gregg Moore, William Thomas

Kaitlyn Baillargeon
Environmental Sciences
What is Forest Diversity?
Adviser: Scott Ollinger

Anna Bannon
Monique Duchesne
Jade Long
Madeline Murphy
Community and Environmental Planning
Tyler Smith
Community and Environmental Planning, Ecogastronomy
Benjamin Touchette
Community and Environmental Planning, Environmental and Resource Economics
First Impressions: Dover
Advisers: Molly Donovan, Mary Friedman, Cathryn Hancock

Cameron Barnes
Zoology
Investigating the Presence of Magnetoreception and Electroreception in the American Lobster (Homarus americanus)
Adviser: Winsor Watson

Kathryn Bennett
Environmental Sciences, Sustainability
How Can the University of New Hampshire Reduce Its Nitrogen Footprint?
Adviser: John Aber

Audrey Berenson
Biomedical Science
The Significance of Particle-Associated Vibrio parahaemolyticus in Oyster Contamination
Adviser: Stephen Jones

Samantha Bogdahn
Neuroscience and Behavior
Testing the Sensory Ability of Canis lupis familiaris to Distinguish between Human Identical Twins
Adviser: Leslie Curren

Julia Boisselle
Nutrition
Relationship between Binge Drinking Frequency and Diet among College Students
Adviser: Jesse Morrell

Mason Caceres
Environmental Sciences
Storm Sediment Transport through the Parker and South Middleton Reservoirs to the Plum Island Estuary in Northeastern Massachusetts
Adviser: Wilfred Wollheim

Dylan Cairns
Robert Lafreniere
Marine, Estuarine and Freshwater Biology
Terning a New Leaf: The Influence of Plant Community Characteristic on Common and Roseate Tern Nesting Preference and Fledgling Success
Adviser: Gregg Moore

Leah Calderazzo
Psychology
Comparing Populations of Cortical Activity While Rats Perform Decision-Making Tasks
Advisers: Miranda Francoeur, Brett Gibson, Robert Mair

Hailey Carter
Biology
Emily Ray
Marine, Estuarine and Freshwater Biology
The Role of Daphnia in the Production of Aerosols
Advisers: James Haney, Patricia Jarema

Thomas Caveney
Nutrition
Comparison of Diet Quality among College Students with and without a Disability
Adviser: Jesse Morrell

Nicole Charron
Zoology
The Effect of a High Calcium Diet on House Cricket (Acheta domesticus) Mobility
Adviser: Leslie Curren
Kevin Marc Dioneda
Biochemistry, Molecular and Cellular Biology
The Diversity of Streptomyces in Common Earthworms (Lumbricus rubellus)
Adviser: Cheryl Andam

Jake Donahue
Biomedical Science
Investigating the Interplay between Angiogenic Regulators in the Developing Bovine Corpus Luteum
Adviser: Paul Tsang

Maura Donovan
Nutrition
Evaluating Perceptions of Dietary Quality between Body Composition Measurements Using Air Displacement Plethysmography in Male Collegiate Athletes
Adviser: Kevin Pietro

John Durant
Genetics
Genetic Interactions of Protein Phosphatase 2A Genes in Arabidopsis thaliana Treated with Abscisic Acid
Advisers: Estelle Hrabak, Megan Thompson

Yusuf Ebrahim
Biomedical Science
Effects of the Mortalin Inhibitor MKT-077 on the Tumor Suppressor p53 in Neuroblastoma IMR-32 Cells
Advisers: Paul Tsang, Charles Walker

Megan Esperance
Biochemistry, Molecular and Cellular Biology
Estimating the Structures of Cnidarian Phototransduction Proteins Using Homology Mapping
Adviser: David Plachetzki

Natasha Fansiwala
Neuroscience and Behavior
Effective Connectivity Post-Concussion
Adviser: Robert Ross

Benjamin Fehr
Mathematics, Sustainable Agriculture and Food Systems
Root Foraging Strategies of Maize and Four Common Agricultural Weeds
Advisers: Carolyn Lowry, Richard Smith
Hayleigh Hildebrand  
Environmental Sciences, Russian  
Weed Community Response to Tillage and Pesticide Seed Treatment  
Advisers: Richard Smith, Nicholas Warren

Nhen Hunter  
Genetics  
Transgenic Hydra: Editing Opsin with CRISPR  
Adviser: David Plachetzki

Adam Huynh  
Biomedical Science, Neuroscience and Behavior  
Regulation of the Angiogenic Inducer, CCN1, by Heat-Inactivated Serum, in Human Tumor Granulosa Cells  
Adviser: Paul Tsang

Katherine Hyson  
Neuroscience and Behavior  
Sleep Quality's Effect on EEG Activity Underlying Information Processing during Motor Control  
Advisers: Ronald Croce, Robert Ross

James Ippolito  
Nutrition  
Relationship between Multivitamin/ Mineral Supplement Use and Presence of Metabolic Syndrome Biomarkers among College Students  
Adviser: Jesse Morrell

Abigail Jenson  
Neuroscience and Behavior  
Lily Josephs  
Biomedical Science  
CRISPR/Cas9 Aided Gene Editing of Hydra magnipapillata  
Adviser: David Plachetzki
Clayton Jerry
Anderson Thompson
Biochemistry, Molecular and Cellular Biology
Investigation of Histone Modifications on Preadipocyte 3T3 Cells
Adviser: Feixia Chu

Amanda Kabel
Biomedical Science
Testing the Effectiveness of Therapeutic Agents on Neuronal Primary Cilia
Adviser: Xuanmao Chen

Danielle Kalmbach
Environmental Engineering
Rainbow Trout Aquaculture Digester
Adviser: Todd Guerdat

Courtney Kamyk
Animal Science
Boldness and Natural Behaviors in the African Lion (Panthera leo): How Are They Related?
Adviser: Andrew Conroy

Kiley Kennedy
Neuroscience and Behavior
The Effects of Pollen Composition on Growth and Development in the Native Bee, Ceratina calcarata
Advisers: Sarah Lawson, Sandra Rehan

Kira Kenny
Zoology
Lying Behaviors in Holstein and Jersey Breeds of Cows
Adviser: Leslie Curren

Victoria Kleiner
Biomedical Science
Genetic Tools in Frankia
Adviser: Louis Tisa

Elise Lacasse
Nutrition
Relationship between Reported Sleep and Physical Fitness among College Students
Adviser: Jesse Morrell

Sarah Lafleur
Biomedical Science
Eavesdropping on Grassland Ecosystems: Investigating Disturbance Effects on Bat Distributions across a Mixed-Use Tallgrass Prairie
Adviser: Daniel Howard

Megan Laforge
Biomedical Science
Connor Perry
Biology
Using qPCR to Evaluate the Toxicity of Lake Aerosols
Advisers: James Haney, Patricia Jarema

Emily Landry
Wildlife and Conservation Biology
Evaluating the Effect of Baiting on White-Tailed Deer Harvest in New Hampshire
Advisers: Daniel Bergeron, Peter Pekins

Courtney LeCuyer
Animal Science
The Effects of Feeding an Organic-Certified Milk Replacer to Dairy Calves on Body Weight and Growth
Adviser: Andre Brito

Kayla Lent
Laura Nussbaum
Wildlife and Conservation Biology
How Do Female-Biased Sex Ratios Influence Male Resource Defense Behavior in Hissing Cockroaches?
Advisers: Leslie Curren, Daniel Howard

Katherine Loiselle
Lindsay March
Colin McGonagle
Biomedical Science
Phylogenetic Diversity of Antibiotic-Producing Streptomyces Bacteria in the Gut of Lumbricus Earthworms
Adviser: Cheryl Andam

Kaelina Lombardo
Genetics
Improving Assembly Completeness with Shmlast
Adviser: Matthew MacManes

Brianna Looney
Biomedical Science
Do Lobsters Have Extraocular Photoreceptors?
Adviser: Winsor Watson

Kyle Macdonald
Environmental Sciences
Using Leaf Traits to Estimate Photosynthetic Capacity
Advisers: Scott Ollinger, Andrew Ouimette

Shrimika Madhavan
Genetics, International Affairs
Acrolein Toxicity in Humans and Plants
Adviser: Subhash Minocha

Grant Magee
Environmental Sciences
Darian Tilton
Biology
Abiotic Factors Affecting Collection Efficiency of Microcystin Aerosols
Adviser: James Haney

Timothy Matroni
Biology
Effect of Estradiol on Polyamine Levels in Arabidopsis thaliana
Adviser: Subhash Minocha

Kristina McCormack
Alissa Shea
Environmental Sciences
Investigating the Effects of BMAA Exposure of the Northern Gannet (Morus bassanus) and the Great Shearwater (Puffinus gravis)
Advisers: James Haney, Patricia Jarema

Danielle McGinty
Biomedical Science
Characterization of a Protein S-Acyltransferase Mutant, pat3, from Arabidopsis thaliana
Adviser: Estelle Hrabak

Natalie Monteiro
Neuroscience and Behavior
The Effects of Mediodorsal Thalamic Lesions on mPFC Activity during a Delayed Non-Matching to Position Task
Adviser: Robert Mair

Matthew Morris
Wildlife and Conservation Biology
Masking Effect of Anthropogenic Noise in Predatory Detection
Adviser: Leslie Curren

Mary Mullins
Biomedical Science
Analysis of Whelk (Busycotypus canaliculatus) Circadian Rhythms of Locomotion
Adviser: Winsor Watson
Kevin Newton
Wildlife and Conservation Biology
Comparing Bird Communities in Transmission Line Rights-of-Way Dominated by Native Shrubs or by a Mixture of Native and Non-Native Shrubs in Maine and New Hampshire: Preliminary Results from 2017
Adviser: Matthew Tarr

Megan Presutti
Equine Studies
Effects of Equine Musculoskeletal Conformation on Athletic Performance
Adviser: Sarah Rigg

Jessica Sexton
Animal Science
Lying Times, Feed Particle Size, and Ruminating Correlated with Milk Production in Dairy Cattle
Adviser: Peter Erickson

Mary Sherman
Sustainable Agriculture and Food Systems
Evaluation of the After-School Program “Healthy Me, Healthy Earth”
Adviser: Joanne Burke

Celeste Souza
Biomedical Science
Degradation of Dioxin-Like Compounds by Frankia
Adviser: Louis Tisa

Jessica Ohrenberger
Zoology
To Bend, or Not to Bend? Hinged Teeth in the Goosefish (Lophius americanus) Have Multiple Functions and Two Distinct Lever Systems
Advisers: Jessica Bolker, Stacy Farina

Nicholas Ritto
Genetics
Taylor Schwartz
Biochemistry, Molecular and Cellular Biology
Diversity and Antibiotic Activity of Streptomyces Bacteria: Searching for Super-Killer Bacterial Strains
Adviser: Todd Guerdart

Athena Ryan
Marine, Estuarine and Freshwater Biology
A Comparative Analysis on Various Feed Types on the Reproductive Success of Ornamental Clownfish
Adviser: Michael Chambers

Chloe Schmir
Nutrition
A Preliminary Nutritional Analysis of Food Menus in Local Older Adult Assisted Living Facilities
Adviser: Kevin Pietro

Alissa Scinto
Animal Science
Molecular Diet Analysis of Hawaiian Birds
Adviser: Jeffrey Foster

Athena Ryan
Genetics
Isoform Swapping: Can Members of a Gene Family Be Functionally Interchanged?
Adviser: Estelle Hrabak

Joseph Poggi
Wildlife and Conservation Biology
The Effects of White Nose Syndrome (Pseudogymnoascus destructans) on the Health of Myotis lucifugus in Summer Colonies in the Northeast
Adviser: Jeffrey Foster

Ivey Telles
Genetics
Assessing the Quality of the Oyster River Protocol for Transcriptome Assembly
Adviser: Matthew MacManes

Kadianne Tommasi
Marine, Estuarine and Freshwater Biology
The Interspecific Interactions and Habitat Preferences of Harbor Seals (Phoca vitulina concolor) and Gray Seals (Halichoerus grypus) on Duck Island and Ledges, ME
Advisers: Andrea Bogomolni, Nadine Lysiak, Lisa Sette
Kathleen Wadiak  
Wildlife and Conservation Biology  
Use of Transmission Line Rights-of-Way Managed by Mechanical Mowing or Selective Herbicide Treatment by Shrubland-Dependent and Mature-Forest-Dependent Songbirds in Maine and New Hampshire: Preliminary Results from 2017  
Adviser: Matthew Tarr

Nicole Williamson  
Ecogastronomy, Environmental Sciences  
Designing a Biofilter for Ammonia Removal at a Commercial-Scale Compost Facility  
Advisers: John Aber, Allison Leach

Tracy Yeung  
Biomedical Science  
GLI3 Mediated Inflammation in Human and Mouse Cells  
Adviser: Sherine Elsawa

### UNH Manchester  
URC Engineering Technology Day

**Senior Project Presentations**

**Friday, April 27**  
9 a.m.–4 p.m.  
Pandora Mill, 1st Floor and Room 201  
88 Commercial St., Manchester

The UNHM Engineering Technology Program presents its annual Senior Project Presentations day. This event is the culmination of an academic year effort where full-time seniors formally present their projects to peers, faculty members, representatives and technical advisers of sponsoring companies, and special guests.

Paymon Adl-Zarabi  
Mechanical Engineering Technology  
Apollo Seiko Soldering Robot Qualification  
Adviser: Theodore Tavares

Daniel Bagley  
Cory Beauchesne  
Steven Hogan  
Christopher Maxwell  
Kyle Peterson  
Mechanical Engineering Technology  
Rotating Parts Washer  
Adviser: Robert Arredondo

Jose Botelho  
Mechanical Engineering Technology  
Fixture/Tooling Design and Initial Optical Testing for a 25-230mm Infrared Zoom Lens Assembly  
Adviser: Theodore Tavares

David Burke  
Mechanical Engineering Technology  
Absolute Robot Inc. Robotic IMM Workcell  
Adviser: Robert Arredondo

Ethan Cullity  
Mechanical Engineering Technology  
Flexible Belt Technology  
Adviser: Theodore Tavares

Jonathan Danevich  
Mechanical Engineering Technology  
Camp Stove Fuel Heater  
Adviser: Theodore Tavares

Jonathan Ferguson  
Benjamin Wood  
Mechanical Engineering Technology  
Automating the Substantial Reproduction of Microscopic Subjects  
Adviser: Theodore Tavares

Nathan Hall  
Electrical Engineering Technology  
Autonomous Quad-Rotor Formation Design  
Adviser: Christopher LeBlanc

Anna Maguire  
Electrical Engineering Technology  
Drive-by-Wire Power Steering Demo  
Adviser: Christopher LeBlanc

Reinhardt Maltby  
Mechanical Engineering Technology  
Mechatronics Trainer  
Adviser: Theodore Tavares

John McIntosh  
Electrical Engineering Technology  
Burndy Capstone Project—RFID  
Adviser: Christopher LeBlanc

Darrel Morganelli  
Electrical Engineering Technology  
Allegro Test Stand System Analysis  
Adviser: Christopher LeBlanc

Cody Roberge  
Electrical Engineering Technology  
Internal Communication Application  
Adviser: Christopher LeBlanc

Theofilos Skaleris  
Mechanical Engineering Technology  
Smart Tools  
Adviser: Robert Arredondo

Aurora Van De Water  
Electrical Engineering Technology  
Spark Coil Test: Collaborative Robot Automation Feasibility  
Adviser: Christopher LeBlanc

Patrick Wiley  
Electrical Engineering Technology  
Temperature Control of Laser Diodes  
Adviser: Christopher LeBlanc

Tyler Wing  
Mechanical Engineering Technology  
Static v. Dynamic Lamp Life Test  
Adviser: Theodore Tavares
Psychology Department
George M. Haslerud Undergraduate Research Conference

Friday, April 27
1:30–5 p.m.
McConnell Hall, Rooms 220 and 245

The George M. Haslerud URC, named for the late Professor Emeritus of Psychology, recognizes and celebrates undergraduate research conducted by Honors psychology students. Students present their original research projects before an audience of UNH faculty, staff, graduate students, fellow undergraduates, and friends and family.

Kelly Davis
Psychology
*Treatment Options for Opioid Addiction: Efficacy and Availability*
Adviser: Elizabeth Caldwell

Casey Dwyer
Justice Studies, Psychology
*Jurors’ Perception of the Blue Wall of Silence*
Adviser: Ellen Cohn

Madison Fowler
Psychology
*Memory for Childhood Episodes*
Adviser: Michelle Leichtman

Lauren Irish
Psychology
*Childhood Event Memories*
Adviser: Michelle Leichtman

Jacqueline Klatt
Psychology
*The Effect of the Bringing in the Bystander Program on Self-Reports of Perpetration Behavior*
Adviser: Victoria Banyard

Alyssa Kolbert
Psychology
*Parents vs. Parties: The Effect of Parental Communication on Behavior*
Adviser: Ellen Cohn

Magdalyne Kucharski
Justice Studies, Psychology
*Mini Reminiscence Bumps: Memories of Middle Childhood*
Adviser: David Pillemer

Abby Leibowitz
Psychology
*You Can’t Sit with Us: Popularity, Peers, and Rule-Violating Behavior*
Adviser: Ellen Cohn

Jessica Peterson
Justice Studies, Psychology
*Gender and Occupational Stereotypes in the Courtroom*
Adviser: Ellen Cohn

Jacqueline Vaquerano
Justice Studies, Psychology
*Trends and Terminology: An Analysis of the Media’s Coverage of the Commercial Sexual Exploitation of Children*
Adviser: Robert Eckstein

Peter T. Paul College of Business and Economics First-Year Innovation and Research Experience (FIRE) URC

Poster Presentations & Oral Presentations

Saturday, April 28
9 a.m.–3 p.m.
Peter T. Paul College Building

FIRE is an integrated, team-based, and game-like experience for first-year Paul College students. Through a series of challenges, students develop business plans that are presented at this year-end finale, which features poster and oral presentations on students’ business plans and concludes with a "Grand Challenge Round."

Grand Challenge: Artificial Intelligence

Team: Charlie’s Angels
Adviser: Charles Andes

Mohammed Abukhalaf
Analytical Economics
Rachel Barbieri
James Cautley
Brian Chagnon
Ryan Coxen
Patrick Flaherty
Nicholas Fothergill
Andrew Gaudette
Jake Hewins
Elena Kapolis
Samuel Lepordo
Hugh McMackin
Cody Neal
Aidan O’Connor
Matthew Paolucci
Charlotte Shepherd
Alexander Stodolski
Victoria Tenaglia
Brenden Theroux
Benjamin Walsh
Christopher Watson
Business Administration
Gillian Scannell
Hospitality Management

Team: 21 Savages
Adviser: Caroline Muse

Robert Andreasse
Griffin Auciello
Zachary Augusta
Matthew Bean
Michael Cohen
Anthony DeGirolamo
Jessica Hanley
Christopher Houde
Evelina Izedbski
Brian Kofman
Grace LaPierre
Zachary Lachance
John Mahoney
Thomas Modelevsky
Joseph Paige
Jennifer Quigley
Kyle Rembis
Isaac Sheahan
Anna Stoll
Danielle Szwedski  
Business Administration  

Katelyn Schillace  
Business Administration, Finance

**Team: 007**
Adviser: Caroline Corsetti

Jack Aylward  
Matthew Benoit  
Haley Bridgeman  
Mark Chrysafidis  
Gina DeCinto  
Brendan Donaghey  
Olivia Glick  
John Hurley  
Kyle Jalbert  
Luke Johnson  
Abbigale Montgomery  
Jessica Nelson  
Connor O’Neil  
Jacob Penttinen  
Colin Quirk  
Laura Zubricki  
Business Administration  

Michael Ciccotelli  
Management  

Tia Delampan  
Business Administration, Marketing  

Samuel Finn  
Finance

**Team: R15ky Business**
Adviser: Samantha Blaine

Jeremy Bates  
Finance  

Lauryn Cappuccio  
Brendan Erickson  
Joslin Gilbo  
Ryan Harrington  
Gabrielle Langlois  
Cameron MacRae  
Elizabeth Marsden  
Lindsey McGinnis  
William Miller  
Owen Novak  
Nicholas Papasodoro  
Zachary Rowen  
Alysa Sapp-Consaul  
Devin Sawtelle  
Michael Sica  
Samuel Stoehrer  
Haylee Walsh  
Business Administration

**Team: FIRE Goodell 2.0**
Adviser: Kevin Johnson

Carolyn Carlisle  
Meghan Carroll  
Kayla Coppola  
Mikayla Ferguson  
Alexander Heye  
Christine Knox  
Donald MacCallum  
Thomas McCormick  
Dillon Murphy  
Hannah Phelps  
Keane Regan  
Charles Santos  
Andrew Schluter  
Adam Sneider  
Madison Sullivan  
Gavin Thibodeau  
Alexandra Valach  
John Washburn  
Christian Weitz  
Business Administration  

Skylar O’Reilly  
Economics  

Jasmyn Senesombath  
Business Administration, Marketing

**Team: Nine of Your Business**
Adviser: Francesca Molinari

Joseph Conry  
Katherine Crowell  
Ryan Donaway  
Tessa Gallagi  
Jacob Gould  
Alexandra Horvath  
Brendan Jacobs  
William Lanchester  
Adam LeLacheur  
Amelia Marchand  
Matthew Morelli  
Jonathan Olson  
Christopher Ouwerkerk  
Casey Peterson  
Benjamin Pierce  
Sabrina Santagati  
Raymond Staples  
Steven Tedeschi  
Jack Winship  
Business Administration

**Team: FireCats**
Adviser: Devin McMahon

Erin Ablondi  
Cassandra Beigel  
Nicholas Dolan  
Jessica Dukeshire  
Jada Ferreira  
Christopher Gillen  
Timothy Healy  
Samuel Hetu  
Morgan Houk  
Trevor Hunt  
Ann-Marie Kolberg  
Matthew Landry  
Andrew Leduc  
Owen Lynch  
Kyle Manlogon  
Brendan Nichols  
Liam O’Connell  
Erica Peplau  
Coleman Russell  
Adam Turcotte  
Business Administration  

Michael Fiacco  
Entrepreneurial Studies  

Alexa Mayo  
French, International Business and Economics  

Skylar O’Reilly  
Accounting  

**Team: The Goat**
Adviser: Kyle Hurley

Thomas Adams  
Quinn Antonacci  
Emma Bogardus  
Travis Campbell  
Adam Cournoyer  
Allison Crowley  
Noah Denison  
Molly Finn  
Pinar Gokalp  
Trace Hennas  
Amelia Jordan  
Cameron Lamprey  
Victor Langone  
Kaitlin Murphy  
Kelly Nguyen  
Nicholas Olney  
Business Administration
Devon Bruzzese  
Management, Marketing  
Ryan Damelio  
Raymond Zabkar  
Accounting  

**Team: Fuego**  
Adviser: Alexis Gray  
Lily Cosman  
David Fanaras  
Richard Grandstaff  
Carolyn Kinsella  
Samuel Mabile  
Camden Steady  
Ethan Vient  
Andrew Volmar  
Economics  
Sadie Mazzola  
Cody Schoolcraft  
Analytical Economics  
Sawyer Nolan  
James Rinklin  
Business Administration  
Emma Rockstrom  
Accounting  
Lani Stevens  
Economics, Sustainability  

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**Team: Str8 FIRE**  
Adviser: Timothy Putnam  
Ryan Aittaniemi  
Irene Bregianos  
Joseph Bresnahan  
Kyleigh Cooley  
Matthew Creamer  
Michael Deschenes  
Zackary Gilman  
Seth Gunter  
Lucas Jones  
Alec Juknievich  
Hannah Kaplan  
Kevin Larney  
Kelsey Marcou  
Julia Mcgonagle  
Catia Petrella  
James Toner  
Business Administration  
Nathaniel Baroni  
Megan Champagne  
Jacob Schwarzhaupt  
Marketing  
Kimberly Coudrey  
Economics, Finance  
Connor Stead  
Finance

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**Team: Big Pauler Brands**  
Adviser: Alexys Gilcreast  
Kathleen Buck  
Finance, Marketing  
Jeffrey Cole  
Rocco DiPietro  
Jarod Emirzian  
Christian Greene  
Eric Kostandin  
Victor Li  
Alexandra McClintic  
Benjamin Potter  
Molly Richardson  
Michael Shea  
Madison Smith  
Taylor Svenconis  
Isabelle Todd  
Shay Wenglin  
Dagny Wilkins  
Victoria Wyman  
Business Administration  
Cassaudra Kalba  
Cara Sullivan  
Marketing  
Emma Nofsker  
Information Systems and Business Analytics  
Alicia Pedersen  
Accounting, Finance  
Andrew Siemering  
Business Administration, Economics, Finance  
Daniella Sirois  
Finance

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**Team: Another Brick in the Paul**  
Adviser: Dakota Hippern  
Ryan Allen  
Jacob Callahan  
Hannah Cehovsky  
Ben Daniels  
William Daraio  
Kayleigh Donovan  
Tyler Germain  
John Heaps  
Sophia Hughes  
Patrick Hughes  
Matthew Leroux  
Bryce Libbey  
Thomas Menchini  
Grant Milas  

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Nicholas Mogielnicki  
Hugh O'Donnell  
Sean Orr  
Madelyn Rines  
Anupreet Saini  
Garrett Scott  
Jianing Tang  
Business Administration

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Team: 8teen  
Adviser: Matthew Howard  
Ian Alpine  
Charles Biedermann  
Terrance Brand  
Jack Cowette  
Jessie DeLouis  
Trevor Guilmette  
Dylan Jackson  
Alexander Luzaitis  
Andrew McCourt  
Emma O'Neill  
Brandon Robinson  
Heidi Smith  
Shannon Thomas  
Sean Welch  
Samantha Woodman  
Business Administration  
Darren Gibadlo  
Business Administration, Finance  
Madisen Gonya  
Colin Plumb  
Erik Sherkanowski  
Finance  
Starr Murray  
Accounting, Business Administration  
Anthony Sturzo  
Undeclared
Team: FIREbal16
Adviser: Brittney Wallace
Cecilia Beaudoin
Liam Conrad
Samuel Delay
Reed Gibson
Sara Greenwald
Sophie Hammond
Casey Johnston
Benjamin Kfoury
Olivia Lachapelle
Juliana Mancinelli
Gregory Mattucci
Matthew McKenzie
Zachary Merian
Edward O'Brien
Samantha Prial
Brandon Radford
Lila Salinaridi
Luke Tighe
Business Administration

Team: APPALLO 23
Adviser: Connor Cote
Danielle Beegan
Melissa Dingle
Ryan Dutille
Patrick Flynn
Maxwell Gildon
Kyle Hamper
Sean Hayden
Paige Hillis
Charles Kelleher
Benton Maass
Gabrielle Marrocco
Sophia Mazzarelli
Corey McConville
Jessica Nadeau
Cameron Rush
Zachary Salem
Daniel Vanecek
Business Administration

Team: Mighty Fine #29
Adviser: Michael Wulftange
Cassidy Bodie
Matthew Carney
Anna Chace
Hillary Costa
Chad DeMont
Joshua Dichiaro
Ryan Farinas
Mitchell Gemma
Louise Healey
Yanni Kakouris
Bradley Keaveney
Hannah Lackey
John Littlefield
Michael Marron
Christopher Matzelle
Alexander Nazarenko
Ashley Osborne
Kyle Spellicy
Business Administration

Team: CanJan
Adviser: Janet Khoury
Joseph Blasie
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Benjamin Palmer
Seraphin Prat
Daniel Romagna
Allison Scimone
Jack Sickles
Jonah Stillman
Justin Szabo
Riley Walsh
Business Administration
Veronika Golod
Management

Grand Challenge: Healthcare

Team: Twenty Too-Much Heat
Adviser: Nicholas Snedegar
Benjamin Albanese
Jenna Bortolussi
Mitchelly Cabrera
Peter Donohoe
Shelby Ganem
Brendan Glock
Patrick Heffernan
Connor Jesson
Alicia Lester
Riley Magrath
Sydney Marshall
Nicholas Meekar
Christopher Muollo
Kyle Norris
Zack Peterson
Olivia Rios
Clark Stimon
Erika Tsetsilas
Samuel Veerman
Brian Walkey
Dean Zirrolli
Business Administration
**Team: Twenty Gr8**
Adviser: Alana Maher
Ryan Alexander
Dean Coletti
Alex Curtin
Derek Deiter
David Erickson
Rachel Fiato
Amanda Kwok
Michael Maida
James McMillan
David Michel
Margaret Moss
Benjamin Ouellette
Evan Pentasuglia
Jessica Renna
Johanna Rewucki
Jocelyn Sheltra
Patrick Sullivan
Isabella Tremblay
Business Administration
William McHugh
Entrepreneurial Studies, Marketing

**Team: Shooters Shoot**
Adviser: Alexander Bice
Jessica Badger
Spencer Covene
Kelly Crawford
Linus Fallberg
Raymond Janeczek
Eric Kalton
Martha Peppes
Michael Robinson
Olivia Ross
Thomas Ross
Heidi Roussin
Danielle Sinko
Jonathan Wolf
Morgan Young
Business Administration
Patrick McCarthy
Finance, Information Systems and Business Analytics
Celia Prescott
Marketing
Frederick Schaake
Accounting, Information Systems and Business Analytics
James Wichert
Entrepreneurial Studies, Marketing

**Team: Paulin' on a Budget**
Adviser: Timothy Closson
Kelsea Batchelder
William Beaulieu
Elizabeth Blanding
Christopher Burke
Mathew Fiore
Paige Kaulh
Caroline Murphy
Ioannis Papanastasiou
Nikolos Raftopoulos
Ethan Tanner
Charles Thrasher
Joshua Welling
Nathan Whitcomb
Tanner Williams
Grant Workman
Business Administration
Bailey McDaniel
Accounting, Finance
Steven Schnobrich
Business Administration, Finance
Jakeb Vierzen
Finance, Management

**Team: ThirdDegreeBurns**
Adviser: Michael Ellison
Aimee Bayer
Ethan Carig
Sydney Carlisle
Kayce DeAngelis
Charles Driscoll
Julianne Erickson
Jenna Frasier
Madelin Hawtin
Scott Hinds
Alyson Jacobs
Samyak Jain
Ely Marciano
Kellan McEachen
Justin Mooney
Rachael Muise
Christopher Sheehan
Maxwell Shelley
Janessa Terry
Matthew Webber
Business Administration
Erin Gralton
Accounting, Finance
Edward Lange
Economics, Sustainability
Kyle Norman
Accounting

**Team: Chicken ConTENDers**
Adviser: Jocelyn Petry
Bradley Cammett
Jacob Claire
Kiera Connell
Samantha Davidson
Robert Dillon
Mark Fagan
Matthew Gravalles
Kristen Keough
John Levasseur
Jack Martin
Tyler Martin
Cameron Norling
Olivia Parks
Madison Rahilly
Kyle Shaw
Rachel Strout
Michael Vicente
Ryan Vigeant
Business Administration
Derek Gardner
Business Administration, Undeclared
Victoria Hartmann
Accounting

**Grand Challenge: Transportation**
**Team: W1ldf1re**
Adviser: Brian Dezurick
Alexandra Adamakos
Natalie Bennett
Brenna Burkett
Kaya DeRobbio
Megan Dille
Allison Fischer
Edward Lange
Economics, Sustainability
Kyle Norman
Accounting
Team: Ign1t3 the F1r3
Adviser: Andrea LaBonte
Emily Adams
Bethany Aucoin
Nathan Borovick
Hannah Carroll
Meredith Darling
Olivia Fusegni
Alyssa Jameson
Devan Reeves
Caroline Wheatley
Business Administration
Sandra Bernal
Kaitlyn Boudreau
Mary Davis
Bayley Hookway
Julia Marzullo
Mallory Perron
Kendra Stefanski
Mengxi Tan
Nhu Minh Trang
Lauren Wilson
Hospitality Management

Team: The High Fives
Adviser: Brandilynn Barker
William Altieri
Philip Amseoeder
John Brugger
Nicholas Dello Buono
Masami Dustin
Michael Finalborgo
Sean Hanscom
Hunter Karch
James Le Vie
Cabot Macuch
Jackson Maffe
Jamie McGee
Steven McKeen
Jake Rappaport
Andrew Rigney
Matthew Seelig
Cameron Smith
Anthony Tamposi
Troy Utton
Business Administration
Lars Hamilton
Business Administration, Spanish
Yirou Xiao
Business Administration, Geography

Team: Edge of 17
Adviser: Matthew Vossler
Emmanuelle Beaurpere
Malcolm Braren
Kyle Capprini
Andrew Connolly
Justin Dalton
Noah Forman
Nicole Gianatassio
Rachel Hall
Kaitlyn Keane
Marisa Labadini
Allison MacPhee
Johanna McCarthy
Barrett Norton
Alicia Palermo
Samantha Pasoschi
Christian Redding
Isabella Ronson
Nicholas Salcito
Emma Sawyer
Iris Scherma
Adam Skiba
Business Administration

Team: FIRE HA2ARDS
Adviser: Hayley Siemering
Ryan Bratton
Mason Burke
Michael Cocca
Peter Coyne
Drew Delano
Matthew Dowling
Aramazd Havan
Francesca Izzo
Amy Marko
Catherine Molla
Liam O’Donnell
Hannah Parnell
Victor Romeo
Jessica Silvagni
Taylor Silveira
Rachel Werner
Shane Whittredge
Business Administration
Brendan Donaghey
Daniel Malizia
Finance
Sage Gallagher
Business
Acadia Laraway
Accounting

Team: Paul Til We Fall
Adviser: Sean Hickey
Niko Cardini
Caroline Collard
Cameron Curcio
Haley Demres
Nolan Doherty
Benjamin Farrar
Sam Grossano
Eleanor Hartmann
Sophia Irby
Michael King
Christopher Loparco
Nicole Marzulli
Andrew Mitchell
Nicholas Monopoli
Grant Morhun
Owen O’Brien
Jordan Sardo
Matthew Schommer
Zachary Serfass
Liam Sullivan
Laura Visco
Business Administration

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Mengxi Tan
Nhu Minh Trang
Lauren Wilson
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Business Administration, Spanish
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Business Administration, Geography

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Aramazd Havan
Francesca Izzo
Amy Marko
Catherine Molla
Liam O’Donnell
Hannah Parnell
Victor Romeo
Jessica Silvagni
Taylor Silveira
Rachel Werner
Shane Whittredge
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Brendan Donaghey
Daniel Malizia
Finance
Sage Gallagher
Business
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Accounting

Team: Paul Til We Fall
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Caroline Collard
Cameron Curcio
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Nolan Doherty
Benjamin Farrar
Sam Grossano
Eleanor Hartmann
Sophia Irby
Michael King
Christopher Loparco
Nicole Marzulli
Andrew Mitchell
Nicholas Monopoli
Grant Morhun
Owen O’Brien
Jordan Sardo
Matthew Schommer
Zachary Serfass
Liam Sullivan
Laura Visco
Business Administration
Ann Manchester Kelley
Nursing Inquiry Day

Wednesday, May 2
8 a.m.–2 p.m.
Memorial Union Building, Strafford Room

This event features scholarly presentations by undergraduate Honors students and Graduate Program students in Nursing.

Olivia Black
Nursing
From Care Home to Community: The Impact of Connection on Dutch Elder Care and Well-Being
Adviser: Michele Loos

Amanda Graves
Nursing
Frühe Hilfen Familienhebammen: A Descriptive Study of Care and Prevention
Adviser: Gene Harkless

Erin Judge
Nursing
The Bonding and Infant Feeding Experiences of Mothers Who Deliver at a Baby-Friendly Initiative Certified Community Hospital
Adviser: Alyssa O’Brien

Elizabeth Lapsley
Kiley McKenna
Nursing
Childhood Nutrition in the Rural Area of Agbelouve, Togo
Adviser: Gene Harkless

Nicole Moody
Nursing
Effects of Music Therapy on Distress in Patients Receiving Outpatient Chemotherapy
Adviser: Raelene Shippee-Rice

Kathleen O’Loughlin
Nursing
The Effect of ED Nurses’ Perception of Addiction on Pain Management of Drug Users
Adviser: Joanne Samuels

Anne Steckowych
Nursing
Narcan Administration by New Hampshire Law Enforcement Agencies
Adviser: Kerry Nolte

Marin Strong
Nursing
Factors Influencing Care-Seeking Behaviors for Childhood Illness by Mothers in Nepal
Adviser: Gene Harkless

Chemistry Department Poster Exhibition

Thursday, May 3
3–4:30 p.m.
Parsons Hall, Southwest Lobby

The Chemistry Department Poster Exhibition is the result of students’ year-long senior thesis research in such areas as organic, inorganic, physical or analytical chemistry, and under the direction of their research adviser.

Alyssa Bangrazi
Chemistry
Deactivation of Carbapenem-Hydrolyzing Class D β-Lactamases (CHDLs) through the Modification of C6-Substituted Penicillin Derivatives
Adviser: Marc Boudreau

Brady Barron
Chemistry
Design, Synthesis, and Characterization of a Novel Octadentate Aminophosphonate Ligand for 89Zr-ImmuNo-PET Imaging
Adviser: Roy Planalp

Jane Berger
Chemistry
Separating and Quantifying Hydroxyl Functionality in Polymer Nanoparticles between Surface, Serum, and Core
Adviser: John Tsavalas

Erin Braker
Chemistry
Synthesis of a Redox-Active Hydrogel for the Protection of Black Phosphorous
Adviser: Christine Caputo

Catherine Buckley
Chemistry
DNA Polymerase
Adviser: Margaret Greenslade

Jacob Buford
Biomedical Science, Chemistry
The Effects of Mycotoxin Binder on Growth Rate in Piglets with Reduction of Toll-Like Receptor-4 and Increase of Tight Junction Protein Gene Expression in Gut Mucosa
Adviser: Margaret Greenslade

Aaron Chung
Chemistry
Investigation of Zr+4 Complexation with DFO-8 for Positron Emission Tomography
Adviser: Roy Planalp

Matthew Currier
Chemistry
Synthesis of Indole-Functionalized Methacrylate Polymers for Investigating Nanoparticle Formation Dynamics
Adviser: Samuel Pazicni

Laura Jackson
Chemistry
Advancements in Forensic DNA Analysis
Adviser: Margaret Greenslade

Rachel Kiefaber
Chemistry
Application of the Nitrogen Footprint
Adviser: Margaret Greenslade

Sarah Lachapelle
Chemistry
Probing the Macromolecular Environment of Porphyrin-Cored Nanoparticles Using Exogenous Ligands
Adviser: Samuel Pazicni

Courtney Leo
Chemistry
Controlled Synthesis of Single-Chain Nanoparticles under Various Atom Transfer Radical Coupling Conditions
Adviser: Erik Berda
Zekun Li  
Chemistry  
Effect of Hydrophobic Group on the Untangling Rate of PolyNIPAM  
Adviser: William Seitz

Yung-Chun Lin  
Chemistry  
Tandem Chain Extension-Mannich Reaction: An Approach to β-proline Derivatives  
Adviser: Charles Zercher

Joseph Mancinelli  
Chemistry  
Synthesis of Functionalized BODIPY Dyes for Use as Fluorescent Probes  
Adviser: Erik Berda

Kassie Picard  
Chemistry  
Exploration of the Synthesis of 1-Methyl-4-Silatranone and the Contest for Nitrogen’s Lone Pair  
Adviser: Arthur Greenberg

Matthew Reuter  
Chemistry  
Synthesis and Functionalization of Novel Multidentate Ligands for Catalysis with Carbon Dioxide and Ethylene  
Adviser: Roy Planalp

Evangelos Rossis  
Chemistry  
Synthesis of Organic Bifunctional Spacer for the Conjugation of the Octadentate Chelator DFO with Antibodies for 89Zr-Immuno-PET  
Adviser: Roy Planalp

Cassandra Russell  
Chemistry  
Flu Vaccine  
Adviser: Margaret Greenslade

Kelsey Ryan  
Chemistry  
Targeted Cancer Therapies  
Advisers: Margaret Greenslade, Richard Johnson

Ian Smith  
Chemistry  
Development of New Fluorescent Materials: Putting Carbon Dots to Work  
Adviser: Christine Caputo

Timothy Tetraault  
Chemistry  
Synthesis of Analogues of Nosokophic Acid  
Adviser: Marc Boudreau

Drew Verrier  
Chemistry  
Synthesis and Characterization of Porphyrin-Cored Polymer Nanoparticles That Incorporate Hydrogen Bonding to Model Hemes  
Adviser: Samuel Pazicni

Thomas Williams  
Chemistry  
Exploring Routes to the Synthesis of Dibenzopentalenes  
Adviser: Richard Johnson

Claudia Willis  
Chemistry  
Synthesis of Single-Chain Nanoparticles via Atom-Transfer Radical Coupling  
Adviser: Erik Berda

**Peter T. Paul College of Business and Economics**  
**Paul J. Holloway Prize**  
**Innovation to Market Prize Competition**  
**Championship Round**

**Wednesday, May 9**  
1–6 p.m.  
**Peter T. Paul College Building**

This competition takes students out of the classroom and into the real world. Students are required to research and prepare strategies for commercializing new products and services, which they present to a panel of industry judges. Prizes are awarded for the most feasible and fundable approaches for starting, acquiring, or expanding a business venture.
Acknowledgments

The UNH Undergraduate Research Conference has grown to become a signature event at the University and one of the largest and most diverse conferences of its kind. Bringing the URC to fruition each year is the result of a collaborative network of many community members across campus. Here, we acknowledge these individuals and campus units and thank them for helping to make the 2018 URC happen.

Special thanks to:
- Office of the Provost & VP for Academic Affairs
- Office of the Senior Vice Provost for Academic Affairs
- All Faculty Mentors and Other Research Advisers
- Hamel Center for Undergraduate Research
- Memorial Union Building Administrative Staff
- Town of Durham, Public Works
- UNH Advancement
- UNH Admissions
- UNH Audiovisual Services
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- UNH Chapter of Phi Beta Kappa
- Office of the Senior Vice Provost for Academic Affairs

Thanks to the 2018 URC Planning Committee (as well as the many individuals who served on subcommittees):
- Carole Berry, Co-Chair, ISE Symposium; Administrative Director, Office of the Dean, CEPS
- Emily Broderick, Associate Director of Donor Relations, Advancement
- Szu-Feng Chen, Chair, Naked Arts; Associate Professor, Theater and Dance
- Summer Cook, Associate Professor, Kinesiology
- Sarah Daigle, Event Coordinator, Paul College URC
- Molly Doyle, Co-Chair, All Colleges Undergraduate Research Symposium; Administrative Director, Hamel Center for Undergraduate Research
- Nora Draper, Assistant Professor, Communication
- Andrew Earle, Chair, Paul College Holloway Prize Competition; Assistant Professor, Strategic Management and Entrepreneurship
- Kate Gaudet, Associate Director, University Honors Program
- Hannah Hamalainen, Geospatial and Earth Sciences Librarian; Assistant Professor
- Tara Hicks Johnson, Co-Chair, ISE Symposium; Outreach Specialist, CCOM
- Scott Jones, Director of Marketing Operations, CPA
- Senem Kaptan, Co-Chair, All Colleges Undergraduate Research Symposium; URC Coordinator, Hamel Center for Undergraduate Research
- John Larsen, Associate Director, UNH Admissions
- Eileen Laskoski, Marketing Events Manager, Paul College
- Myles Lynch, Graduate Assistant/Coordinator, Graduate Research Conference
- Laura Martin, Associate Director of Donor Stewardship, Advancement
- Cari Moorhead, Chair, Graduate Research Conference; Interim Dean, Graduate School
- Beth Potier, Manager, Research and Outreach Communications, CPA
- Dan Reagan, Chair, UNH Manchester URC; Associate Dean, Academic Affairs, UNH Manchester
- Chris Reardon, Professor, Political Science
- Sean Stewart, Program Coordinator, Paul College First-Year Innovation and Research Experience (FIRE) URC
- Paul Tsang, Faculty Director, Hamel Center for Undergraduate Research; Professor, Molecular, Cellular and Biomedical Sciences
- Pam Wildey, Co-Chair, COLSA URC; Administrative Assistant, MCBS, COLSA
- Wilfred Wolheim, Co-Chair, COLSA URC; Associate Professor, Natural Resources and the Environment
- Mary Young, Senior Project Manager, Office of the Dean, UNH Manchester

2018 URC Event Chairs/Co-Chairs:
- Mike Annicchiarico, Student Composers’ Concert
- Carole Berry and Tara Hicks Johnson, Interdisciplinary Science & Engineering (ISE) Symposium
- Anne Broussard, CHHS Grimes Award Competition
- Szu-Feng Chen, The Naked Arts—Creativity Exposed!
- Molly Doyle and Senem Kaptan, All Colleges Undergraduate Research Symposium
- Andrew Earle, Paul College Holloway Prize Competition; Nelson Poster Competition
- Steven Gorman, Thompson School of Applied Science Student Showcase
- Jin Guo, Paul College URC
- Ben Harris and Maureen Gillespie, Psychology Department George M. Haslerud URC
- Julee Holcombe, Senior B.A. & B.F.A. Art Exhibition & Reception and M.F.A Thesis Exhibition Opening Reception
- Delia Konzett, Honors English URC
- Elizabeth Mellyn, History Department URC
- Cari Moorhead and Myles Lynch, Graduate Research Conference
- Dan Reagan and Mary Young, UNH Manchester URC
- Cindi Rohwer, Chemistry Department Poster Exhibition
- Joanne Samuels, Ann Manchester Kelley Nursing Inquiry Day
- Nick Smith, Philosophy Department URC
- Sean Stewart, Paul College FIRE URC
- Averie Thorne, Languages, Literatures, and Cultures Department URC
- Wilfred Wolheim and Pamela Wildey, COLSA URC

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- Dan Reagan, Chair, UNH Manchester URC; Associate Dean, Academic Affairs, UNH Manchester
- Chris Reardon, Professor, Political Science
- Sean Stewart, Program Coordinator, Paul College First-Year Innovation and Research Experience (FIRE) URC
- Paul Tsang, Faculty Director, Hamel Center for Undergraduate Research; Professor, Molecular, Cellular and Biomedical Sciences
- Pam Wildey, Co-Chair, COLSA URC; Administrative Assistant, MCBS, COLSA
- Wilfred Wolheim, Co-Chair, COLSA URC; Associate Professor, Natural Resources and the Environment
- Mary Young, Senior Project Manager, Office of the Dean, UNH Manchester

2018 URC Event Chairs/Co-Chairs:
- Mike Annicchiarico, Student Composers’ Concert
- Carole Berry and Tara Hicks Johnson, Interdisciplinary Science & Engineering (ISE) Symposium
- Anne Broussard, CHHS Grimes Award Competition
- Szu-Feng Chen, The Naked Arts—Creativity Exposed!
- Molly Doyle and Senem Kaptan, All Colleges Undergraduate Research Symposium
- Andrew Earle, Paul College Holloway Prize Competition; Nelson Poster Competition
- Steven Gorman, Thompson School of Applied Science Student Showcase
- Jin Guo, Paul College URC
- Ben Harris and Maureen Gillespie, Psychology Department George M. Haslerud URC
- Julee Holcombe, Senior B.A. & B.F.A. Art Exhibition & Reception and M.F.A Thesis Exhibition Opening Reception
- Delia Konzett, Honors English URC
- Elizabeth Mellyn, History Department URC
- Cari Moorhead and Myles Lynch, Graduate Research Conference
- Dan Reagan and Mary Young, UNH Manchester URC
- Cindi Rohwer, Chemistry Department Poster Exhibition
- Joanne Samuels, Ann Manchester Kelley Nursing Inquiry Day
- Nick Smith, Philosophy Department URC
- Sean Stewart, Paul College FIRE URC
- Averie Thorne, Languages, Literatures, and Cultures Department URC
- Wilfred Wolheim and Pamela Wildey, COLSA URC
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