

Undergraduate Research Conference

2026



University of
New Hampshire

Welcome to the UNH Undergraduate Research Conference



ELIZABETH S. CHILTON



JEANNETTE E. RILEY

WELCOME TO THE 27TH ANNUAL UNDERGRADUATE RESEARCH CONFERENCE (URC), one of UNH's most exciting traditions and an impressive showcase of our students' creativity, hard work, and accomplishments.

Launched as a university-wide effort in the spring of 2000, the URC has grown to become one of the largest and most diverse gatherings of undergraduate researchers in the nation. This year, more than 1,700 students will present their research, scholarship, and creative works across our Durham and Manchester campuses, representing academic achievements in every college at UNH. This work reflects what we aim to do every day at UNH: create knowledge and apply it in ways that have an impact in New Hampshire and beyond.

In addition to highlighting our students' academic excellence, the URC reflects the dedication and support of hundreds of faculty mentors whose research and teaching expertise are the hallmarks of a great UNH education. As students work with faculty to develop projects – supported by staff, alumni, and research partners – they also build important life skills in problem-solving, project management, and teamwork. All are qualities that will serve them well in their chosen careers and throughout their lives.

Whether you visit a poster session, an oral presentation, or a hands-on demonstration, we are confident that you will be impressed by the range of creative insights and practical solutions our students have developed to improve the quality of life here in the Granite State and around the world. Thank you for supporting our undergraduates and New Hampshire's flagship public research university.

Best regards,

A handwritten signature in black ink that reads "Elizabeth S. Chilton".

ELIZABETH S. CHILTON
PRESIDENT

A handwritten signature in black ink that reads "Jeannette E. Riley".

JEANNETTE E. RILEY
PROVOST AND EXECUTIVE VICE PRESIDENT FOR ACADEMIC AFFAIRS

A Welcome from the Hamel Center for Undergraduate Research

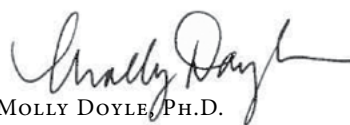
WELCOME TO THE 27TH ANNUAL CELEBRATION of academic excellence at the University of New Hampshire! The URC embodies UNH's mission to offer students a discovery-based education by encouraging inquiry, exploration, and deeper immersion in their fields of study. This year, more than 1,700 students – mentored by over 300 faculty members and other research advisers – will present their research and scholarship at 20+ URC events on the Durham and Manchester campuses, including 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 and showcasing all stages of the research process – including the final stage of communicating research findings to the wider public. For many UNH students, the URC is their first opportunity to present their work to a broad audience. The URC is thus vital in giving students practice in public speaking, communicating complex ideas to a general audience, 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.

In addition to recognizing our students' achievements, we also 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 us in celebrating our students' remarkable scholarship!



PAUL ROBERTSON, PH.D.
Director, Hamel Center for Undergraduate Research
Senior Lecturer, Classics, Humanities, and Italian Studies



MOLLY DOYLE, PH.D.
Administrative Director,
Hamel Center for Undergraduate Research



AMANDA LEGER, M.A.
URC Coordinator,
Hamel Center for Undergraduate Research



RACHEL NOTT
Administrative Coordinator,
Hamel Center for Undergraduate Research

***Inquiry* journal of undergraduate research**

In addition to attending one or more URC events, you can read more about our student researchers in *Inquiry*, UNH's online journal of undergraduate research. Published biannually by the Hamel Center for Undergraduate Research, and celebrating its 22nd anniversary of continuous publication this year, *Inquiry* features research articles, briefs, and commentaries authored by undergraduates. You may also read more in the Hamel Center's [Undergraduate Research Blog](#).

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URC 2026 Calendar

All events are free and open to the public, unless noted otherwise.
(Building numbers are bold and in parentheses.)

THURSDAY, APRIL 9

8–9:30 p.m.

John Rogers Memorial Student Composers Concert

Paul Creative Arts Center,
Bratton Recital Hall (6)

FRIDAY, APRIL 10

12:50–4 p.m. and 4:50–8 p.m.

Paul College of Business and Economics Paul J. Holloway Prize Innovation to Market Competition, Bud Albin Challenge Round

Paul College (5)

FRIDAY, APRIL 17

5–8 p.m.

Senior B.A. & B.F.A. Exhibition and Preview Reception

The exhibition will remain open until May 17.

Paul Creative Arts Center, Gallery of Art (6)

MONDAY, APRIL 20

5–6:30 p.m.

Undergraduate Research Showcase

This event is by invitation only.

Huddleston Hall, Ballroom

TUESDAY, APRIL 21

9 a.m.–1 p.m.

UNH Manchester URC, Oral Presentations

88 Commercial Street,
Screening Room 456, Manchester

12:40–2 p.m.

History Department URC

Horton Social Science Center,
Rooms 201, 204, and 207 (2)

WEDNESDAY, APRIL 22

8 a.m.–3 p.m.

Interdisciplinary Science and Engineering (ISE) Symposium

Whittemore Center Arena (8)

12–2:45 p.m.

The Naked Arts – Creativity Exposed! (Act I)

Paul Creative Arts Center, Gallery of Art (6)

4–6 p.m.

UNH Manchester URC, Poster Presentations

88 Commercial Street, MPR Room 201
and Student Commons, Manchester

THURSDAY, APRIL 23

9 a.m.–12 p.m.

UNH Manchester URC, Cinema Arts Day

88 Commercial Street, Screening Room 456,
Manchester

12:40–2:45 p.m.

The Naked Arts – Creativity Exposed! (Act II)

Paul Creative Arts Center, Gallery of Art (6)

FRIDAY, APRIL 24

9 a.m.–1 p.m.

UNH Manchester URC, Engineering Technology Senior Capstone Robotics Presentations

88 Commercial Street, MPR Room 201,
Manchester

9 a.m.–1:25 p.m.

All Colleges Undergraduate Research Symposium

Memorial Union Building, Granite State Room and various rooms (4)

9 a.m.–1:45 p.m.

Paul College URC

Paul College (5)

12:15–1:25 p.m.

The Naked Arts – Creativity Exposed! (Act III)

Memorial Union Building, Theatre I (4)

1–3 p.m.

Psychology Department George M. Haslerud URC

McConnell Hall, Room 220 (3)

1–4 p.m.

College of Health and Human Services (CHHS) Grimes Award Competition

Pettee Hall, Room G10 (7)

2–3:30 p.m.

Honors English URC

Hamilton Smith Hall, Room 205 (1)

3–7 p.m.

Philosophy Department URC

Hamilton Smith Hall, Room 240 (1)

SATURDAY, APRIL 25

8 a.m.–4:30 p.m.

UNH Manchester URC, Engineering Technology Robotics Competition

88 Commercial Street, MPR Room 201,
Manchester

8:15 a.m.–12 p.m.

College of Life Sciences and Agriculture (COLSA) URC

Memorial Union Building, Granite State Room and Theatre II (4)

9 a.m.–4 p.m.

Paul College First-Year Innovation and Research Experience (FIRE) URC

Paul College (5)

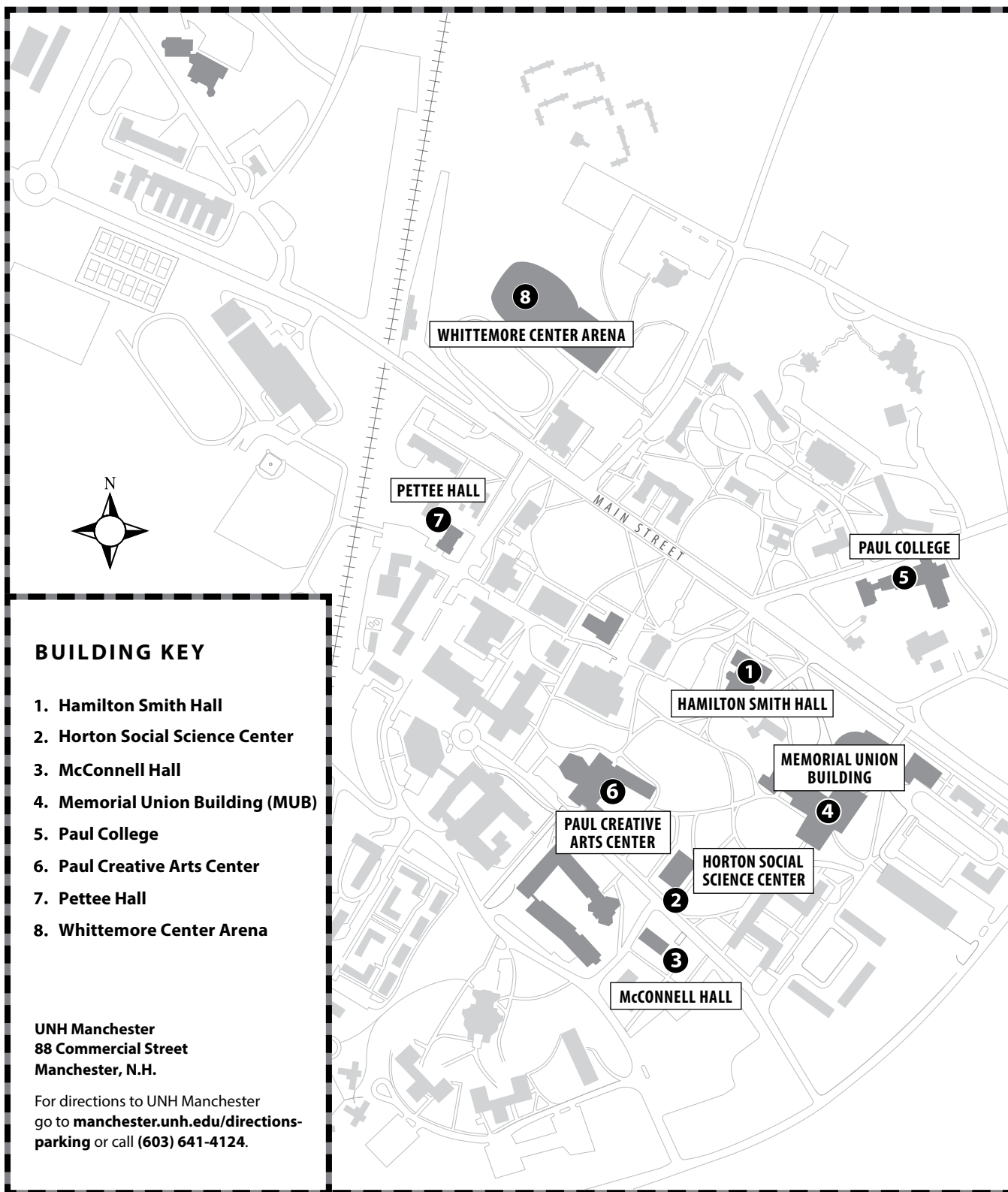
TUESDAY, MAY 6

1–6:15 p.m.

Paul College of Business and Economics Paul J. Holloway Prize Innovation to Market Competition, Championship Round

Paul College (5)

URC 2026 Campus Map



John Rogers Memorial Student Composers Concert

Thursday, April 9
8–9:30 p.m.
**Paul Creative Arts Center,
Bratton Recital Hall**

The John Rogers Memorial 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.

Adviser: Michael Shun

Brandon Bedard
Music Education
Day Gone By

Mikaela Belanger
Music, Psychology
*Mellon Collie Has Paid Off Well:
Brass Choir Original Composition*

Jake Blanchard
Virginia Borrelli
Evan Caron
Jacqueline Fuller
Alison Lamontagne
Tim McGee
Emili Sheldon

Music Education
Thomas Martineau
Biochemistry, Molecular and
Cellular Biology
*Fallen: A Suite for Brass Quintet
and Percussion*

Derek Dong
Computer Science, Music
Alison Henderson
Neuroscience and Behavior

Chloe Jaarsma
Mathematics
Galen Walton
Earth Sciences, Music
To the Observer and the Observed

Derek Dong
Computer Science, Music
Ryan O’Grady
Music
Trumpet Concerto in Db Major
Labyrinth of Lip Slurs
Arban’s Revenge

Owen Fay
Applied Mathematics
Trey Finkelstein
Joseph Kayan
Hikari McDowell
Brenden Norwood
Music Education
Galen Walton
Earth Sciences, Music
Colin Ward
Music
SEND-OFF, for Jazz Combo

Sam Fontaine
Caleigh Kelly
Nicholas Lewis
Music Education
Jamie Halvorson
Music
Wendy Parcel
French, Music
Fleurira: Clarinet Quartet

Jacqueline Fuller
Joseph Kayan
Hikari McDowell
Lindsey McLaren
Grayson Needham
Music Education
A Matter of Perspective

Jacqueline Fuller
Hikari McDowell
Grayson Needham
Brenden Norwood
Music Education
Anthropocene Suite

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

Bud Albin Challenge Round

Friday, April 10
12:50–4 p.m. and 4:50–8 p.m.
Paul College

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.

Senior B.A. & B.F.A. Exhibition and Preview Reception

Friday, April 17
5–8 p.m.
**Paul Creative Arts Center,
Gallery of Art**

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

Adviser: Benjamin Cariens

Josephine Bidoli
Art: Studio Art
Exquisite Corpse

Bree Boyington
Fine Arts, Sociology
*These First Steps: What Makes the
Beginning of a Graphic Novel*

Abigail Brice
Fine Arts
Branching Out and Letting Go

Savannah Couture

Art: Studio Art
Fractals of Expansion

Grace Coverdale

Art: Studio Art
Uncertain: The Space between Confidence and Doubt

Sonya Endrizzi

Art: Studio Art
Balance in Chaos

Julia Hartin

Fine Arts
Frame by Frame: Gelatinous Trails

Kanan Kalke

Fine Arts
Carnal Gesture: The "Otherness" and "Creatureness" of the Female Form

Jordan Klein

Art: Studio Art, Fine Arts
Yad b'Yad: Material Memory of Common Forms

Madeline Marshall

Fine Arts
Obstructions: Fragments of Being

Luke Murray

Fine Arts
Creation in Depth

Marisa Norcia

Art: Studio Art, Fine Arts
Fragmented: A Conversation between the Past and Present Self

Amy Sinibaldi

Fine Arts
When Pigment Becomes Perception

Undergraduate Research Showcase

**Monday, April 20
5–6:30 p.m.
Huddleston Hall, Ballroom**

The Undergraduate Research Showcase kicks off URC week at UNH, and highlights the best of disciplinary and interdisciplinary work across all six of UNH's colleges in Durham and Manchester. Students are specially selected by their respective college deans to present posters from a wide range of disciplines, plus oral presentations on an annual theme.

This event is by invitation only.

Oral Presentations

Meryam Belhassad

Nursing, Women's and Gender Studies
Knowledge, Attitudes, and Beliefs Surrounding Maternal Cannabis Use and Lactation
Adviser: Daisy Goodman, Lisa Lamadriz, Alyssa O'Brien

Maggie Buglino

English, History
The Joy of All Joys: Roland D. Sawyer's Christian Socialism
Adviser: Lila Knolle

Elisabeth Drakatos

Civil Engineering
PFAS in the Great Bay
Adviser: Paula Mouser

Madelyne Hancock

Economics
The Regional Greenhouse Gas Initiative: A Cap-and-Trade System
Adviser: Robert Mohr

Caroline Heafield

Biotechnology
Expanding the Search for Novel Antibiotics: Adapting Tiny Earth Protocols for Fungi
Adviser: Suzanne Cooke

Dhiraj Naidu

Biochemistry, Molecular and Cellular Biology
Evaluating the "Kill-the-Winner" Hypothesis in Soil Ecosystems: Do Soil Viruses Disproportionately Lyse Fast-Growing Soil Bacteria?
Advisers: Nathan Blais, Jessica Ernakovich

Poster Presentations

Aimee Bousquet

Marine, Estuarine and Freshwater Biology
Parasite Party: Investigating Ecological Drivers of Trematode Parasite Prevalence across the Isles of Shoals
Advisers: April Blakeslee, David Buck, Amy Fowler

Byron Dupuis

Biotechnology
Optimizing an Interpenetrating Network Hydrogel Culture Model for Studying Reactive Astrocytes
Adviser: Mark Scimone

Emmie Duval

Biomedical Science, Philosophy
The Ethics of Biofabrication: The Case of New Hampshire's ARMI
Adviser: Nicholas Smith

Samuel Farrington

Analytical Economics
Assessing the Impact of Education Savings Accounts on 8th Grade Students' Math and Reading Scores
Adviser: Aziz Saglam

Jesse Harriott

Analytical Economics
Occupational AI Exposure and the Wage Premium for Economics Majors
Adviser: Aziz Saglam

Claire Komar

Bioengineering
Multiscale Biomaterials Engineering for Organ Decellularization and Tissue Vascularization
Adviser: Linqing Li

Anya Munholand

Biotechnology

Isolation and Genomic Characterization of Novel Serratia Bacteriophage Northmill

Adviser: Kyle MacLea

Carter Norton

Exercise Science

Can Post-Activation Performance

Enhancement (PAPE) Improve Running Speed and Gait?

Adviser: Summer Cook

Eben Quenneville

Engineering Physics

3UCubed: The Science of Upwelling and

Uplifting Undergraduates

Adviser: Ben Chandran

Melinda Ricardo

Psychology

Learning from Experience: Do People

Adjust Affective Forecasts following Feedback?

Adviser: Jolie Wormwood

Olivia Tatro

Biology

Gene Gain and Loss Inform the Evolution of Cnidocytes and Lineage-Specific Traits in Cnidaria

Advisers: Sabrina Pankey,

David Plachetzki

Aubrie Woodward

Nursing

Voices, Boundaries, and Belonging: Ethical Considerations of In-Home Robot Use in Dementia Care

Adviser: Jing Wang

UNH Manchester Undergraduate Research Conference

Oral Presentations

Tuesday, April 21

9 a.m.–1 p.m.

88 Commercial St., Screening Room 456, Manchester

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

Adam Houtenville

Computer Science

Real-Time Audio Processing on the MSP430

Adviser: Howard Eglowstein

Sofia Renna

Biological Sciences

Studying the Effects of Salinity Percentage in Media on Antibiotic Production in Oceanic Bacteria

Adviser: Suzanne Cooke

Andrew Stanley

Biotechnology

Isolation and Purification of Oral

Bacteriophages

Adviser: Kyle MacLea

History Department Undergraduate Research Conference

Tuesday, April 21

12:40–2 p.m.

Horton Social Science Center, Rooms 201, 204, and 207

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.

Ancient and Medieval Worlds: Culture, Exchange, and Practice

Moderator: Gregory McMahon

Noah Eckert

History, International Affairs

The Cost of Defense: The Labor and Construction of 10th Century Danish Fortifications

Advisers: David Bachrach,

Elizabeth Mellyn

Claire Hobbs

History

"That She May Bear on My Knees": An Adoption Ritual in the Hebrew Bible

Adviser: Gregory McMahon

Thomas Steigler

History

The Synthesis of Scythians and Greeks in the Black Sea Region

Advisers: Michael Leese, Ethel Wolper

Community, Crisis, and Social Regulation

Moderator: Elizabeth Mellyn

Sage McCarthy Beauvais

Anthropology, History

A Wave of Change: Corporate Greed and Community Unity in the 1919 Boston Molasses Flood

Adviser: Ethel Wolper

Murphy McConnell

History

Rethinking the New Hampshire State Hospital Debate in Cheshire County in the 1830's

Adviser: Elizabeth Mellyn

Spencer Peacock

History

20,000 Soldiers on Campus: The Integration of Ole Miss

Adviser: Jason Sokol

BrookLynn Schmuke

Zoology

From Pompeii to Present Day: The Rich History of Service Dogs

Adviser: Jessica Lepler

Power, Politics, and Ideology

Moderator: Lila Knolle

Maggie Buglino

English, History

Roland D. Sawyer's Christian Socialism for a Good Life

Adviser: Lila Knolle

Dan Cole

History

Who Is against Us? Gabriele D'Annunzio, Fascist Aesthetics, and the Occupation of Fiume

Adviser: Nicoletta Gullace

Spencer Peacock

History

Almost a Civil War: John Quincy Adams and the Creek Indians

Adviser: Jessica Lepler

Reid Vaillancourt

German, History

The Good Life of Sportsmen throughout History

Adviser: Elizabeth Mellyn

Interdisciplinary Science & Engineering (ISE) Symposium

Poster Presentations

Wednesday, April 22

8 a.m.–3:00 p.m.

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.

Biology

Group Leader: Sherine Elsawa

Aimee Bousquet

Marine, Estuarine and Freshwater Biology

Parasite Party: Investigating Ecological Drivers of Trematode Parasite Prevalence across the Isles of Shoals

Advisers: April Blakeslee, David Buck, Amy Fowler

Olivia Boyan

Zoology

New Hampshire Shellfish under Pressure: Physiological Effects of Climate Change and Toxic Algal Blooms

Adviser: Brittany Jellison

Nicholas Caporale

Marine, Estuarine and Freshwater Biology

Milo Sheffield

Environmental Sciences, Sustainability

Kyler Tremblay

Ocean Engineering

Construction of a Controlled Multi-Flow Recirculating Aquatic System for Behavioral and Growth Studies in Juvenile Fish

Advisers: Adam Brockett, Karolina Kwasek

Olivia Lucia

Marine, Estuarine and Freshwater Biology

Quantifying Toxin Gene Expression in a Harmful Algal Bloom Species in Coastal NH

Adviser: Elizabeth Harvey

Dhiraj Naidu

Biochemistry, Molecular and Cellular Biology

Evaluating the "Kill-the-Winner"

Hypothesis in Soil Ecosystems: Do Soil Viruses Disproportionately Lyse Fast-Growing Soil Bacteria?

Advisers: Nathan Blais, Jessica Ernakovich

Esher Swanson

Marine, Estuarine and Freshwater

Biology, Sustainability

Playing with Sea Monkeys: An

Examination of the Use of Decapsulated Artemia as a Means of Improving Current Zebrafish Culture Practices

Adviser: Karolina Kwasek

CEPS Cross-Disciplinary

Group Leader: Liz Wade

Zachary Holt

Electrical Engineering

Development and Testing of a Portable Non-Dispersive Infrared Spectrometer for Real-Time Nitrous Oxide Monitoring

Adviser: MD Shaad Mahmud

Pavel Subotskij

Mechanical Engineering

Design and Implementation of a CoreXY 3D Printer Using Off-the-Shelf Components

Adviser: Juan Carlos Cuevas Bautista

Alberto Villarroel Camarzana

Electrical Engineering

Design and Evaluation of Optical Communication Links

Adviser: Edward Song

Chemical Engineering and Bioengineering — Group A

Group Leader: Nan Yi

Andrea Bartus

Chemical Engineering

Ella Roberts

Chemical Engineering, Theatre
Waste to Energy: A Case Study on Gasification and Bio Digestion at UNH
Adviser: Christopher McLarnon

Jacob Bibeau

Chemical Engineering

Photocatalytic Non-Oxidative Coupling of Methane

Adviser: Nan Yi

Eric Boheen

Bioengineering

Photothermal Switchable Micelle-Like Nanoparticles Using ELP-RLP Diblock Polymers

Adviser: Linqing Li

Eamon Furlong

Chemical Engineering

Effect of Titanium Dioxide Crystalline Phases on Glycerol Hydrogenolysis

Adviser: Nan Yi

Allison Kish

Bioengineering

Engineering the Interaction between Regulators and Their Cognate DNA for the Detection of Heavy Metals

Adviser: Kang Wu

Kate Lussier

Biomedical Science

The Stability of a PolyHistidine Tag as a Linker

Adviser: Jeffrey Halpern

Sebastian Nichols

Chemical Engineering

Synthesis and Characterizations of Nickel-Titanium Layered Double Hydroxides

Adviser: Nan Yi

Elise Provencher

Chemical Engineering

Carbon Dioxide Methanation over Nickel-Titanium Mixed Metal Oxide (Ni-Ti MMO) Catalysts

Adviser: Nan Yi

Will Steere

Chemical Engineering

Valorization of Biomass Derivatives to Monomers by M-MOx Catalytic Hydrogenation and Hydrodeoxygenation

Adviser: Alan Allgeier

Chemical Engineering and Bioengineering — Group B

Group Leader: Nan Yi

Cayden Bowen

Biomedical Science

Matthew Ryan

Bioengineering

Sacrificial Gelatin Microstructures in Dextran Hydrogels for Wound Healing Applications

Adviser: Linqing Li

Sean Boyle

Trevor Convent

Evan Guernelli

Jack Reynolds

Bioengineering

Fabrication of Electrospun Salmon-Derived Fibrin Patch for Accelerated Wound Healing

Adviser: Linqing Li

Madilynn Clark

Trinity Devanney

Meghan Herlihy

Bioengineering

Mechanically Tunable Hydrogel-Based Clearance Assay for Ovarian Cancer Modeling

Adviser: Linqing Li

Andrew Critides

Peter Hyatt

Evan Kennedy

Naya Leslie

Rachana Padamati

Bioengineering

Mineral-Based Scaffolds Integrated with Hybrid Hydrogels for Bone Tissue Engineering

Adviser: Linqing Li

Anna Geho

Engineering Physics

Radiomic Features for Comprehensive Assessment of Rectal Cancer Treatment Response via Post-Chemoradiation MRI

Adviser: Satish Viswanath

Tyler Hamel

Biomedical Science

Identifying Novel GLI2-Associated Secretory Targets in Waldenström's Macroglobulinemia

Adviser: Sherine Elsawa

Nicki Hyslop

Animal Science

Effects of Calcium Ionophore and Thrombin on the Expression of Angiogenic Factors in Bovine Luteal Cells

Adviser: Paul Tsang

Claire Komar

Bioengineering

Designer Hydrogels with Combinatorial Adhesive Peptides for Cell Culture

Adviser: Linqing Li

Andrea Milani

Taylor Oster

Bioengineering

Innovating Resin Slurry Quantification for Biopharmaceutical Chromatographic Applications

Adviser: Linqing Li

Jack Reynolds

Bioengineering

Promoting Oligodendrocyte Differentiation from Human Neural Stem Cells for 3D Myelination Models

Adviser: Kyung Jae Jeong

Chemistry — Research

Group Leader: Stacey Hughes

Maria Anton

Chemistry

Peptide Synthesis for Iron Chelation

Adviser: Roy Planalp

Lauren Barnes

Biochemistry, Molecular and Cellular Biology

Large Scale Enzyme Production for Topologically Controlled dsDNA Hydrogels

Adviser: Nate Oldenhuis

Rose Blaney

Biochemistry, Molecular and Cellular Biology

Substituent Effects in BAPTA-Based Ion Binding: A Computational Investigation

Adviser: Sean Edington

Camden Boisvert

Biochemistry, Molecular and Cellular Biology
Solvent Effects on Carboxylate Stretching Frequencies in EGTA
 Adviser: Sean Edington

Amy DiVito

Biochemistry, Molecular and Cellular Biology
Designing DNA Intercalating Supramolecular Hydrogels with Tunable Structural Properties
 Adviser: Nate Oldenhuis

Alex Fitzgerald

Chemistry
Biological Evaluation of Chelators
 Adviser: Roy Planalp

Pearson Franz

Chemistry
Synthesis of Hoechst and Psoralen-Based DNA Cross-Linkers for Dynamic Hydrogels
 Adviser: Nate Oldenhuis

Eddie Gaffny

Chemistry
Synthesis of Cyclodextrin Precursors for the Generation of Novel Crystalline Materials for Environmental Remediation
 Adviser: Aylin Aykanat

Kelsey Hodsdon

Biochemistry, Molecular and Cellular Biology, Justice Studies
Generating Concentrated Ring Polymers through Supercoiled and Open Circle pDNA Isoform Separation
 Adviser: Nate Oldenhuis

Aliyah Krestalica

Chemistry
Membrane-Targeted BODIPY Photosensitizers for Spatially Controlled ROS Generation at Lipid Bilayers
 Adviser: Brittany White-Mathieu

Lucas Laventure

Biochemistry, Molecular and Cellular Biology
Exploring Redox Responsiveness and Stability of Flexible Disulfide-Linked Metal-Organic Frameworks
 Adviser: Aylin Aykanat

Kaylee Murphy

Chemical Engineering
Green Colloidal Electrospinning of Degradable Nanofibers
 Adviser: Sean Edington

Hunter Nordin

Chemistry, Music
Air Gapped Liquid Plug Workflow of Atomic Emissions Spectroscopy for Ultra Low Volume Sample Analysis
 Adviser: Anyin Li

Madison Pageau

Chemistry
Investigations of Optical Properties: Sensing Hydrogen Peroxide Using Activity-Based Sensors
 Adviser: Brittany White-Mathieu

Mason Russell

Chemistry
Synthesis and Characterization of Rhodamine Iron (II) Sensors for Multiplex Imaging of Cell Membranes
 Adviser: Brittany White-Mathieu

Chemistry — Senior Thesis**Group Leader: Stacey Hughes****Tyler Brock**

Chemistry
Tetrapeptides for Remediation of Lead from Water
 Adviser: Roy Planalp

Alexandra Caliri

Chemistry
Molecular Doping of g-C₃N₄ for Enhanced Solar CO₂ Reduction on Single Atom Catalysts
 Adviser: Gonghu Li

Elisabeth Gotschlich

Chemistry
Synthesis of Thiolated Precursors for Drug Delivery Applications
 Adviser: Aylin Aykanat

Lily Grymko

Chemistry
Investigating the Cation Binding Properties of NTA at Varying pH
 Adviser: Sean Edington

Matthew Huebner

Chemistry
Supramolecular Self-Assembly for Anchoring Electrocatalysts to Surfaces for Catalytic Hydrogen Production
 Adviser: Christine Caputo

Rebecca Lahousse

Chemistry
Mapping Host-Guest Chemistry: ITC, Fluorine NMR, and Molecular Dynamics Characterization of Cyclodextrin-PFAS Binding
 Adviser: Aylin Aykanat

Sean Loft

Chemistry
Synthesis and Characterization of Three Diketones: 1,4-di-2'-pyridinyl-1,4-butanedione, 1,4-di-3'-pyridinyl-1,4-butanedione and 1,4-di-4'-pyridinyl-1,4-butanedione
 Adviser: Glen Miller

Muriel Lubelczyk

Chemistry
Macrocyclic Chromophores as a Novel Class of Fluorescent Molecules
 Adviser: Brittany White-Mathieu

Nicholas Mixon

Chemistry
Development of Rhodamine Scaffold Activity-Based Sensors for Monitoring Lipid Bilayer Dynamics in Cell Death Pathways
 Adviser: Brittany White-Mathieu

Samuel Moreau

Chemistry
Macrocyclic Confinement of Squaraine Dyes for Enhanced Photophysical Performance
 Adviser: Brittany White-Mathieu

Phoebe Nitchals

Chemistry
Solar-Driven CO₂ Reduction with Carbon Nitride and Nickel-Doped Black Phosphorus Materials
 Adviser: Christine Caputo

Laura Sharples

Chemistry
Molecular Doping Strategies for Carbon Nitride Photocatalysts in Dye Degradation
 Adviser: Gonghu Li

Shane Stukenborg

Chemistry

Novel Ligand Design, Synthesis, and Characterization of Iron-Targeting Chelators for Biological Iron Removal
Adviser: Roy Planalp

Kaleigh Wilson

Chemistry

Functionalizing Adamantane on Demand via Adamantyl Cation Chemistry
Adviser: Glen Miller

Civil and Environmental Engineering — Group A

Group Leader: Anthony Puntin

Joshua Alpert**Joseph Pender**

Civil Engineering

Nikhila Lampman**Rowan Pow****Matthew Runk**

Environmental Engineering

Robinson Pond Stormwater and Boat Access Improvements

Adviser: Jennifer Jacobs

Griff Bates

Environmental Engineering, Sustainability

Jane McCue**Abbie Speshock**

Environmental Engineering

Lily Roberts

Civil Engineering, Sustainability

Former Manufactured Gas Plant Remediation

Adviser: Lisa Damiano

Patrick Browning**Zach Walter Forfar****Oliver James Haigh****Benjamin John Milburn**

Civil Engineering

Dorm on Troubled Ground

Adviser: Majid Ghayoomi

Quincy Burger**Ava Chretien****Ethan Cutler**

Environmental Engineering

Elisabeth Drakatos**Briana Shaw**

Civil Engineering

Small Scale Surface Water Treatment System Design

Adviser: Paula Mouser

Angelo Cedrone**Cam Holbrook****George Nigro****Jason Sathananthan****Michael Vouglas**

Civil Engineering

Hampton Beach Casino Ballroom Redevelopment Project

Advisers: Philippe Kalmogo, Anthony Puntin, Christopher Raymond, Michelle Thibault

Katie Coyle**Mavrik Dostie****Ana Rolfe**

Civil Engineering

American Society of Civil Engineers Steel Bridge

Adviser: Yashar Eftekhari Azam

Madeline Dubosque

Environmental Engineering

Emily Lima**Noah Matthews****Greer Merrill**

Civil Engineering

Bennington Intersection Improvement Project

Adviser: Anthony Puntin

Civil and Environmental Engineering — Group B

Group Leader: Philippe Kalmogo

Lindsey Beck**Mitchell Berry****Alexia Garcia****Dylan Nutting****Evan Perkins**

Civil Engineering

Hampton Academy Middle School Gymnasium and Site Improvements

Adviser: Yashar Eftekhari Azam

Ian Becker**William Fogarty****Eddie Schluter****Patrick Thavisouk**

Civil Engineering

F.E. Everett Bridge Replacement

Adviser: Matthew Low

Mitchell Berry

Civil Engineering

Flood Mapping of the Seabrook-Hampton Estuary: Assessing Coastal Vulnerability

Adviser: Fei Han

Josephine Bourgeault**Britt Brogna****Farrah Hardenbergh****Isaac Lapointe****Aiden Nick**

Civil Engineering

Campton, NH: Intersection of NH Route 49 and NH Route 175 Resign

Adviser: Jo Sias

Diana Eliasson**Appalachia Kunz****Nick Swanson**

Civil Engineering

Nathan Nesbit

Environmental Engineering

Gregg Lake Dam Rehabilitation Project

Adviser: Fei Han

Emmett Hardwick**Nathan Nicholson****Ryan Patten****Travis Perkins**

Civil Engineering

Sanford Public Works Garage Replacement and Facility Improvements

Adviser: Anthony Puntin

Jacob Holt

Civil Engineering

Concord Public Transportation Improvement Project

Advisers: Eshan Dave, Jo Sias

Civil and Environmental Engineering — Group C

Group Leader: Mohammad Tahmasebi

Hayden Anastasio

Grace Burcaw

Robert Hickling

Environmental Engineering

Noah LaFlamme-Howe

Civil Engineering

Acoustic Sensor for Measuring Slick

Thickness during Oil Spill Response

Advisers: Nancy Kinner, Gabriel Venegas

Julian Baldwin

Nicholas James Moretti

Murray Reynolds

Ian Stewart

Civil Engineering

Advanced Technology Homestead

Adviser: Felix Devito

Mitchell Berry

John Paul Donovan

Mia Greig-Ragen

Estella Gross

Bowen Mather

Eddie Schluter

Civil Engineering

ASCE Concrete Canoe

Adviser: Fei Han

Isabella Dee

Elizabeth DelGiudice

Environmental Engineering, Sustainability

Emma Doyle

Aiden Tripaldi

Environmental Engineering

Star Island Rainwater Treatment

Filter Design

Adviser: Matthew Ferby

Liam Fillion

Jack Horne

Kristen Kirk

Environmental Engineering

Jackson Estuarine Lab Recirculating

Aquaculture System

Advisers: Matthew Florence,

David Fredriksson

Drew Gulley

Jacob Holt

Caden Small

Nathan Taylor

Civil Engineering

Eric Ierardi

Civil Engineering, Sustainability

NH 155 at Madbury Road Intersection

Improvements

Adviser: Eshan Dave

Computer Science — Applications

Group Leader: Lisa Henry

Martin Babak

Niall Gavin

Tyler Norcross

Computer Science

Dialogix

Adviser: Lisa Henry

Declan Baker

Joseph Cote

Owen Davidson

Zihan Pan

Computer Science

Developing a Bot for Use in Computer

Science Teams Channels and the

Programming Assistance Center

Adviser: Matthew Plumlee

Jordan Beach

Information Technology

Forrest Close

Analytics and Data Science

Jacob Loving

Sierra Parsons

Computer Science

School Health Map

Adviser: Chad Killian

Everett Brown

Jordin Carey

James Connolly

Deven Deming

Brady Quigley

Computer Science

Brendon Conlin

Information Technology

Battlezone Reloaded Client

Adviser: Matthew Plumlee

Rayya Burns

Troy Ciardelli-Zaryckyj

Vincent Ciccotelli

Brett Dupont

May Fallon

Anthony Snider

Computer Science

Free Fall Penetrometer Data

Analysis Application

Adviser: Julie Paprocki

Gabriel Burt

Nathaniel Kloza

Information Technology

Jacob Mitchell

Computer Science

myPE Platform

Adviser: Chad Killian

Adam Ingersoll

Information Technology

Dillon Ladd

Willow Leverone

Ryan Plaza

Nicholas Schoenfeld

Computer Science

Battlezone Server

Adviser: Matthew Plumlee

Logan Rusch

Information Technology

Steven Taranto

Computer Science

Dark Pages – Horror Game

Demo Build

Adviser: Maxim Budyansky

Computer Science — Data Science

Group Leader: David Benedetto

Bohdan Barnett

Aidan McErlain

Analytics and Data Science

Joshua Beaton

Quinton Center

Zachary Dubuc

Jacob Hodgdon

Computer Science

PiRail: Railway Fault Detection

Advisers: Jon Miner, Craig Smith

Maxx Berry**Lauren Broadbent****Gordon Chau****Ariel Sousa****Max Vivino**

Analytics and Data Science

Evan Braley

Computer Science

*PACE: Pupillometric Analysis of**Cognitive Effort*

Adviser: Lisa Henry

Matthew Cariseo**Sam Howard****Matthew Szpak**

Computer Science

Evan White

Information Technology

Network Behavior

Adviser: Scott Kitterman

Kristian Comer**Liam White**

Computer Science

Ashley Lescarbeau**Sarah Wall**

Analytics and Data Science

James Tourigny

Information Technology

Roads of the Sea

Advisers: Arijs Hendrarto,

Christos Kastrisios

Derek Dong

Computer Science, Music

Hunter Janetos**Mark Rittgers**

Analytics and Data Science

Flynn O'Sullivan**Anthony Rose****Liam Warren**

Computer Science

Poop Tracker Project

Adviser: Craig Smith

Tyler Geffard

Information Technology

Rishal Khatri**Dean Marx****Caleb Rockwell****Ben Spiller****Sam Strange****Michael Vinciguerra**

Computer Science

Abigail Miller

Analytics and Data Science

Dylan Royle

Computer Engineering

*Data-Driven Retrieval-Augmented**AI for Security Operations*

Adviser: Joseph Gray

**Computer Science —
Independent Projects****Group Leader: Craig Smith****Maxx Berry**

Analytics and Data Science

*Music CurAItor: A Personalized Music**Recommendation AI Agent*

Adviser: Matthew Magnusson

Gordon Chau

Analytics and Data Science

Andrew Lester

Analytics and Data Science,

Information Technology

Lab Assistant

Adviser: Matthew Magnusson

Cameron Green

Computer Science

*Assessing the Efficacy of College**Campus Safety and Wellness Apps*

Advisers: Radim Bartos, Sharyn Potter

Ashley Lescarbeau

Analytics and Data Science

AI Agent for Misinformation Detection

Adviser: Matthew Magnusson

Abigail Miller

Analytics and Data Science

*Smart Sprout: Agentic Plant**Identification Agent*

Adviser: Matthew Magnusson

Nicolas Siagian

Analytics and Data Science

*Building an AI Investment Advisor: A**Multi-Agent System for Real-Time Stock**Analysis and Portfolio Recommendations*

Adviser: Matthew Magnusson

Tyler Simone

Analytics and Data Science

Biomedical Research Relevance Model

Adviser: Marek Petrik

Tyler Simone

Analytics and Data Science

James Tourigny

Information Technology

Resource Allocation and Prediction Agent

Adviser: Matthew Magnusson

Michael Spearman

Computer Science

*Detection and Management of Attacks on**Time-Synchronized Networks*

Adviser: Radim Bartos

Jaren Unzen

Computer Science, International Affairs

*Evaluating Segment Anything Model for**Estuary Mudflat Segmentation*

Advisers: Samuel Carton, Julie Paprocki

**Computer Science — Systems/
Infrastructure****Group Leader: Craig Smith****Owen Cannon**

Analytics and Data Science

Evan Czerwinski**Damien Fabiano****Chase Santovasi****Gavin Tucker**

Computer Science

Thomas White

Information Technology

Lightning Weather Station

Adviser: Matthew Argall

Jacob Chapman**Christian Cunio****Kyle Goodwin****Jackson Haubert****Ryan McCarthy****Jacob Musgrave**

Computer Science

*AI Assistant for Home Gas and**Oil Company*

Adviser: David Benedetto

Alyssa Grave Colandreo
Quinn Junco
Daniel O'Connell
Collie Petersen
 Computer Science
Quad-X Swarm
 Adviser: May-Win Thein

Samuel Harris
Ryan Laidlaw
Luke Rossel
Alec Rydeen
 Computer Science
Tamaralynn Shute
 Analytics and Data Science
Space Weather Center
 Adviser: Matthew Argall

Aidan Kane
Aaron Owre
Conner Sheehan
 Computer Science
Ethan Northcott
 Analytics and Data Science

Brian Winslow
 Information Technology
UNH Lunabots Computer Science Subteam: Autonomous Navigation and Teleoperation
 Adviser: May-Win Thein

Leo Kopicko
Prince Ojha
 Information Technology
Matthew McDowall
 Analytics and Data Science
Philip Workman
 Computer Science
Subsea Cable
 Adviser: Lisa Henry

Earth and Environmental Engineering

Group Leader: Rose Came

Madeline Eaton
 Ocean Engineering
Edward Evans
 Civil Engineering
Vivian Oliver
 Educational Studies, Wildlife and Conservation Biology
Sebastian Roberts
 Mechanical Engineering
Experimental Window-Type Photobioreactor to Grow Algae
 Advisers: Felix Devito, Md Sazan Rahman

Joss Ebersole
 Mechanical Engineering, Sustainability
Jessamine Hui
 Bioengineering
Evey Jurden
 Biomedical Science
Delainey Pari
 Genetics
Algae-Powered Green Buildings
 Advisers: Felix Devito, Md Sazan Rahman

Zachary Holt
 Electrical Engineering
Snowpack Characterization Using Low-Cost FMCW Radar
 Advisers: Adam Hunsaker, Jennifer Jacobs, Jeremy Johnston

Nova Robbins
 Mechanical Engineering
Marine Snow Exploration
 Adviser: Theresa Oehmke

Earth and Environmental Sciences

Group Leader: Rose Came

Bethany Cutter
 Earth Sciences
Rare Earth Elements in Foliage in Recently Glaciated Terrains
 Adviser: Julie Bryce

Sebastian Eid
Connor Paul
 Environmental Sciences
Using Geospatial Analysis to Evaluate Stream Crossing Replacements in New Hampshire
 Adviser: Anne Lightbody

Becker Gibson
 Environmental Sciences
Modeling Hydroelectric Power Generation in New England
 Adviser: Danielle Grogan

Curtis Kimball
 Earth Sciences, Sustainability
Linking Amorphous Silica in Gulf of Mexico Sediments to the Late Pleistocene Deglaciation of North America
 Adviser: Joel Johnson

Sydney Vanasse
 Environmental Sciences, Sustainability
Integrated Historical Analysis of Changing Climatic Conditions That Affect Invasive Species Dynamics in the Oyster River Watershed
 Adviser: Anne Lightbody

Electrical and Computer Engineering – Interacting with People

Group Leader: MD Shaad Mahmud

Paige Blackwood
 Electrical Engineering
Energy-Harvesting Piezoelectric Monitoring System for Memory Loss Patients
 Adviser: Wayne Smith

Samantha Boette
Jared Dumont
 Electrical Engineering
SmartMed: Sensor-Locked, Multi-Alert Pill Case for Safer Medication Adherence
 Adviser: John LaCourse

Colin Casey
Olivia McKay
 Electrical Engineering
Yash Patel
 Computer Engineering
User-Calibrated Frequency Mapping Headset
 Adviser: John LaCourse

Evan Cote
Elijah Garofalo
Caleb Knox
 Electrical Engineering
Piezoelectric Energy Harvesting for Next Generation Power Solutions
 Adviser: John LaCourse

Jordan Friedly
 Computer Engineering
Smart Insole System for Bowlegs and Knock Knees Detection
 Adviser: Diliang Chen

Nolan Juneau
 Electrical Engineering
μModules: A Low-Cost, Eurorack-Compatible Modular Audio Synthesis System
 Adviser: Wayne Smith

Paige McAfee

Electrical Engineering
Pedal Parrot: Effect-Mimicking Electric Guitar Amplifier
 Adviser: Wayne Smith

Andrej Mistrik

Electrical Engineering
Evaluating Thermal Imaging for Privacy-Preserving Upper Body Posture Management
 Adviser: Diliang Chen

Parker Reed

Electrical Engineering
LLM-Supported Decisions
 Adviser: Andrew Kun

Electrical and Computer Engineering – Sensing and Action in the Real World

Group Leader: Andrew Kun

Ryan Achong

Didi Chiu
 Electrical Engineering

Noah Motyl
 Computer Engineering
Autonomous Micromouse
 Adviser: Se Young Yoon

Gavin Campbell

Nicholas Rioux
 Computer Engineering
Underground Piezo Pest Detection and Identification
 Adviser: Wayne Smith

Colin Carta

Nicholas Lizotte
 Electrical Engineering
RF Front End Boards
 Adviser: Nicholas Kirsch

Sabby Clemmons

Electrical Engineering, French

Sarah Remeis
 Electrical Engineering
Wormhole: A Soft-Robotic Capture Device for Orbital Space Debris Mitigation
 Advisers: Brad Kinsey, Se Young Yoon

George Crane

Computer Engineering
BitCrusher: Affordable, Open Source, Electromagnetic Fault Injection Platform
 Adviser: Dean Sullivan

Jack Dubeau

Electrical Engineering
Cross-Ocean Acoustic Classification Using Machine Learning
 Adviser: Nicholas Kirsch

Kieran Fitch

Electrical Engineering
Comparing IoT Data Integrity Solutions in a Smart-Home Environment
 Adviser: Dean Sullivan

Erica Graham

Zachary Walsh
 Electrical Engineering

Joseph Kennedy
Merrisa Knowles
Finneas Rogers
 Computer Engineering
Determining Optimal Sensor Configuration for Autonomous Navigation of Lunar Excavation Robot
 Advisers: May-Win Thein, Se Young Yoon

Md Jonayet Hossain

Electrical Engineering
AI-Based Signal Analyzer and Equalizer
 Adviser: Nicholas Kirsch

Shane Kurland

Electrical Engineering
Design and Simulation of an RF PCB (MIPI Reference Receiver)
 Adviser: Wayne Smith

Innovation Scholars

Group Leader: Shawna Hollen

Kyle Al-Hajj

Computer Science

Sachit Kurup
 Electrical Engineering

Kevin Ouellette
 Mechanical Engineering

Matilda Schroeder
 Computer Science, French
Match Up

Advisers: Kyle Ouellette, Dean Sullivan

Jack Anderson

Alonso Michaud Zevallos
Brayden O'Sullivan
 Mechanical Engineering
Analysis of Interlocking 3D-Printed Concrete Walls
 Adviser: Benjamin Mitchell

Matthew Anderson

Ryad Ouhabbi
 Physics
Holographic Visualization of Astronomical Structures
 Adviser: John Gibson

Searra Andrews

Chemistry
Alex Blasbalg
 Electrical Engineering
Evan Wilson
 Bioengineering
Development of Fatty Acid Lipid Standards for Membrane Bilayer Imaging
 Advisers: Linqing Li, Brittany White-Mathieu

Avery Andrews

Graham Colburn
Brenna McGuire
 Ocean Engineering
Wind Influence on Flooding in the Hampton-Seabrook Estuary
 Advisers: Matthew Florence, Thomas Lippmann

Fiona Ansbro

Mechanical Engineering
Sara Camargo Santiesteban
Duru Elbi
 Bioengineering
Visualizing Fluid Dynamics
 Adviser: John Gibson

Aidan Ayer-Richardson

Gavin Costa
 Undeclared
Wesley Barlow
 Mechanical Engineering
Exploring Vibrations through Sound: Chladni Plates and the Math behind Vibration Theory
 Adviser: John Gibson

Christian Balusek

Applied Mathematics

Trevor Cormier

Chemical Engineering

Samuel Geho**Samuel O'Connell**

Engineering Physics

*Low Dimensional Models of Steady**State Solutions in Plane Couette Flow*

Adviser: John Gibson

Vincent Bates

Environmental Engineering

Ally Canatsey**Katelyn Whiteman**

Earth Sciences

Luke Grabowski

Civil Engineering

Monitoring the 2025 New England Drought

Adviser: Matt Davis

Cara Berman

Analytics and Data Science

Kendall Hatch**Olivia Rogers**

Mechanical Engineering

3D-Printed Interlocking Fish Tanks

Adviser: Benjamin Mitchell

Jericho Bien

Physics

Thomas Madden**Bonnie Moore**

Civil Engineering

*A Virtual Reality Model of the UNH**Energy Plant*

Adviser: Matt Davis

Oliver Brown

Chemical Engineering

Sophie DeMott

Environmental Sciences

Maria Soares

Electrical Engineering

Ryder Wanamaker

Environmental Engineering

Prospecting for Lithium in Pegmatites

Adviser: Matt Davis

John Buck

Electrical Engineering

Cameron Crooks

Humanities, Ocean Engineering

Wiley Shellenberger

Mechanical Engineering

Michael Sokol

Civil Engineering

Seagrass Acoustic Detection System

Adviser: Gabriel Venegas

Chase Carlton**Andrew Martin-Biggs****Tessa Wilker**

Environmental Engineering

Ashley Leach

Environmental Engineering, Sustainability

Controlled Environment Agriculture

Adviser: Matt Davis

Avery Charland**Rebecca Meyer****Alessio Polito****Mia Walthousen****Mia Woodman**

Bioengineering

*Decellularized Organs as an Autologous**Alternative for Transplantation*

Adviser: Linqing Li

Zachary Connolly-Gurley**Liam Green**

Civil Engineering

Joss Ebersole

Mechanical Engineering, Sustainability

Swornnim Rai

Computer Engineering

*Analyzing the Efficacy of the James Hall**Green Roof*

Adviser: Matt Davis

Brady Crossman

Chemical Engineering

Yury Ovchinnikov

Bioengineering

*Fast and Slow Synthesis of γ -Cyclodextrin**Metal-Organic Frameworks and**Investigation of Morphology Effects on Dye**Adsorption Kinetics*

Advisers: Aylin Aykanat, Linqing Li

Lukas Crowe

Chemistry

Garrett Follansbee

Ocean Engineering

*3D-Printed Housing System for Attaching**Wind Speed Measurement Devices to**Unmanned Aerial Vehicles*

Advisers: Matthew Florence,

Nathan Laxague

Karla Daha**Mackenzie Fournier****Abby Guerrette**

Environmental Engineering

Orla Fogarty

Ocean Engineering

Noah Metters

Chemical Engineering

Erik Niebel**Amna Zeeshan**

Mechanical Engineering

Lily Szulc

Undeclared

Applications of Algae in Sustainability

Adviser: Matthew Florence

Will Donovan**Nate Doyle****Travis Fitzpatrick****Hunter Lambert****Caleb McCarthy****James Puopolo**

Mechanical Engineering

*Evaluating Auxetic Metamaterial**Structures in Nitinol and Conventional**Alloys for High-Impact Applications*

Adviser: Benjamin Mitchell

Mackenzie Doyle

Physics

Gabriel Locke

Statistics

Algorithmic Redistricting of the U.S. House

Adviser: John Gibson

Devaja Dutta

Electrical Engineering

Jessamine Hui

Bioengineering

Vlayronell Lora Gonzalez**Ivan Seryogin**

Computer Science

User-Friendly Irrigation System

Advisers: Kyle Ouellette, Dean Sullivan

Matthew Flanagan

Electrical Engineering

Aidan Grady**Philip Maly**

Computer Engineering

Evan Wong

Mechanical Engineering

Chopped AI

Advisers: Kyle Ouellette, Dean Sullivan

Allie Fratini

Mechanical Engineering

Arduino-Controlled Action Figure

Adviser: Benjamin Mitchell

Johnny Gogas**Cailun Gordon****Nico Henderson****Jakob Robblee**

Mechanical Engineering

Auxetic Metamaterial Hockey Stick

Adviser: Benjamin Mitchell

Harry Gurney**Matthew Mancebo**

Bioengineering

Jack Totten Binnie

Chemistry

*Tunable Biocomposite Dextran-ELP**Hydrogel as Smart Biomaterial*

Adviser: Linqing Li

Seamus Gustafson

Bioengineering

Pearl Hoekstra-Toste

Engineering Physics

*Quantitative Analysis of Voices to**Improve Singing Technique*

Adviser: John Gibson

Silas Johnson**Joshua Kelly**

Mechanical Engineering

*Fracture Toughness of Auxetic**Metamaterials*

Adviser: Benjamin Mitchell

Evan Kennedy**Briana Killarney**

Bioengineering

Elsa Rogers

Chemical Engineering

Tuning Collagen-DexMA Ratio and Stiffness for the Vascularization of Cells

Adviser: Linqing Li

Ryan Kulsic**Ethan Pallipamula**

Computer Science

Andrew Moore

Environmental Engineering

Soccer Offsides Detector

Advisers: Kyle Ouellette, Dean Sullivan

Daisy LaPlante

Electrical Engineering

Annie Lin

Computer Engineering

Ujjaini Shrestha

Computer Science

Eco Power Strip

Advisers: Kyle Ouellette, Dean Sullivan

Anthony Lopez-Ortiz

Mechanical Engineering

Sym-Body: Symmetry of Kinesiology

Adviser: John Gibson

Evan Munoz

Applied Mathematics

*An Analysis on Moiré Patterns**in Halftones*

Adviser: John Gibson

Addison Nanry

Bioengineering

Emma Sharkey

Chemical Engineering

*Electrospun Bio-Derived Polysaccharides**and Proteins for Wound Healing**Applications*

Adviser: Linqing Li

Mathematics and Statistics**Group Leader: Michelle Capozzoli****Nick Fischer**

Mechanical Engineering

*Study of Wall Modes in Rapidly Rotating**Convection*

Adviser: Jeff Oishi

Dija Haq

Applied Mathematics

*When Do Macroeconomic Indicators**Improve Portfolio Optimization?*

Adviser: Adam Boucher

Eben Quenneville

Engineering Physics

*Algebraic Models of Plane Couette**Equilibria*

Adviser: John Gibson

Anya Raetsch

Applied Mathematics

*Computationally Modeling NDMA**Blockages within a Neural Network*

Adviser: Mark Lyon

**Mechanical Engineering —
Competition and Clubs****Group Leader: Benjamin Limric****Joseph Aubut****Jonathan Dean****Sam Harms****Joshua Lesniak****Matthew McCoy**

Mechanical Engineering

UNH FSAE: Powertrain

Adviser: Juan Carlos Cuevas Bautista

Nicholas Beane**Connor Bernard****Samuel Fauteux****Ryan McShan**

Mechanical Engineering

UNH FSAE: Controls

Adviser: Juan Carlos Cuevas Bautista

Nicholas Casey**Elias Lahti****Geo de Clermont**

Mechanical Engineering

UNH LunaCats: Mining Subsystem

Adviser: May-Win Thein

Ryan Clarkin**Douglas Coulter****William Metz****Connor Shea**

Mechanical Engineering

UNH SEDS: Hybrid Rocket Engine Team

Adviser: James Clemmons

Cam Conant**Eli Fitzgerald****Will Sargent**

Mechanical Engineering

UNH Lunacats: Drivetrain

Adviser: May-Win Thein

James Costlow**Nathaniel Folcik****Aaron King****Kaden Lints**

Mechanical Engineering

Mini Baja

Adviser: Juan Carlos Cuevas Bautista

Liam Curran
Brodie Haughey
Ethan Houllahan
Giovanni Ionfrida
 Mechanical Engineering
BAJA SAE
 Adviser: Juan Carlos Cuevas Bautista

Kyle Foster
Jack Hamlin
Jake Mueller
William Sherts
 Mechanical Engineering
UNH FSAE: Aerodynamics
 Adviser: Juan Carlos Cuevas Bautista

Colin Guido
Camden MacLean
Nicholas Revis
Matthew Wharton
 Mechanical Engineering
High-Altitude Autonomous Apogee-Modulating System for High-Powered Rocketry (HAAAMSHR)
 Adviser: James Clemmons

Mechanical Engineering — Faculty-Sponsored Projects

Group Leader: Zoe Wolters

Anthony Bilodeau
 Mechanical Engineering
Randall O'Neil
 Engineering Physics
Deployable Hybrid Rocket for High-Altitude Data Collection
 Adviser: Marc Lessard

Austin Boutin
Garrett Dion
Isabelle Hu
 Mechanical Engineering
AIOLOS: Autonomous Inventory Organization or Laboratory Operations Suite
 Adviser: Nathan Laxague

Patrick DeAnna
Paul Marino
Noah McCandless
Jameson Solomon
Brian Truong
 Mechanical Engineering
VTOL-X
 Adviser: May-Win Thein

David Desfosse
Christopher Giovanni
Samuel Hilts
Max McCabe
 Mechanical Engineering
Modular Pedalboard System
 Adviser: John Roth

Viktorie Vagnerova
 Mechanical Engineering
Reaction Wheel Actuated UAV Platform for Spacecraft Attitude Control Testing
 Adviser: May-Win Thein

Mechanical Engineering — Industry

Group Leader: Hector Chinchay

Zachary Beardsley
Jesse Franklin
Mitchell Hauser
Wyatt McLaughlin
Matthew Yates
 Mechanical Engineering
Mount Washington Cog Railway Electric Multipurpose Vehicle (EMPV)
 Adviser: Ivaylo Nedyalkov

Benjamin Blumsack
Ryan Humphrey
Bradley Smith
 Mechanical Engineering
Structural Component Additive Repair Robot
 Advisers: Cordi Norris, John Roth

Travis Boufford
Evan Hemingway
Ryan MacKay
Peyton Marshall
 Mechanical Engineering
Backpack Trash Management System
 Adviser: Ivaylo Nedyalkov

Owen Figg
Nova Robbins
Viktorie Vagnerova
 Mechanical Engineering
HEX: Autonomous Orbital Experimental Facility
 Adviser: John Roth

Ocean Engineering

Group Leader: May-Win Thein

Luke Abanilla
 Engineering Physics
Christopher Bartos
 Ocean Engineering
Pedro Doukas
 Mechanical Engineering
Isac Hedstrom
 Computer Science
Marine and Naval Technological Advancements for Robotic Autonomy (MANTA RAY): KRILL
 Adviser: May-Win Thein

Joey Baker
Ethan Hickey
Tatum Laws
 Ocean Engineering
Air Sea Flux Lidar Buoy
 Adviser: Nathan Laxague

Kylie Blanchette
 Marine, Estuarine and Freshwater Biology
Ahmed Nada
 Ocean Engineering
Luke Talbot
 Mechanical Engineering
SWaT: Safe Whale Tag
 Adviser: May-Win Thein

Jessie Burgoyne
Danielle Slater
 Marine, Estuarine and Freshwater Biology
Adam Hookway
 Mechanical Engineering
Utilizing Biosensors to Monitor Gaping Behavior of Crassostrea virginica (Eastern Oysters)
 Advisers: Selina Cheng, Cam Ragland, Easton White

Zhafirah Candra**Ayla Magdalena**

Environmental Engineering

Caroline Carella

Communication

Dylan Emerson**Dylan MacLeod**

Electrical Engineering

Miller Marcille**Sarah Souliere**

Mechanical Engineering

Vincent Silva**Avery VanHendrick**

Computer Engineering

Marine Energy Collegiate Competition

Advisers: Erin Bell, Arezoo Hasankhani,

Julie Paprocki

Josephine Crotty**David Denslow**

Mechanical Engineering

Victor Kapostas

Ocean Engineering

Nicholas Pratte**Haley Stewart**

Computer Science

*ORCA: Operation Robot for**Control and Autonomy*

Adviser: May-Win Thein

Brady Goodwin**Turner Totten**

Computer Science

Alex Oh

Mechanical Engineering

Jonah Stevens

Ocean Engineering

*Marine and Naval Technological**Advancements for Robotic Autonomy**(MANTA RAY): Ghost Unpiloted**Performance Platform Submersible**(GUPPS)*

Adviser: May-Win Thein

Finnegan Hayes

Environmental Sciences

Lauren Milligan

Ocean Engineering

Bennett Murphy**Eliza Shepherd****Izze Titus**

Mechanical Engineering

*Algae Research for Filtration and**Energy Capabilities*

Adviser: Felix Devito

Ben Hogan**Zachary Yeaton**

Mechanical Engineering

Jake Overstreet**Gabriel Pointer**

Ocean Engineering

Zachary Smith

Environmental Sciences

Kiara Summers**Michael Sutt**

Biology

Mobile Mussel Raft

Advisers: David Fredriksson,

Igor Tsukrov

Physics**Group Leader: Ningyu Liu****Dan Albu**

Physics

*Asymptotic Methods of Angular**Quantization in Free Boson CFT*

Adviser: Nicholas Agia

Joseph Arena

Physics

*Low-Resolution Spectroscopic Analysis of**Transient and Steady-State Astronomical**Objects for Elemental and Stellar**Classification*

Adviser: John Gianforte

Abigail Barto

Physics

*Machine Learning the Calabi-Yau Metric**in the Large Complex Structure Limit*

Adviser: Per Berglund

Matthew Breton

Physics

*Designing the TMD-SIDIS Experiment:**Simulation-Driven Detector Optimization*

Adviser: Nathaly Santiesteban

Torsten Diesel

Physics

*Wave-Induced Current Drive in Magnetic**Confinement Fusion*

Adviser: Benjamin Chandran

Anna Geho

Engineering Physics

*Computing Ricci-Flat Metrics for Highly**Deformed Calabi-Yau Manifolds*

Adviser: Per Berglund

Samuel Geho

Engineering Physics

*Large Language Models and the**Construction of New Calabi-Yau Manifolds*

Adviser: Per Berglund

Paul Jean

Physics

*Boundary Conditions for the 2D Free**Boson CFT in the Angular Quantization**Scheme with an Arbitrary Metric*

Adviser: Nicholas Agia

Evan Menard

Mathematics, Physics

*Finding Nonperturbative Energy**Corrections in Quantum Mechanics Due to**Instantons*

Adviser: Nicholas Agia

Eben Quenneville

Engineering Physics

*Scalable Computational Pipelines for**Lepidoptera Phylogenomics*

Adviser: Per Berglund

Physics — Engineering**Group Leader: Ningyu Liu****Alexandra Antar**

Engineering Physics, Sustainability

*Designing a Target Insert: The Heart of a**Dynamic Nuclear Polarization System*

Adviser: Nathaly Santiesteban

Joshua D'Addario

Engineering Physics

*FLASH: Field-Deployable Lightning**Analysis System Using High-Speed RF*

Adviser: Ningyu Liu

Hunter Eschallier

Engineering Physics

Modular Vision System Fixture

Adviser: Juan Carlos Cuevas Bautista

Nicholas Kafkoulas

Engineering Physics

*Alignment Monitoring System for the**Hard X-Ray Balloon-Borne Telescope**SuperHERO*

Adviser: Fabian Kislal

Skye Martichuski

Physics

Fabricating Nanostructured Gold Substrates for Engineering Strain in 2D Materials

Adviser: Shawna Hollen

Alec Mercer

Engineering Physics, Sustainability

Development of the Thermospheric Winds Imager

Adviser: James Clemmons

Devin Phyllides

Physics

3UCubed Instrument Calibration and Data Analysis

Adviser: Noe Lugaz

Jackson Scheele

Engineering Physics

On the Design and Flight Qualification of Thermo5D for High-Resolution, Multidimensional Wind Measurements in the Thermosphere

Adviser: James Clemmons

Jake Volovar

Engineering Physics

Detecting Transient Lightning Electric Field with a Mini-Whip Antenna System

Adviser: Ningyu Liu

Michael Wentzel

Engineering Physics

Improving Accuracy of Scattering Predictions with Machine Learning

Adviser: Per Berglund

The Naked Arts— Creativity Exposed! (Act I)

Wednesday, April 22**12–2:45 p.m.****Paul Creative Arts Center,
Gallery 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.

Josephine Bidoli

Art: Studio Art

Exquisite Corpse

Adviser: Benjamin Cariens

Bree Boyington

Fine Arts, Sociology

These First Steps: What Makes the Beginning of a Graphic Novel

Adviser: Benjamin Cariens

Abigail Brice

Fine Arts

Branching Out and Letting Go

Adviser: Benjamin Cariens

Savannah Couture

Art: Studio Art

Fractals of Expansion

Adviser: Benjamin Cariens

Grace Coverdale

Art: Studio Art

Uncertain: The Space between Confidence and Doubt

Adviser: Benjamin Cariens

Emily Kaiser

Music Education

Forgotten Dreams: The Lost Dream Ballet of West Side Story

Adviser: Rose Pruiksma

Jordan Klein

Art: Studio Art, Fine Arts

Yad b'Yad: Material Memory of Common Forms

Adviser: Benjamin Cariens

Madeline Marshall

Fine Arts

Obstructions: Fragments of Being

Adviser: Benjamin Cariens

Luke Murray

Fine Arts

Creation in Depth

Adviser: Benjamin Cariens

Marisa Norcia

Art: Studio Art, Fine Arts

Fragmented: A Conversation between the Past and Present Self

Adviser: Benjamin Cariens

Amy Sinibaldi

Fine Arts

When Pigment Becomes Perception

Adviser: Benjamin Cariens

UNH Manchester Undergraduate Research Conference

Poster Presentations

Wednesday, April 22**4–6 p.m.**

**88 Commercial St.,
MPR Room 201 and
Student Commons, 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.

Asma Abderrahim

Biotechnology

Effects of Knocking Down FOXN2 Using sdASOs on Cilia-Related Gene Expression

Adviser: Kristen Johnson

Vamsi Sandilya Adipudi**Quang Hoang****Alvin Lin****Ruchitha Reddy Mile**

Computer Science

UNH Campus RideShare: Connecting Durham and Manchester Commuters by Team AFIVE

Adviser: Karen Jin

Indrani Adivi**Christian Laferriere****Sai Rakesh Perambudur****Matti Shapiro**

Computer Science

UNH Campus RideShare: Connecting Durham and Manchester Commuters by Team RISC4

Adviser: Karen Jin

Safyah Ahmed**Rachel Hatfield**

Biological Sciences

Meryem Bilgic**Ekantika Kumaran**

Biotechnology

The Isolation and Purification of Bacteriophage Snuffy Infecting Arthrobacter globiformis NRRL B-2979

Adviser: Kyle MacLea

Isaac Allan**Francisca Mato**

Computer Science

Exploring UNH Sustainability Efforts with Full Stack Development

Adviser: Mihaela Sabin

Isaac Allan**Mason Armand****Elvir Cikaric****Caleb Hazelton****Quang Hoang****Christian Laferriere****Matti Shapiro**

Computer Science

UNH Manchester Computing Capstone: A Group Research Project in Automatic Speech Recognition

Adviser: Michael Jonas

Majed Almustafa-Shelly

Neuropsychology

Byron Dupuis

Biotechnology

*Optimizing an Interpenetrating Network**Hydrogel Culture Model for Studying**Reactive Astrocytes*

Adviser: Mark Scimone

Srujan Reddy Anugu**Swathi Danturi****Harsha Vardhan Kandula****Samhitha Vasamsetty****Nalin Yetukuri**

Computer Science

NECHE Syllabus Compliance Assistant

Adviser: Karen Jin

Dennise Arceno**Mason Armand**

Computer Science

*Carbon Commute Calculator: A Full Stack**Web Application for Sustainable Travel*

Adviser: Mihaela Sabin

Kimberley Ayen

Biological Sciences

Ava Graves**Blest Kampayana**

Biotechnology

*The Isolation and Purification of**Bacteriophage Arinoe Infecting**Arthrobacter globiformis NRRL B-2979*

Adviser: Kyle MacLea

Sylvia Baffour Awuah

Biotechnology

Maria Soja Venceslau

Biotechnology, Neuropsychology

*Extracellular Matrix Ligand Effects on**PC12 Differentiation and Motility*

Adviser: Mark Scimone

Claire Bartley

Biotechnology

*Genomic Characterization of FOXN2 and**Its Associated Transcriptional Effects in**Pancreatic Ductal Adenocarcinoma*

Adviser: Kristen Johnson

Dylan Bellerose

Biotechnology

Data Analytics Certification Process

Adviser: Suzanne Cooke

Luis Berrios Charris

Communication Arts

An Investigation of Resonance: Checking into The White Lotus

Adviser: Jeffrey Klenotic

Ava Blomquist

Computer Science

Oliver Mularien

Computer Information Systems

AgriTrend: See the Trend, Grow Smarter with Full Stack Development

Adviser: Mihaela Sabin

Nishitha Prakashini Boddeti

Biotechnology

*pcDNA3-mRFP Plasmid Production,**Isolation, and Characterization*

Adviser: Won Hyuk Suh

Reese Bove**Juju Carbone****Diego Duarte****August Paquin**

Biotechnology

Kathryn Sindoni

Biological Sciences

*The Isolation and Purification of**Bacteriophage DorianGray Infecting**Arthrobacter globiformis NRRL B-2979*

Adviser: Kyle MacLea

Cynthia Brogan

Biotechnology

How Science Fiction Affects Scientists

Advisers: Suzanne Cooke,

Susanne Paterson

Dara Brown**Jaahnavi Chukkala****Caitlyn Santana Corcino**

Biotechnology

*Culturing Human Neural Stem Cells in**Different Media Formulations*

Adviser: Won Hyuk Suh

Dara Brown**Charlie Canazaro**

Biotechnology

*Transfection Performed in 2D vs. 3D**Culture Conditions*

Adviser: Won Hyuk Suh

Charlie Canazaro**Brilia Foo****Caroline Heafield****Shahd Mohamed****Abby Paquette****Ava Sanders****Tvisha Reddy Solipuram**

Biotechnology

Evaluating the Effects of Various Compounds on Adipogenesis in 3T3-L1 Cells - Cell Culture Projects (LM2)

Adviser: Kristen Johnson

Jaahnavi Chukkala**Raja Gaddam**

Biotechnology

Characterization of RNAs from Bioprinted Neurospheres

Adviser: Won Hyuk Suh

Jaahnavi Chukkala**Layne Cilley****Jasen Cusson****Sree Nayana Kagana****Jenna Pelletier**

Biotechnology

Effects of Various Compounds on 3T3-L1 Adipogenesis - Cell Culture Projects (LM1)

Adviser: Mark Scimone

Elvir Cikaric**Aziz Mohammed**

Computer Science

Exploring with NomadAir

Adviser: Mihaela Sabin

Laura Davenport

Psychology

"I'm Here to Help": The Influence of Compassion on Mental Health Career Choice

Adviser: Nicholas Mian

Cindy Encarnacion

Psychology

Early Childhood Mental Health Awareness

Adviser: Nicholas Mian

Brilia Foo

Biotechnology

Investigating the Role of FOXN2 in 3T3-L1 Adipogenesis

Adviser: Kristen Johnson

Sansia Furtado

Biotechnology

Encapsulation of pcDNA3-EGFP Plasmid in Microspheres

Adviser: Won Hyuk Suh

Raja Gaddam

Biotechnology

Functional Investigation of CEP290 in Ciliary Signaling and Adipocyte Differentiation Using Planaria and 3T3-L1 Systems

Adviser: Kristen Johnson

Caroline Heafield

Biotechnology

Expanding a Tiny Earth: Isolating Antibiotic Compounds from Fungi

Adviser: Suzanne Cooke

John Horangic

Biotechnology

Cooperative Education Experience at Adimab

Advisers: Suzanne Cooke, Kyle MacLea

John Horangic**Sree Nayana Kagana**

Biotechnology

Electroporation vs. Lipofection

Adviser: Won Hyuk Suh

Adam Houtenville

Computer Science

Python Sensor Driver for a Time-of-Flight Laser Sensor (VL53L0X)

Adviser: Mihaela Sabin

Collin Humphreys

Biotechnology

Optimizing an Immunofluorescent Staining Protocol for Visualization of Nudibranch Spicule Nerve Innervation

Adviser: Mark Scimone

Ninu Jacob

Biotechnology

IHC vs. IF for Detecting GFAP in a Rat Model of FASD

Adviser: Mark Scimone

Bhargavi Kale**Isabella Velazquez-Abelardo**

Computer Information Systems

Carbon Commute Calculator

Adviser: Mihaela Sabin

Trinity Minard**Andres Monsalve**

Biotechnology

3D Bioprinting, Differentiation, and Characterization of iPSCs and hNSCs in GelMA and Matrigel Bioprints

Adviser: Won Hyuk Suh

Shahd Mohamed**Ava Sanders**

Biotechnology

Phenotypic Characterization of Mycobacterium Phage Hoot Genes

Adviser: Kristen Johnson

Andres Monsalve

Biotechnology

Comparative Analysis of Induced vs. Spontaneous Differentiation of Neural Stem Cell Bioprints

Adviser: Won Hyuk Suh

Andres Monsalve**Caitlyn Santana Corcino**

Biotechnology

Comparison Study between Lipofection and Polyfection

Adviser: Won Hyuk Suh

Anya Munholand

Biotechnology

Isolation and Genomic Characterization of Novel Serratia Bacteriophage Northmill

Adviser: Kyle MacLea

Kendal Orija

Neuropsychology

The Effects of TBI on Emotional Processing and Regulation in Veterans: The Adverse Impacts on Identification of Symptoms of PTSD and Depression

Adviser: Mark Scimone

Mavya Padamati

Biotechnology

pcDNA3-EGFP Plasmid Production, Isolation, Enzyme Treatment, and Characterization

Adviser: Won Hyuk Suh

Tre Randolph

Psychology

Childhood Trauma and Its Effect on Development

Adviser: Nicholas Mian

Sofia Renna

Biological Sciences

Studying the Effects of Salinity Percentage in Media on Antibiotic Production in Oceanic Bacteria

Adviser: Suzanne Cooke

Charan Balajee Salari

Biotechnology
*Production and Molecular Analysis of
 pcDNA3-mRFP*
 Adviser: Won Hyuk Suh

Christopher Salgado

Biological Sciences
*Connecting Nature-Based Solutions,
 Mental Health, and Disease Prevention*
 Adviser: Semra Aytur

Tvisha Reddy Solipuram

Chaim Tendler
 Biotechnology
*3D Microenvironment Cultured Brain
 Cancer Cells*
 Adviser: Won Hyuk Suh

Tvisha Reddy Solipuram

Chaim Tendler
 Biotechnology
*Bioprinting with LN-229 Glioblastoma
 Cancer Cells*
 Adviser: Won Hyuk Suh

Andrew Stanley

Biotechnology
*Isolation and Purification of Oral
 Bacteriophages*
 Adviser: Kyle MacLea

Madison Wheeler

Neuropsychology
*SPSS vs. R: Evaluating Statistical Software
 for Research Applications*
 Advisers: Nicholas Mian, John Sparrow

UNH Manchester URC Cinema Arts Day

**Thursday, April 23
 9 a.m.–12 p.m.
 88 Commercial St.,
 Screening Room 456, Manchester**

The UNHM Communication Arts program has a production track in which students complete introductory and advanced coursework 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.

Landon Carbone

Communication Arts
*(Sound Redesign) Enjin Debut Scene
 from Gachiakuta*
 Adviser: Jean-Paul DiSciscio

Landon Carbone

Communication Arts
A Look Into: The Cinema Club
 Adviser: Jean-Paul DiSciscio

Daniel Enright

Ben Marotta
 Communication Arts
Hey! That's My Hat!
 Adviser: Jean-Paul DiSciscio

Jackson Pollaro

Communication Arts
*The Intentional Cut: Exploring the Earliest
 Links between Editing and Audience*
 Adviser: Jeffrey Klenotic

Michael Roy

Communication Arts
*Through Film and Storytelling: Creativity,
 the Soul of Expression*
 Adviser: Jean-Paul DiSciscio

Owen Stuart

Communication Arts
The Ragebait
 Adviser: Jean-Paul DiSciscio

The Naked Arts— Creativity Exposed!

Act II

**Thursday, April 23
 12:40–2:45 p.m.
 Paul Creative Arts Center,
 Gallery 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.

Lilly Cassely

English
Soap Dish Glitter
 Adviser: David Blair

Liah Dominguez

Theatre
*Wrong Time, Wrong Place: The
 Uncomfortable Conversation of White
 Supremacy in American Theater*
 Adviser: Szu-Feng Chen

Sonya Endrizzi

Art: Studio Art
Balance in Chaos
 Adviser: Benjamin Cariens

Evelyn Finucan

English
Beaten
 Adviser: Thomas Payne

Fiona Fitzpatrick

Fine Arts, Theatre
Ritual
 Adviser: Assaf Benchetrit

Julia Hartin

Fine Arts
Frame by Frame: Gelatinous Trails
 Adviser: Benjamin Cariens

Kanan Kalke

Fine Arts

Carnal Gesture: The “Otherness” and “Creatureness” of the Female Form

Adviser: Benjamin Cariens

Emory Stevens

Linguistics, Spanish

Exploring Poetry

Adviser: David Blair

UNH Manchester URC Engineering Technology Senior Capstone Robotics Presentations

Senior Project Presentations

Friday, April 24

9 a.m.–1 p.m.

**88 Commercial St.,
MPR Room 201, 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.

Gregory Christensen

Trever Huuskonen

Andrew Mullin

Mechanical Engineering Technology

Jackson Dever

Electrical Engineering Technology

UNHM2

Advisers: Robert Arredondo,

Takahide Ohkami

James Clow

Justin Merritt

Justin O’Rourke

Mechanical Engineering Technology

Jeffrey Lanouette

Electrical Engineering Technology

UNHM1

Advisers: Robert Arredondo,

Takahide Ohkami

Nicholas Hall

AJ Pelczar

Dylan Sheehy

Mechanical Engineering Technology

Nicholas Silvia

Electrical Engineering Technology

UNHM4

Advisers: Robert Arredondo,

Takahide Ohkami

Erik Hanser

Abdullah Idan

Cole Murray

Mechanical Engineering Technology

Gregory Kindrat

Electrical Engineering Technology

UNHM3

Advisers: Robert Arredondo,

Takahide Ohkami

Patrick Herman

Mechanical Engineering Technology

UNHM5

Adviser: Robert Arredondo

All Colleges Undergraduate Research Symposium

Welcome Breakfast

Friday, April 24

9–9:30 a.m.

**Memorial Union Building,
Granite State Room**

This informal gathering gives students, faculty, and attendees an opportunity to visit with each other before experiencing the large university-wide event that follows: the All Colleges Undergraduate Research Symposium.

All Colleges Undergraduate Research Symposium

Oral Presentations, Session A

Friday, April 24

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.

**Memorial Union Building,
Room 338**

Ann Manchester Kelley Nursing Scholars

Moderator: Joan Lucca

Sadie Caddell

Nursing

Enhancing Nursing Education to Improve

Care for Pregnant Women Experiencing

Substance Use Disorders

Adviser: Amy McGreevy

Matthew Harry

Nursing

A Systematic Review and Meta-Analysis of

Ethical Considerations for Hospice Patients

in Inpatient Settings

Adviser: Alyssa O’Brien

Lindsey Hildreth

Nursing

Mindfulness Matters: Reducing Anxiety

in Prelicensure Undergraduate Nursing

Students Using Virtual Reality Meditation

Adviser: Anne Meginniss

Luke Ricci

Nursing

Improving Low Fresh Gas Flow Adherence to Lower CO₂e Emissions

Adviser: Alyssa O'Brien

Claire Roy

Nursing

Bias in Nursing Students: How Student Exposure Impacts Patient Experience

Adviser: Alyssa O'Brien

Sarah Toomey

Nursing

From Pixels to Pines: Exploring the Impact of Authentic vs. Virtual Greenspace on Young Adults' Psychophysiological Well-Being

Adviser: Gibran Mancus

**Memorial Union Building,
Room 336****Comm-entary: Published Papers
in Communication****Moderator and Adviser:
Michael Jackson****Rebecca Insley**

English Teaching, Music

Ruby Prentiss

Communication, History

*A Public Relations Analysis: Examinations of Setting on Organization Perception***Ava Lannery**

Communication

*Conventions of Photography as Means of Social and Technological Critiques***Abigail Leonard**

Communication

*A Communication Analysis: Gendered Media Coverage of Women's Sports***Max Thomas**Business Administration, Communication,
Political Science*Picturing North Korea***Sophia Titone**

English

Language Deprivation in Deaf Children

**Memorial Union Building,
Room 330****Multidisciplinary Session I****Moderator: Liz Fowler****Dylan Bradsher-Behra**Sport Management and Leadership,
Statistics*Evaluating NBA Defense with Matchup Data: Defensive Δ*

Adviser: Peter Zaimas

Avalaine DriesEcogastronomy, Nutrition
*Highlighting Farm to Early Care and Education Gardening Programs in New Hampshire*Advisers: Nicole French-Wollen,
Nooreem Mena**Shay Gillis**International Affairs, Political Science
International Agreement in the Area of Lethal Autonomous Weapons Systems

Adviser: Alynna Lyon

Jane SchintziusAnthropology, Health Management
and Policy*Wild about Public Health*

Adviser: Semra Aytur

Sydney Staples

Psychology

Associations between Parental Mental Health, Parent Emotion Regulation Strategies, and Sensitive Parental Caregiving Behaviors

Adviser: Jill Trumbell

**Memorial Union Building,
Room 332****Multidisciplinary Session II****Moderator: Andrew Ferris****Olivia Boyan**

Zoology

New Hampshire Shellfish under Pressure: Physiological Effects of Climate Change and Toxic Algal Blooms

Adviser: Brittany Jellison

Evan Christensen

Genetics

Phylogenomics and Time-Calibrated Analyses of Cyclostome Divergence, Diversity, and Biogeography

Adviser: David Plachetzki

BrookLynn Schmuke

Zoology

From Pompeii to Present Day: The Rich History of Service Dogs

Adviser: Jessica Lepler

Olivia Tatro

Biology

*Gene Gain and Loss Inform the Evolution of Cnidocytes and Lineage-Specific Traits in Cnidaria*Advisers: Sabrina Pankey,
David Plachetzki**Lucia Wondal**Environmental Conservation and
Sustainability*Public Acceptance of Climate Change Policies across Diverse Populations*Advisers: Constantine Spandagos,
Catherine Taylor

**Memorial Union Building,
Room 334****Politics and Policy in a
Warming World****Moderator: Matthew Stern****Adviser: Jeannie Sowers****Beni Griffin**

Political Science

*Turning Red Tape into Caution Tape: The Impacts of Cost Cutting within FEMA***Sam McGrath**

Music

*How the Pacific Islands Shape Global Climate Politics***Jackson Odom**

Political Science

Think Tanks and Climate Denial: The Unseen Forces Controlling the Narrative

Felix Prigge

Political Science

How Vermont's Composting Laws Can Be Used to Inform Similar Policies in New Hampshire

Gwen Zeger

Political Science

Lyme Disease and Babesiosis in Relation to Climate Change

Adviser: Jeannie Sowers

All Colleges Undergraduate Research Symposium

Poster Presentations, Session A

Friday, April 24**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.

Sabrina Alan**Josh Lopresti**

Justice Studies, Political Science

Hayden Anderson

Psychology

Susan Bernard

Justice Studies, Sociology

Perceptions of Safety with the Presence of ICE in Vermont and New Hampshire

Adviser: Andrew Smith

Anna Anderson

Justice Studies, Political Science

Do Animals Have Legal Standing?

Adviser: Susan Siggelakis

Niranjana Thangam Archunaraj**Indhumathy**

Neuroscience and Behavior

Alexandra Billgert**Ellie Brisland****Tess Reid****Kristina Tolarova**

Psychology

Intolerance of Uncertainty Predicts Physiological Responses to Experiential Uncertainty

Adviser: Jolie Wormwood

Moise Azuma

French, Homeland Security, International Affairs

Role of Education in Presidential Vote Preference

Adviser: Dante Scala

Greta Baker**Isabella Cannon**

Psychology

Confidence in Emotion Perception between Close Friends and Strangers

Adviser: Jolie Wormwood

Maxwell Beauchesne**Sarah Guerrette****Parker Holt****Cameron Jacobs****Nazilynn Lacey****Kylie Martone****Nicole Skare**

Exercise Science

Effects of Exercise Prescription Prompts on Physiological, Perceptual, and Accelerometer-Derived Measures of Walking Intensity in Untrained Young Adults

Adviser: Michael Brian

Christian Brooks

Health Sciences

Exploring ADHD Treatment Options

Adviser: Molly Campbell

Katie Brower**Makenna Doucette****Braedon Flanagan**

Sport Management and Leadership

Audrey Buckley

Business Administration: Management

Parker Taylor

Kinesiology

A Comparison of Demographic Profiles of Casual and Serious Football Participants in the United States

Advisers: Wonjun Choi, Sophia Min

Kelly Brown

Exercise Science

The Role of Physical Activity and Added Sugar on Maximal Fat Oxidation during Graded Exercise

Adviser: Michael Brian

Grace Burnett

Psychology, Spanish

Samantha Emr

Psychology

Emma Grniet

Neuroscience and Behavior, Psychology

Relating Social Anxiety and Situational Self-Awareness across Different Conditions

Adviser: Jolie Wormwood

Mallorie Carvalho

Biomedical Science

Julia Melanson

Anthropology, Psychology

Brady Proctor

Anthropology

Ainsley Rennie

Anthropology, Justice Studies

Building an Experimental Human Decomposition Scent Detection Library for K-9 Search and Recovery Training in New England

Adviser: Amy Michael

Aulia Castellano

Human Development and Family Studies

If You Don't Feel Safe, It's Going to Last 15 Minutes, Not 25 Years: A Qualitative Exploration of Safety in Romantic Relationships

Adviser: Tyler Jamison

Katelyn Cervini

Alice Fortin

Leah Frantz

Gabrielle Gronda

Jenna Hamelin

Abby Heath

Exercise Science

Determining If the Hexoskin Can Be Used to Measure Heart Rate Variability in Exercise Prompts

Adviser: Michael Brian

Sage Coellner

Exercise Science

Effects of Proprioceptive Neuromuscular Facilitation on Muscular Force Production

Adviser: Summer Cook

Peyton Collins

Nutrition

Does Gender Have an Effect on Political Polarization?

Adviser: Dante Scala

Vivianna Cosgrove

Zoology

Aphanogmus dorsalis, a Ceraphronid with Unique Mesoscutellar Morphology (Hymenoptera: Ceraphronidae)

Adviser: Istvan Miko

Owen Daigle

Exercise Science

Evaluation of Non-Local Muscle Fatigue in Males and Females

Adviser: Summer Cook

Erin Daly

Gigi Perry

Psychology

Perception of Naturalistic Emotion Expressions: The Role of Friendship Length

Advisers: Kaitlyn McMullen,

Jolie Wormwood

Anthony Dempsey

Nutrition

Low Energy Availability and Its Relationship to Nutritional Status and Bone Health in Collegiate Athletes

Adviser: Jesse Stabile Morrell

Joshua Dorfman

Business Administration: Finance

Samantha Freeman

Charlotte Pare

Jaryd dos Anjos

Sport Management and Leadership

Julian Roach

Information Systems and Business Analytics

Who Watches What? Demographic Profiles of TV Sport Audiences

Advisers: Wonjun Choi, Sophia Min

Tianyi Duan

Biology

Examining Time-Dependent Thermal Tolerance across Mollusks and Crustaceans from Great Bay, NH

Advisers: Drew Villeneuve, Easton White

Lyv Dubois

Biochemistry, Molecular and Cellular Biology

Investigating the Invasion Efficiency of Toxoplasma gondii Parasites with an AP2X-VII Knockout

Adviser: Vicki Jeffers

Aidan Dun

Zoe Hannuksela

Kyle Mittelman

Psychology

Gender Differences in Emotion Perception between Close Friends

Advisers: Kaitlyn McMullen,

Jolie Wormwood

Emmie Duval

Biomedical Science, Philosophy

The Ethics of Biofabrication: The Case of New Hampshire's ARMI

Adviser: Nicholas Smith

Marlo Frank

Psychology

Avery Scire

Biology

Comparison of Optic Flow Motion Mask in Motion-Induced Blindness to Random and Coherent Motion Masks

Advisers: Joseph LaBarre, William Stine

Jade Gagnon

Health Sciences

Online Communication Practices for AI in Health Care

Adviser: Molly Campbell

Bobby Gilbert

Homeland Security

Crime Spending in America: Too Much, Too Little, or Just Right?

Adviser: Dante Scala

Jake Gizzi

Environmental Sciences

Investigations into Methane and Carbon Dioxide Gas Exchange at the Robert Findlay Wildlife Reserve at Pūkoro, New Zealand

Adviser: Serita Frey

Cadyn Golisano

Social Work

Assessing the Effectiveness of Housing First for Transitional-Aged Youth Experiencing Homelessness: A Systematized Review

Adviser: Gretchen Bean

Finn Graff

Biology

Comparing Gray Seal (Halichoerus grypus) Call Duration at Three Sites in the Northwest Atlantic

Advisers: Michelle Fournet, Jessica Veo

Marley Graham

Political Science

Ava Lamothe

American Sign Language (ASL)/English Interpreting, Psychology

Redefining War: How Corporate Interference Has Impacted War

Adviser: Jen Spindel

Camdon Grandmaison

Homeland Security

The Democratic Primary and the Outcome of the 2024 Election

Adviser: Dante Scala

Rowan Grzeszkiewicz-O'Neill

Equine Studies

Role of the Cortical Projections to the Caudate Putamen in Associative Learning with Nicotine in Female Rats

Adviser: Sergios Charntikov

Jenna Hamelin

Exercise Science

Effects of Proprioceptive Neuromuscular Facilitation on Hip and Knee Range of Motion

Adviser: Summer Cook

Ella Hannon

Biology, Marine, Estuarine and
Freshwater Biology

*A Tale of Two Fishes: A Comparison of
Growth and Survival Rates of Wild and Pet
Store/Domesticated Zebrafish*

Adviser: Karolina Kwasek

Braelyn Hilsenbeck

Neuroscience and Behavior

*Listening into Stillness: Auditory Stimuli
for Triggering Relaxation and Awareness
(ASTRA)*

Adviser: Kate Christison-Lagay

Nicki Hyslop

Animal Science

*Effects of Calcium Ionophore and
Thrombin on the Expression of Angiogenic
Factors in Bovine Luteal Cells*

Adviser: Paul Tsang

Jilian Jones

Neuroscience and Behavior

*Negativity Bias: Sequential Effects of
Negative Stimuli on Positive
Valence Ratings*

Adviser: Jolie Wormwood

Margo Kamis

Nutrition

*Evaluating the Healthfulness of the
University of New Hampshire's Food
Environment Using the Healthy Campus
Environmental Audit (HCEA)*

Adviser: Jesse Stabile Morrell

Connor Lincoln

Anthropology

*Poverty and Health: Skeletal Evidence of
Syphilis at Charity Hospital Cemetery #2,
New Orleans, Louisiana (1842-1929)*

Adviser: Alexander Garcia-Putnam

Sophie Lorenscheit

Psychology

*Words of Reality: A Series of Short Stories
Exploring the Emotional and Concrete Effects
of Social Inequality on Ordinary People*

Adviser: Clark Knowles

Olivia Lucia

Marine, Estuarine and Freshwater Biology
*Quantifying Toxin Gene Expression in a
Harmful Algal Bloom Species in Coastal NH*

Adviser: Elizabeth Harvey

Danielle Mack

Community and Environmental Planning,
Wildlife and Conservation Biology

*People's Opinions on Federal Spending on
the Environment*

Adviser: Dante Scala

Alexandra Mahoney

Business Administration: Hospitality
Management, Ecogastronomy

Local Plates, Lasting Connections

Adviser: Nicole French-Wollen

Abbi Maier

Health Sciences

*Rates of Disclosure and Nondisclosure
of Concussion in Men's and Women's
Collegiate Soccer*

Adviser: Trish Kelshaw

Mark Martin

Ecogastronomy, Sustainable Agriculture
and Food Systems

*An Inventory of Current Processing
Capacity in New Hampshire's Food System*

Adviser: Katelyn Porter

Meredith Meats

Neuroscience and Behavior

*How High and Low Variability Affects the
Generalization of Bird Species*

Adviser: Casey Roark

Julia Melanson

Anthropology, Psychology

Emilia Nascimento

Anthropology

Harriet Pearce

Anthropology, Justice Studies

CeCe Robison

Nursing

*A Content Analysis of Serial Homicide and
Mass Murder in Undergraduate Textbooks*

Advisers: Robert Eckstein, Amy Michael

Emily Mezick

Homeland Security, Spanish

*The Role of Nonprofits in Emergency
Management Disaster Preparedness
Strategies*

Adviser: Sara Iman

Madelynn Mitchell

Justice Studies, Political Science

Mariam Nada

Economics, Political Science

*How Can International Law be Mended
to Facilitate Violence, and How Does
"Lawfare" Change the Rules and Framing
of War, and the International Civilian
Response to It?*

Adviser: Jen Spindel

Carter Norton

Exercise Science

*Can Post-Activation Performance
Enhancement (PAPE) Improve Running
Speed and Gait?*

Adviser: Summer Cook

Juliet O'Brienhalla

Anthropology, Art: Art History

*From Gravestones to People: Mortuary
Archaeology and Microhistory at North
Cemetery, Portsmouth, NH (1753-1926)*

Adviser: Alexander Garcia Putnam

Brianna Ohlund

Psychology

*Social Media Addiction, Anxiety, and
Childhood Emotional Abuse: A Scoping
Literature Review*

Adviser: Melinda Morrill

Leandra Pereira

Communication Sciences and Disorders

*Impact of Executive Functioning, Social
Communication, and Self-Determination
on Academic Success in Neurodiverse
College Freshmen*

Adviser: Kathryn Greenslade

Kristen Petagna**Melinda Ricardo**

Psychology

*Learning from Experience: Do People
Adjust Affective Forecasts following
Feedback?*

Adviser: Jolie Wormwood

Kai Poole

International Affairs

*Can Being a Convicted Felon Affect Your
Voting Rights?*

Adviser: Dante Scala

David Popa

Biochemistry, Molecular and Cellular Biology
*Comparison of Gut Microbiota of *Eptesicus fuscus* and *Myotis lucifugus* Populations across New Hampshire*
 Adviser: Ashley Bulseco

James Reda

Analytical Economics
How Strongly Do Voters Feel about the Presidential Candidate They Voted For?
 Adviser: Dante Scala

Cassidy Remillard

Psychology
Bakhtavar Sidhwa
Kaylie Ukstins
 Neuroscience and Behavior
Comparing Response Threshold of Contoured versus Non-Contoured Stereograms
 Advisers: Andrew Kitt, William Stine

Evelyn Rubin

Health Management and Policy
Associations between Living Near Blue Spaces and Common Causes of Mortality
 Adviser: Semra Aytur

Nina Ryan

International Affairs
Identity vs. Affiliation: Does Partisanship Overpower Demographic Drivers of Issue Ownership?
 Adviser: Dante Scala

Rhydian Schaaf

Anthropology, Justice Studies
How We Treat the Unclaimed Dead: Initial Research into Human Remains Laws across the U.S.
 Adviser: Alexander Garcia-Putnam

Kaitlyn Shelley

Biology
Spartina alterniflora in Bio-Restoration Integrated Coastal Substrate (BRICS) Restoring the New England Coastline
 Adviser: Md Sazan Rahman

Elizabeth Shilova

Biochemistry, Molecular and Cellular Biology
Effects of Curcumin and Trichostatin A on Salamander Lens Regeneration
 Adviser: Konstantinos Sousounis

Abigail Smart

International Affairs, Political Science
Realignment in the South China Sea: Filipino-Australian Relations in the Face of Chinese Expansionism and American Isolationism
 Adviser: Jen Spindel

Teagan Smith

Ecogastronomy, Sustainable Agriculture and Food Systems
Diversifying New England Fruit Crops
 Advisers: Nicole French-Wollen, Rebecca Sideman

Oliver Smith

Political Science
Educational Attainment and Support for Government Responsibility for Jobs and the Standard of Living
 Adviser: Dante Scala

Esher Swanson

Marine, Estuarine and Freshwater Biology, Sustainability
Playing with Sea Monkeys: An Examination of the Use of Decapsulated Artemia as a Means of Improving Current Zebrafish Culture Practices
 Adviser: Karolina Kwasek

Gakuto Takahashi

Political Science
An Analysis of the Correlation between Voter Registration and Socio-Demographic Characteristics via ANES
 Adviser: Dante Scala

Dylan Towne

Addy Young
 Sport Management and Leadership
Increasing Casual Fan Engagement through Social Media Marketing: An NFL Case Study
 Advisers: Wonjun Choi, Sophia Min

Sara Trudu

Linguistics, Psychology
Incidental Category Learning of Mandarin Tone Speech Categories
 Adviser: Casey Roark

Caitlin Valerian

Biomedical Science
Microplastics Induce Inflammation in Human Cells
 Adviser: Sherine Elsaawa

Geni Whipple

Biomedical Science
Identifying Novel Orthomyxoviridae: Wellfleet Bay Virus via RT-PCR in Common Eiders
 Advisers: Muriel Kelly, David Needle

Susanna Zahn

Psychology
Psychological Stress Responses, Resilience, and Heart Health
 Adviser: Semra Aytur

All Colleges Undergraduate Research Symposium

Oral Presentations, Session B

Friday, April 24
10:50 a.m.–12 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.

Memorial Union Building,
Room 338

Gender and Memory: Research from Classics, Humanities, and Italian Studies

Moderator: R. Scott Smith

Tyler Abrantes

Classics
Togas and Tiaras: Male Femininity in Ancient Rome
 Adviser: Susan Curry

Tyler Mason

Classics, Philosophy
How to Die: The Phenomenology of Ancient Books of the Dead
 Adviser: Susan Curry

Georgina Ramadanovic
Classics, Linguistics
*Hittite in Contact: Examining a
Tri-Literate Scribal Tradition*
Advisers: Rachel Burdin,
Gregory McMahon

Jillienne Robinson-Warren
Classics
Roman Women on the Move
Adviser: R. Scott Smith

Elice Sodders
Communication Sciences and Disorders,
Linguistics
The Fool of the World and His Flight
Adviser: Ann Zimo

David Wilson
Classics
*Athena as the Answer to Zeus'
Succession Problem*
Adviser: Paul Robertson

**Memorial Union Building,
Room 334**

**International Affairs: Political
Economy and Public Policy**

Moderator: Betsy Carter
Adviser: Jeannie Sowers

Mo Bah
International Affairs
*Oil and Influence: How Foreign Control
of Nigeria's Oil Industry Shaped Political
Corruption*

Luca Bruno
International Affairs
*Backsliding and Bargaining: Explaining
Trends in European Union Aid to Tunisia*

Albert Candra
Economics, International Affairs
*The Kafala System: How the Kafala
System Shapes the Living and Working
Conditions of Indonesian Migrant Workers
in Saudi Arabia*

Yevgenia Men
International Affairs
*The Effects of China's Green Initiatives on
the Global Energy Market*

Nina Ryan
International Affairs
*The Cost of Capital: A Comparative
Analysis of Economic Resilience in Sinaloa
and Jalisco*

Luke Stam
International Affairs
*Three-Way Chip Trade: How U.S.
Dependency on Taiwan for Microchips
Affects U.S.-Chinese Relations*

Bee Towle
International Affairs
*Comparing and Contrasting ICE's
Approach in Maine versus Minneapolis*

**Memorial Union Building,
Room 340**

**International Affairs:
War and Peace**

Moderator: Smita Lahiri
Adviser: Jeannie Sowers

Paige Barlow
International Affairs
*Western Sanctions and the Strengthening
of Alternative Authoritarian Networks*

Dylan Collins
International Affairs
*Austria's Foreign Policy Strategy:
Balancing Economic Development and
Security Risks in an Unstable Geopolitical
Environment*

Emily Lanoue
International Affairs
*The New Arms Race: Lethal Autonomous
Weapons Systems*

Molly Mikkonen
Analytical Economics, International Affairs
*Sanctions in Iran: How Have Foreign
Sanctions Impacted Regime Power?*

Jackson Milbert
International Affairs
Putin's Disinformation in the Ukraine War

Abigail Smart
International Affairs, Political Science
*Gender Policy in Transition: The Impact of
U.S. Retrenchment at the United Nations*

Matt Wosky
International Affairs
Nuclear Deterrence in the Asia-Pacific

**Memorial Union Building,
Room 330**

Multidisciplinary Session III

Moderator: Kate Gaudet

Ari Adair
Theatre
*Theatre as Play: Performance Arts and the
Social and Emotional Development
of Children*
Adviser: Sean McLaughlin

Hannah Burton
Anthropology
*U.S. College Men and Fatherhood:
Reproductive Identity and Prospective
Imagination*
Adviser: Svetlana Peshkova

Jayden Cruz
Social Work
*Pressing Play for Latina Women in
Video Games*
Adviser: Sherri Simmons-Horton

Taylor Mandile
Social Work
*College Students' Political Media Hesitancy
and Avoidance*
Adviser: Bruce Pfeiffer

Brady Rice
Linguistics
*Who's the Boss? Investigating Authority
Perceptions of Contours of <okay>
in English*
Adviser: Rachel Burdin

**Memorial Union Building,
Room 332**
Multidisciplinary Session IV
Moderator: Md Sazan Rahman
Lyv Dubois

 Biochemistry, Molecular and
Cellular Biology

*Investigating the Invasion Efficiency of
Toxoplasma gondii Parasites with an
AP2X-VII Knockout*

Adviser: Vicki Jeffers

Sarah Hewitt

 Community and Environmental Planning
Performing Competence, Acquiring
*Authority: How Simulated AI Expertise
Generates Trust That Crosses Domains*

Adviser: Ryan Gibson

Sophie Knickerbocker

 Ecogastronomy, Theatre
Knickerbocker Cookies: Social
Sustainability in an Unsustainable System

Advisers: Bryan Bessette,

Nicole French-Wollen

Olivia Lucia

 Marine, Estuarine and Freshwater Biology
Quantifying Toxin Gene Expression in a
*Harmful Algal Bloom Species in
Coastal NH*

Adviser: Elizabeth Harvey

**Memorial Union Building,
Room 336**
Top Papers in Communication
Moderator: Zoe Dawson
Bailey Fraser

Communication

*Taboo and Innuendos: A Conversational
Analysis of Dirty Jokes*

Adviser: Danielle Pillet-Shore

Emily Johnson

Communication

*Do We Even Know What "Even" Does?
A CA Investigation*

Adviser: Edward Reynolds-Paustian

Madeline Riechers

Communication

*How the Word "Fucking" Constructs
Emotional Stance in Conversation*

Adviser: Edward Reynolds-Paustian

Ian Stone

Communication

The Theft of the Swift River Valley

Adviser: Joseph Terry

Sydney Vlach

Communication, English

*Plastic Water Bottles as a Symbol of
Dystopia: Can We Live in a World
without Plastics?*

Adviser: Joseph Terry

All Colleges Undergraduate Research Symposium

Poster Presentations, Session B

Friday, April 24
10:50 a.m.–12 p.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.

Sara Amovic

Neuroscience and Behavior

*The Emotional Impact of Awe on Language
Learning and Memory*

Adviser: Casey Roark

Anna Anderson

Justice Studies, Political Science

Alexandra Billgert

Psychology

Abigail Harris

Justice Studies, Recreation

Management and Policy

Mia Roth
Tarryn Swisher

Justice Studies

Durham PD Survey Results

Adviser: Andrew Smith

Greta Baker
Lexi English

Psychology

Natalie Brown

Music Education

*Thematic Coding of Focus Groups for Know
Your Power® Bystander Intervention Social
Marketing Campaign*

Advisers: Sharyn Potter, Jane Stapleton

John Batts

 Environmental Conservation and
Sustainability

Mia Hankey

Environmental Sciences

*Land-Use Impacts on Stream Health in
the Mangahanene Stream, Waikato,
New Zealand*

Adviser: Wilfred Wollheim

Manda Baumgardt

Biomedical Science

*Association between Food Insecurity and
Cardiovascular Disease: Insights from
BRFSS 2024*

Adviser: Semra Aytur

Meryam Belhassad

Nursing, Women's and Gender Studies

*Knowledge, Attitudes, and Beliefs
Surrounding Maternal Cannabis Use
and Lactation*

 Advisers: Daisy Goodman, Lisa Lamadriz,
Alyssa O'Brien

Katie Bennett

Occupational Therapy

*Exploring the Mental Health Experiences of
Working Mothers: A Qualitative Study*

Adviser: Nikhil Tomar

Sayde Blanchette

Business Administration

Elaina Grenz**Zach Hahn****Ronan Walsh**

Sport Management and Leadership

A Comparison of Demographic Profiles of Casual and Serious Ice Hockey Participants in the United States

Advisers: Wonjun Choi, Sophia Min

Caitlyn Boston

Political Science

Is Voting a Duty or Choice?

Adviser: Dante Scala

Aimee Bousquet

Marine, Estuarine and Freshwater Biology

Parasite Party: Investigating Ecological Drivers of Trematode Parasite Prevalence across the Isles of Shoals

Advisers: April Blakeslee, David Buck, Amy Fowler

Olivia Boyan

Zoology

New Hampshire Shellfish under Pressure: Physiological Effects of Climate Change and Toxic Algal Blooms

Adviser: Brittany Jellison

Morgan Brandl**Jade Gagnon**

Health Sciences

Cognitive-Motor Interference in Neurodegenerative Populations

Adviser: Sanghee Moon

Kelly Brown**Catrina Campbell****Sage Coellner****Noelle Dobe****Amalia Hickey****Izzy Higgins****Abby Stroup**

Exercise Science

Comparing Measurements Recorded by Hexoskin Accelerometers and Thigh Worn Accelerometers during Self-Paced Walking Bouts

Adviser: Michael Brian

Emma Canning**Gakuto Takahashi**

Political Science

Emily Carlson

Ecogastronomy, Political Science

Gavin Thibault

International Affairs

MRI and Conflict: How Magnetic Resonance Imaging Can Work alongside Former Veteran PTSD Patients

Adviser: Jen Spindel

Katelyn Cervini**Alice Fortin****Leah Frantz****Gabrielle Gronda****Jenna Hamelin****Abby Heath**

Exercise Science

Determining If the Hexoskin Can Be Used to Measure Heart Rate Variability in Exercise Prompts

Adviser: Michael Brian

Luke Chambers

Political Science

The Mystery of Mistrusting Media: Exploring Why People Don't Trust the News

Adviser: Dante Scala

Brody Chipman

Exercise Science

Relationship of Leg Muscle Mass and Fatigue in Males and Females

Adviser: Summer Cook

Watson Chodat

Biology

Screening Marine-Derived Bacteria for Molecules with Anti-Cancer Potential Sampled within a U.S. Marine Sanctuary

Advisers: Semra Aytur, John Bucci

Evan Christensen

Genetics

Phylogenomics and Time-Calibrated Analyses of Cyclostome Divergence, Diversity, and Biogeography

Adviser: David Plachetzki

Molly Clickman**Devon Paquette**

Sport Management and Leadership

Drew Dickson

Analytical Economics

Rose Layton

Business Administration: Marketing

Understanding Changes in Sports Gambling Behavior across Major U.S. Professional Sport Leagues

Advisers: Wonjun Choi, Sophia Min

Meghan Conroy

Justice Studies, Psychology

Level of Interest in Political Campaigns and Government

Adviser: Dante Scala

Julia Cotsonas

Neuroscience and Behavior

Trauma Severity, Resilience, and Alcohol Demand: Sequential Associations with Behavioral Economic Indices in College Students

Adviser: Sergios Charntikov

Adam CouttsCommunity and Environmental Planning
Should the Federal Minimum Wage Be Raised?

Adviser: Dante Scala

Eli CroteauEconomics, International Affairs, Spanish
Housing Affordability in Madrid: Examining Tourism, Investment, and Housing Policy

Adviser: Daniel Chavez

Ella Curtis

Neuroscience and Behavior, Psychology

Skyler Murphy**Ally Thoman**

Psychology

Investigating How Overhypotheses Affect Children's and Adults' Question Asking

Adviser: Emily Liquin

Owen Daigle
Tyler Darling
Madison Hugo
Nolan Jasiorkowski
Julia Kelley
Macy Mulkern
Will Ruland
 Exercise Science
Sex Differences in Self-Selected Walking Pace
 Adviser: Michael Brian

Gabe Dearborn
 Nursing
Variables and Their Effects on Presidential Vote Choice
 Adviser: Dante Scala

Caroline Dishaw
 International Affairs, Political Science
When They Decide to Vote: Factors behind Voting Decisions
 Adviser: Dante Scala

Audrey Downs
 Occupational Therapy
Novel Socially Assistive Robot for Alzheimer's and Dementia Home Care: Lived Experiences of Families
 Adviser: Sajay Arthanat

Tavi Effron
 Ecogastronomy, Political Science

Sophie Gold
TJ Labatte
 Political Science
The Impact of Precision Drone Strikes: Comparing and Contrasting the Global War on Terror with Ukraine
 Adviser: Jen Spindel

Mohamed Elsaid
 Biomedical Science
The Role of GLI2 in IL-2 Production in T Cells
 Adviser: Sherine Elsawa

Jojo Enelamah
 Psychology
Exposure to Sexual Material and Mental Health
 Adviser: Kimberly Mitchell

Dylan Estrella
Abbey Lopes
Hannah Smith
 Sport Management and Leadership
Kathryn Reidinger
 Communication
Comparing Sponsorship Influence across Major Sports
 Advisers: Wonjun Choi, Sophia Min

Julia Ferris
 Occupational Therapy
Using Global Positioning-Based Technology to Monitor the Safety of Drivers with Alzheimer's Disease and Related Dementia
 Adviser: Sajay Arthanat

Jake Fortier
 Undeclared
The Bible and Its Effect on Modern Politics
 Adviser: Dante Scala

Marlo Frank
 Psychology
Avery Scire
 Biology
Comparison of Optic Flow Motion Mask in Motion-Induced Blindness to Random and Coherent Motion Masks
 Advisers: Joseph LaBarre, William Stine

Diego Gatti
Seamus Stoker
 Psychology
Emma Klavans
 Communication
Sarah Lapointe
Kira Woog McGinty
 Sport Management and Leadership
Who Follows Sports on X? Demographic Profiles by Sport Category
 Advisers: Wonjun Choi, Sophia Min

Bobby Gilbert
 Homeland Security
Aidan Vitiello
 Political Science
Ben Wolthers
 Homeland Security, International Affairs
Drone Evolution
 Adviser: Jen Spindel

Lily Gordenstein
Sarah Saleem
 Justice Studies, Political Science
Isabella Upton
 International Affairs
Karigen Watson
 International Affairs, Political Science
Nuclear Innovations before and after Hiroshima
 Adviser: Jen Spindel

Finn Graff
 Biology
*Comparing Gray Seal (*Halichoerus grypus*) Call Duration at Three Sites in the Northwest Atlantic*
 Advisers: Michelle Fournet, Jessica Veo

Aidan Hagerty
 Political Science
American Opinions on Political Campaign Spending
 Adviser: Dante Scala

Caroline Hall
 Environmental Conservation and Sustainability, Philosophy
Who Really Knows GMOs? What We Believe, Why We Believe It, and What the Science Says
 Adviser: Richard Smith

Tyler Hamel
 Biomedical Science
Identifying Novel GLI2-Associated Secretory Targets in Waldenström's Macroglobulinemia
 Adviser: Sherine Elsawa

Kara Hatalsky
 Zoology
Morgan Pritchett
 Psychology, Zoology
The Influence of Environmental Factors and Disturbances on Migratory Shorebird Behavior at a High Tide Roosting Site
 Adviser: Janet Anderson

Ty Hetrick
 Occupational Therapy
Embracing Anomalous Perceptions: Sensory Anomalies, Stigma, and Self-Acceptance
 Adviser: Sarah Smith

Aidan Holt

International Affairs
*Perceptions of National Economic Change
 over the Past Year*
 Adviser: Dante Scala

Zachary Hooper

Neuroscience and Behavior
*Insulin-Like Growth Factor 2 mRNA-
 Binding Proteins (IMPs) as a Therapeutic
 Target for Cancer Stem Cells:
 A Pan-Cancer Investigation*
 Adviser: Kate Christison-Lagay

Marley Ireland

Psychology
*Human Relationships Reaching out to AI:
 Personality and Relationship Choice*
 Adviser: John D. Mayer

Brit Jackson**Abby Pinckney****Kendall Wilson**

Social Work
*The Integration and Effects of
 Meditative Virtual Reality (VR) in
 First Responder Wellness*
 Adviser: Katie Godshall

Morgan Jean

Political Science
*Acceptance of Violence in Pursuit of
 Political Goals*
 Adviser: Dante Scala

Myli Jimenez**Jennifer Kapraun****Lindsay Neil**

Humanities, Psychology
*Data Adaption for Know Your Power®
 Bystander Intervention Social
 Marketing Campaign*
 Advisers: Sharyn Potter, Jane Stapleton

Margo Kamis

Nutrition
*Assessing Nutrition Access in Carroll
 County Using the Community Nutrition
 Access Quality (CNAQ) Scorecard*
 Advisers: Nicole French-Wollen,
 Brooke Kelleher

Caitlin Lalley

Psychology
*Psychological Responses to Artificial
 Intelligence in Healthcare Settings*
 Adviser: Casey Roark

Sophia Lorom

English
*Navigating the Modern Publishing
 Industry: Technology and the Changing
 Literary Landscape*
 Adviser: Molly Campbell

Emma Marczak

Zoology
*Comparative Avian Craniometrics with
 Reference to Dietary Patterns*
 Adviser: Janet Anderson

Katherine Martel

Biochemistry, Molecular and
 Cellular Biology
*Complementation of *Toxoplasma gondii*
 and *Plasmodium falciparum* BDPI*
 Adviser: Vicki Jeffers

Archer McClain

Economics
*Demystifying Economic Theory for
 the Public through Web-Based Data
 Communication*
 Adviser: Molly Campbell

Phil Melo DeRosa

International Affairs
Political Party Identification
 Adviser: Dante Scala

Emily Mezick

Homeland Security, Spanish
*The Price of Delay: The Financial and
 Human Costs of Delayed Immigration
 Cases for Unaccompanied Alien Children
 in the U.S.*
 Adviser: Sonic Woytonik

Lucas Morrell

International Affairs
*American Attitudes toward the Gaza War
 Using 2024 ANES Data*
 Adviser: Dante Scala

Evan Munoz

Applied Mathematics
*An Analysis on Moiré Patterns
 in Halftones*
 Adviser: John Gibson

Skyler Murphy**Stefan Nevajdic****Jaclyn Reynolds****Julia Rowe****Neha Sharma**

Psychology
 Neuroscience and Behavior
*How Is Children's Exploration Shaped by
 Alternative Actions?*
 Adviser: Emily Liquin

Kaitlyn Newton

Analytics and Data Science
*AI and Medicine: Website Analysis
 and Design*
 Adviser: Molly Campbell

Ana Nikolenko

Psychology
*Incidental Learning of Mandarin Tones in
 a Vocabulary Learning Task*
 Adviser: Casey Roark

Reilly Opfinger

Political Science
Voting Behaviors of College Students
 Adviser: Dante Scala

Harriet Pearce

Anthropology, Justice Studies
*An Analysis of Factors Pertaining to
 Interest in Political Campaigns*
 Adviser: Dante Scala

Olivia Richards

Nutrition
*Assessing Sex Differences in Central
 Blood Pressure and Heart Rate
 Variability following a Circadian
 Misalignment Protocol*
 Adviser: Michael Brian

Natalia Rothwell

Marine, Estuarine and Freshwater
 Biology, Spanish
*Bad Bunny: Redefining American Cultures
 and Identities through Music*
 Adviser: Lucia Montas

Emma Schmidl-Gagne

Mathematics Education
*Social Impact of Peer Coaches in College
 Entry-Level Mathematics Courses*
 Adviser: Karen Graham

Kayleigh Shearer

Political Science

How Does Education Play a Role in Patriotism?

Adviser: Dante Scala

Benjamin Snow

Political Science

The Impact of Racial Identity in U.S. Elections

Adviser: Dante Scala

Sydney Staples

Psychology

Associations between Parental Mental Health, Parent Emotion Regulation Strategies, and Sensitive Parental Caregiving Behaviors

Adviser: Jill Trumbell

Noelle Stash

Justice Studies, Psychology

Ancient and Modern Double Standards in the Criminal Judgment of Women: A Study through Clytemnestra in Agamemnon

Adviser: Elke Nash

Esher Swanson

Marine, Estuarine and Freshwater Biology, Sustainability

Playing with Sea Monkeys: An Examination of the Use of Decapsulated Artemia as a Means of Improving Current Zebrafish Culture Practices

Adviser: Karolina Kwasek

Olivia Tatro

Biology

Gene Gain and Loss Inform the Evolution of Cnidocytes and Lineage-Specific Traits in Cnidaria

Advisers: Sabrina Pankey,

David Plachetzki

Sara Trudu

Linguistics, Psychology

Incidental Category Learning of Mandarin Tone Speech Categories

Adviser: Casey Roark

Julia Walkowiak

Occupational Therapy

Preparedness of Level II Fieldwork Students for Entry-Level Occupational Therapy Practice following Placements in Role Emerging Campus-Based Childhood Education Centers

Adviser: Amy VanCamp

Justin Wentworth

Environmental Sciences, Sustainability

Creating Predictive Co-Variance Regression Models of Indian Water Quality Using Geospatial Analysis Tools

Adviser: Benjamin Fraser

Sophie Williams

Justice Studies, Sociology

Who Agrees or Disagrees That Women Seek to Gain Power by Getting Control over Men?

Adviser: Dante Scala

Sarah Wizst

Psychology

Effects of Multiple mTBIs on Executive Functioning in College-Aged Women

Adviser: Daniel Seichepine

All Colleges Undergraduate Research Symposium

Oral Presentations, Session C

Friday, April 24**12:15–1:25 p.m.****Memorial Union Building**

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**Memorial Union Building,
Room 338**

Figures of Legend: Capstone Projects from Classics, Humanities, and Italian Studies

Moderator: Ann Zimo

Samuel Boulton

Biomedical Science, Classics

Cato the Elder in Roman Memory

Advisers: Samantha Davis, Ann Zimo

Brendan Connelly

Economics, Humanities

Vincent van Gogh and Impressionism

Adviser: Ann Zimo

Bella DeMarco

English, Italian Studies

Michelangelo and the Rise of Artistic Celebrity

Adviser: Ann Zimo

Steven Heil

Interdisciplinary Humanities

The Idealization of Legendary Characters in Modern Discourse

Adviser: Ann Zimo

Emily Hughes

Italian Studies, Music

Defiance with Pier Paolo Pasolini in the Filmmaking World

Adviser: Ann Zimo

Lindsay Neil

Humanities, Psychology

The Myth of the Pornocracy: The Role of Women in Papal Power as Propaganda Tools

Adviser: Ann Zimo

Reilly Salisbury

Anthropology, Classics

The Many Faces of Constantine: An Analysis of How Medieval European Literary Interpretations of Constantine Reveal How His Identity Shifted over Time

Adviser: Ann Zimo

Kyle Santino

Classics, Zoology

Mapping the Minotaur Myth

Adviser: Ann Zimo

**Memorial Union Building,
Room 334**

Insights from Comparative Environmental Politics

Moderator: Catherine Ashcraft

Adviser: Jeannie Sowers

Bailey Dickman

Political Science

Evolution of Right-Wing Environmental Policy and the Future of Right-Wing Environmentalism

Josh Lopresti

Justice Studies, Political Science
Nationalism against the Environment in Mussolini's Italy and Putin's Russia

Mariam Nada

Economics, Political Science
The Politics of Environmentalism in Egypt

Angelina Palazzolo

Environmental Conservation and Sustainability
Eutrophication Policy Inefficiency: A Case Study Cross-Examination of Lake Erie and Lake Taihu

Matthew Stern

Political Science
How the Fossil Fuel Industry Influences U.S. Policy

Anna Villineau

Political Science
The State of Public Transit in America: Where Do We Go from Here?

**Memorial Union Building,
Room 340**
**International Affairs: Culture,
History, and Language**

Moderator: Kate Zambon
Adviser: Jeannie Sowers

Zoe Flynn

International Affairs
Philosophy and Atrocity: Jewish Responses to Hannah Arendt on Adolf Eichmann

Ava Harmon

International Affairs
The Rise of the AfD in Germany

Tilde Kandell

Analytical Economics,
International Affairs
The Cost of Learning: How Tuition-Based and Tax-Funded Systems Shape Student Access and Financial Well-Being

Ava MacDowell

International Affairs
Echoes of the Past? Culture, Economy, and the Rise of Mussolini and Meloni

Natalie Petersen

International Affairs
Contradictions of Islamic Spain: The Legacy of Al-Andalus and Its Effects on Modern Islamophobic Sentiment

Dante Scarlotto

International Affairs
La Nòstre Lènghe: Language Planning as an Instrument of Control in Southern Italy

**Memorial Union Building,
Room 330**
Multidisciplinary Session V

Moderator: Kate Christison-Lagay

Aimee Bousquet

Marine, Estuarine and Freshwater Biology
Parasite Party: Investigating Ecological Drivers of Trematode Parasite Prevalence across the Isles of Shoals
Advisers: April Blakeslee, David Buck, Amy Fowler

Emily Carlson

Ecogastronomy, Political Science
Climate Change Impacts Italian Viticulturists: How B-Corp and Cover Crop Strategies Promote Economic, Environmental, and Social Sustainability
Adviser: Elizabeth Carter

Mackintyre Rash

Zoology
*New Hampshire Natives: A Preservational Analysis of the Common Snapping Turtle (*Chelydra serpentina*)*
Adviser: Janet Anderson

**Memorial Union Building,
Room 332**
Multidisciplinary Session VI

Moderator: Leigh Pratt

Catie Bodenrader

German, Sociology
The Rise of the Racial State: A Comparison of Policy and Enforcement from Nazi Germany and the Modern United States
Adviser: Cliff Brown

Emmie Duval

Biomedical Science, Philosophy
The Ethics of Biofabrication: The Case of New Hampshire's ARMI
Adviser: Nicholas Smith

Connor Ryan

English, Linguistics
Production and Perception of /s/ and Pitch of Transgender Speakers
Adviser: Rachel Burdin

Abigail Smart

International Affairs, Political Science
From Cocaine to Captagon: Leaders of the Narco-State
Adviser: Mary Fran Malone

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

Poster Session I

**Friday, April 24
9–11 a.m.
Paul College**

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 judges.

**ECON 774: Bachelor of Arts
in Economics**

Adviser: Reagan Baughman

Cameron Badger

Economics, Mechanical Engineering
Does Residential Electrification Reduce Household Energy Expenditures?

Benjamin Black

Business Administration: Accounting, Economics
What Is the Effect of the Earned Income Tax Credit (EITC) on Labor Supply?

Carleigh Brown

Economics

*The Cost of Going Green: How Environmental Policy Reshapes Global Production***Chloe Ciano**

Economics

*The Graduate Gap: Higher Education and Income Inequality***Brendan Connelly**

Economics, Humanities

*How Do Housing First Policies Effectively Reduce Homelessness?***Eli Croteau**

Economics, International Affairs, Spanish

*How Has Brexit Impacted Productivity Growth in the United Kingdom?***John Farris**

Economics

*Market Power in Housing: The Role of Private Equity***Jesse Fernandez**

Economics

*Economic Growth and Health in Developing Countries: Exploring the Mechanisms***Phoebe Green**

Economics, Sustainability

*To What Extent Do Tariffs Result in Higher Prices for Consumers?***Broderick Hamilton**

Business Administration: Finance,

Economics

*Projecting China's Economic Growth***Madison Kolb**

Economics

*The Price of Sugar: Do Sugar Taxes Reduce Obesity-Related Healthcare Costs?***Jackson Murch**

Economics

*The Consequences of Plastic Use and the Role of Economic Solutions***Brodey Pinard**

Economics

*Healthcare Costs and Population Aging***Colton Potter**

Economics

*How Education Reduces Crime: The Role of Opportunity Costs***Benjamin Reiff**

Economics

*Reducing Poverty in Africa***Nate Seitz**

Economics

*Student Loan Forgiveness: Economic Efficiency or Long-Term Cost?***Drew Stone**

Economics

*The Impact of Tariffs on Small vs. Large Firms***Nicholas Tully**

Economics

*How Does Economic Growth in Developing Countries Improve Health?***Joseph Walker**

Economics

*Chronic Disease and Rising Health Care Costs in the U.S.***David Williams**

Economics

*Greek Economic Crisis: Causes and Policy Responses***Xihang Zhang**

Economics, History

*Is It Time to Go Electric? An Economic Analysis of Electric Car Production***ECON 775: Bachelor of Science in Analytical Economics**

Adviser: Aziz Saglam

Kyle Chauvette

Nolan Jones

Aidan Kiley

Analytical Economics

*The Effect of Telehealth on Health Care Costs***Jialin Chen**

Analytical Economics

Molly Mikkonen

Analytical Economics, International Affairs

*Public Debt and Economic Growth***Ariana DiGregorio**

Savannah Nestler

Katherine Soucie

Analytical Economics

*Major Economic Events and Students' Choice of College Major***Willa-Maya Dowling**

Analytical Economics, Justice Studies

Cohan Drainville

Tim Mitus

Analytical Economics

*The Impact of Crime Rate Changes on Domestic Migration***Samuel Farrington**

Analytical Economics

Skye Loto

Anna Steele

Analytical Economics, Political Science

*Assessing the Impact of Education Savings**Accounts on 8th Grade Students' Math and Reading Scores***Pierce-Gabriel Fiorini**

Reid Osborne

Analytical Economics

*Student Loan Debt and Homeownership***Shevis Hankins**

Dalton Lawrence

Analytical Economics

Tilde Kandell

Analytical Economics,

International Affairs

*Public Transportation Infrastructure**and Economic Growth***Jesse Harriott**

Ryan Vogel

Analytical Economics

*Occupational AI Exposure and the Wage**Premium for Economics Majors***Tyler Truesdell**

Andrew Turkington

Analytical Economics, Geography

The Economic Impact of the Olympic Games

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

Poster Session II

Friday, April 24
11:30 a.m.–1:30 p.m.
Paul College

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 judges.

Economics of Climate Change

Adviser: Robert Mohr

Ritu Agrawal

Economics, Finance

Emmett Chretien

Analytical Economics

Kevin Murphy

Economics

The California Cap-and-Trade System for GHG Emissions

Sabrina Bernard

Molly Nichols

Analytical Economics, Sustainability

Catalina Blando

Analytical Economics

An Economic Analysis of the United Kingdom's Emissions Trading Scheme

Charlie Bijesse

Aqil Fawwaz

Analytical Economics

Phoebe Green

Economics, Sustainability

The Swiss Approach to Carbon Reduction: Efficiency, Incentives, and Policy Design

Albert Candra

Economics, International Affairs

Akira McDowell

Economics, Music

Johannes Shull

Economics

An Analysis of Japanese Emissions Trading Systems

Madelyne Hancock

Sean Prevelige

Economics

Xihang Zhang

Economics, History

The Regional Greenhouse Gas Initiative: A Cap-and-Trade System

Jack Hansen

Ryan Pacileo

Economics

Matthew Smith

Economics

The Economics of the European Union's Emissions Trading System

Catie Jantzi

Business Administration: Management, Environmental Conservation and Sustainability

Kaili Savage

Dylan Wood

Applied Mathematics

An Economic Analysis of New Zealand's Emissions Trading Scheme

James Reda

Analytical Economics

Scott Senatore

Environmental and Resource Economics

An Economic Analysis of Cap-and-Trade in a Growing Economy: The Korean Emissions Trading Scheme

Multidisciplinary/Honors: Other

Samuel Becker

Ecogastronomy, Hotel and Hospitality Management

Utilizing AI for Predictive Analysis in Vineyards

Adviser: Nicole French-Wollen

Benjamin Black

Business Administration: Accounting, Economics

An Examination of Firm-Level Differences in Form AP Amendment Filings across Big Four Audit Firms

Adviser: Jonathan Nash

Sean Donoghue

Nathan Kluskiewicz

Jackson Murch

Economics

A Comparative Analysis of Carbon Pricing in Canada's Highest Emitting Provinces

Adviser: Robert Mohr

Peter Duriga

Applied Mathematics, Business Administration: Information Systems and Business Analytics

Connor Felthun

Owen Garzia

Analytical Economics

Sean Pothier

Business Administration: Information Systems and Business Analytics

Perry Swanker

Information Systems and Business Analytics

Impact of Datacenters on Wholesale Electricity Price

Adviser: David Reynolds

Jessica King

Ecogastronomy, Hotel and Hospitality Management

Exploring a New Hampshire Agritourism Passport

Adviser: Nicole French-Wollen

Alexandra Mahoney

Business Administration: Hospitality Management, Ecogastronomy

Local Plates, Lasting Connections

Adviser: Nicole French-Wollen

Rhea Shirodkar

Business Administration: Information Systems and Business Analytics, Business Administration: Management
Differential Effects of Growing-Season Climate Anomalies on New England Crop Yields: A 1990-2024 Comparative Analysis of Heat-Tolerant and Heat-Sensitive Crops
 Adviser: Jing Wang

Shay Sullivan

Marketing, Sustainability
International Changemaker Grants: Marketing Research and Wine to Water (Tanzania)
 Adviser: Cinthia Saturnino

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

Oral Session

Friday, April 24
12:15–1:45 p.m.
Paul College

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 judges.

Marketing Workshop Presentations

Adviser: Peter Masucci

Mark Balboni
Marcus DiBello
Karina Malachowski
Natalie Mellina
Chloe Miller
Hannah Stewart
 Marketing
Portsmouth Music and Arts Center

Malli Begin

Ty Mitchell
Owen Pierce
 Marketing
Rachel Cliche
 History, Marketing
Carly Quill
 Marketing, Sport Management and Leadership
TaleSpinner Brewery

Natalya Berlind

Jack Dion
Ellie Hornkohl
 Marketing
Madison Boyer
 Justice Studies, Marketing
John Muentener
 Marketing, Sustainability
Living. Simplified.

Jaylie Borsello

Erin Fairbairn
Justin Holt
Hannah Kelley
Adrienne Smith
Arthur Stanley
 Marketing
Second Nature Academy

Carter Bransfield

Jake Cherubini
Kendall Donovan
Colleen McGee
Emma Milks
Kaitlyn Philpott
 Marketing
Miss NH Scholarship Program

Ryan Branson

Wesley Joseph McGough
Ella Novak
Amy Staunton
Anna Thompson
 Marketing
NH Toy Library Network

Adam Bridges

Samantha Chuslo
Amanda Foss
Kirsty O'Grady
Stephen Thorne
 Marketing
Charlotte Selmer
 Information Systems and Business Analytics, Marketing
The Granite YMCA

Taylor Brown

Marcus Fontecchio
Holly Sullivan
 Marketing
Ariana Contessi
 Business Administration: Marketing, Ecogastronomy
Riley Himes
 Information Systems and Business Analytics, Marketing
Unicode Consortium

Darius Bubacz

Accounting, Marketing
Avery Greene
Jenin Jarrar
Matthew Solan
Leah Sprado
Tara Wright
 Marketing
NH Afterschool Network

Shane Burton

Abigail Linstad
 Information Systems and Business Analytics, Marketing
Adam Freiburger
Zoe Kahle
 Marketing
Emily Paltauf
 Management, Marketing
Community Action Partnership

Kayla Chacon

Brady Crowe
Lauren Dee
Jack Halloran
Ally Parkinson
Paige Spencer
 Marketing
JZ Consulting Agency

Nicholas Clifford

Sophia Dionne
Joseph O'Brien
Emma Skafas
 Marketing
Lamprey Health Care

Brendan Cody

Larkin Hefner
Robert Labarre
Hugh Lynch
Cassidy Ray
 Marketing
World Affairs Council of NH

Ava Deaza-Roed
 Joe Grindrod
 Gavin Hills
 Dominic Pallaria
 Brooke Thurston
 Marketing
Human Nature Natural Health

Lianna Martinez
 Sean Quinn
 Information Systems and Business
 Analytics, Marketing
 Maddie Nerden
 Barrett Urquhart
 Marketing
The Yin Lounge

The Naked Arts— Creativity Exposed!

Act III

Friday, April 24
12:15–1:25 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.

Samantha Christen
 English Literature
Heaven Is a Stripmall
 Adviser: Thomas Payne

Stella Merrill
 English Literature, Political Science
Flash!
 Adviser: Thomas Payne

Chloe Rattee
 English Literature
Sestina for All You Raccoons
 Adviser: David Blair

Psychology Department George M. Haslerud Undergraduate Research Conference

Friday, April 24
1–3 p.m.
McConnell Hall, Room 220

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.

Rowan Anderson
 Psychology, Women's and Gender Studies
Leaving Religion, Leaving Bias: Religious Disaffiliation and Transprejudice
 Adviser: Marah Al-Kire

Kaleigh Dooney
 Justice Studies, Psychology
Age of Awareness of Caregiver, Sibling, or Peer Substance Misuse in Relation to Self-Reliance
 Adviser: Kimberly Mitchell

Kara Dudley
 Psychology
AI and the Illusion of Knowledge? How AI-Assisted Searching Affects Confidence and Curiosity
 Adviser: Emily Liquin

Richard Gulbankian
 Neuroscience and Behavior, Psychology
The Relationship between Trauma Impact and Alcohol Demand and the Role of Human Resilience
 Adviser: Sergios Charntikov

Marissa Montagna
 Psychology
Rule Breaking in Corporations: Does Leadership and Seriousness Make a Difference?
 Adviser: Ellen Cohn

Ryan Moran
 Psychology
Hey, Siri: How Companionate AI Usage Affects Social Satisfaction and Personal Intelligence
 Adviser: John D. Mayer

Mia Ryder
 Psychology
Screen Time vs. Green Time: How Does Media and Nature Exposure Impact Next-Generational Social Interaction?
 Adviser: Lisa Jones

Virginia Schwarz
 Psychology
Examining Curiosity and Explanatory Evaluations across Religious and Non-Religious People
 Adviser: Emily Liquin

Caroline Stack
 Justice Studies, Psychology
After the Impact: Balance Function in Women with Repeated Concussions
 Advisers: Brett Gibson, Daniel Seichepine

College of Health and Human Services (CHHS) Grimes Award Competition

Friday, April 24
1–4 p.m.
Pettee Hall, Room G10

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.

Meryam Belhassad
 Nursing, Women's and Gender Studies
Knowledge, Attitudes, and Beliefs Surrounding Maternal Cannabis Use and Lactation
 Advisers: Daisy Goodman, Lisa Lamadriz, Alyssa O'Brien

Kelly Brown

Exercise Science

The Role of Physical Activity and Added Sugar on Maximal Fat Oxidation during Graded Exercise

Adviser: Michael Brian

Owen Daigle

Exercise Science

Evaluation of Non-Local Muscle Fatigue in Males and Females

Adviser: Summer Cook

Sarah Guerrette

Exercise Science

The Influence of Breakfast Skipping on HEI in Healthy Young Adults and the Association of HEI and Central Blood Pressure

Adviser: Michael Brian

Ty Hetrick

Occupational Therapy

Embracing Anomalous Perceptions: Sensory Anomalies, Stigma, and Self-Acceptance

Adviser: Sarah Smith

Kylie Martone

Exercise Science

Effects of Exercise Prescription Prompts on Physiological, Perceptual, and Accelerometer-Derived Measures of Walking Intensity in Untrained Young Adults

Adviser: Michael Brian

Leandra Pereira

Communication Sciences and Disorders

Impact of Executive Functioning, Social Communication, and Self-Determination on Academic Success in Neurodiverse College Freshmen

Adviser: Kathryn Greenslade

Claire Roy

Nursing

Bias in Nursing Students: How Student Exposure Impacts Patient Experience

Adviser: Alyssa O'Brien

Honors English Undergraduate Research Conference**Friday, April 24****2–3:30 p.m.****Hamilton Smith Hall, Room 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.

Claire Caussade

English/Journalism

Costume in Film

Adviser: Delia Konzett

Carli Gauvin

English Teaching

Reading between the Lines: Representations of Dyslexia in Young Adult Literature

Adviser: Alecia Magnifico

Alex Hankins

English

Elena Ferrante: A Borderless Identity

Adviser: James Rioux

Connor Ryan

English, Linguistics

Production and Perception of /s/ and Pitch of Transgender Speakers

Adviser: Rachel Burdin

Katie Sullivan

English Teaching

The Benefits and Deficits in Science of Reading Instruction

Adviser: Alecia Magnifico

Alexander Volokitkin

English

The Auteur and the State: Counter-Memory in Post-Stalin Soviet War Cinema

Adviser: Matthias Konzett

Philosophy Department Undergraduate Research Conference**Friday, April 24****3–7 p.m.****Hamilton Smith Hall, Room 240**

The Philosophy Department 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.

Jayden Cruz

Social Work

Pressing Play for Latina Women in Video Games

Adviser: Sherri Simmons-Horton

Zachary Dolfini

Applied Mathematics, Philosophy

The Essential Animal

Adviser: Nicholas Smith

Emmie Duval

Biomedical Science, Philosophy

The Ethics of Biofabrication: The Case of New Hampshire's ARMI

Adviser: Nicholas Smith

Ry Fox

Philosophy

Supererogation and Friendship

Adviser: Paul McNamara

Julia Giegel**Harrison Keane**

Philosophy

Promising and Supererogation

Adviser: Paul McNamara

Ava Hayward

Justice Studies, Philosophy
*Understanding the Process of
 Online Radicalization*
 Adviser: Nicholas Smith

Jackson Hemphill

Justice Studies, Philosophy
Do Something, Not Everything
 Adviser: Paul McNamara

Aidan Kirk

Classics, History, Philosophy
*Admiration, Attainability, and Moral
 Understanding: A Reassessment of
 Exemplarist Theory*
 Adviser: Paul McNamara

Jesus La Paz Sosa

Justice Studies, Philosophy
*Making Room for Morality: Kant's
 Third Antinomy*
 Adviser: Claudi Brink

Tyler Mason

Classics, Philosophy
*Losing Our Minds: Negative Cognitive
 Effects and Smart Use of AI*
 Adviser: Nicholas Smith

Grace Richardson

Philosophy
*The Sequence View of the Supererogatory
 and Existential Risk*
 Adviser: Paul McNamara

Aleah Ryan

Neuroscience and Behavior, Philosophy
The Nomos-Phusis Dilemma
 Adviser: Timm Triplett

Nicholas Warren

Philosophy
*A Phenomenological Inquiry into an
 Existential Idealism*
 Adviser: Matthew Dowd

UNH Manchester URC Engineering Technology Robotics Competition

Saturday, April 25

8 a.m.–4:30 p.m.

**88 Commercial St.,
 MPR Room 201, Manchester**

The VEXU Robotics competition is a way to foster our students' interest and involvement in science, technology, engineering, and mathematics (STEM) by engaging them in hands-on, affordable, and sustainable robotics engineering programs. Through remote and in-person activities, students increase their innovative thinking, problem-solving, and communication skills, enhancing their academic journey to build a talented workforce in various STEM-related professions.

COLSA Undergraduate Research Conference

Oral Presentations

Saturday, April 25

8:15–10 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.

Olivia Boyan

Zoology
*New Hampshire Shellfish under Pressure:
 Physiological Effects of Climate Change
 and Toxic Algal Blooms*
 Adviser: Brittany Jellison

Anthony Dempsey

Nutrition
*Low Energy Availability and Its
 Relationship to Nutritional Status and
 Bone Health in Collegiate Athletes*
 Adviser: Jesse Stabile Morrell

Lyv Dubois

Biochemistry, Molecular and
 Cellular Biology
*Investigating the Invasion Efficiency of
 Toxoplasma gondii Parasites with an
 AP2X-VII Knockout*
 Adviser: Vicki Jeffers

Matthew Farbaniec

Genetics
*Investigating Microbe-Mediated
 Temperature Tolerances in Duckweeds*
 Adviser: Anna O'Brien

Adrianna George

Animal Science
*Metabarcoding Ixodes scapularis to
 Characterize Feeding Behavior in
 Comparison to Pathogen Carriage and
 Geospatial Distribution*
 Adviser: David Needle

Rowan Grzeszkiewicz-O'Neill

Equine Studies
*The Effect of Pulsed Electromagnetic
 Field (PEMF) Therapy on Inflammation
 in Horses as Evaluated by Infrared
 Thermography*
 Adviser: Sarah Rigg

Richard Gulbankian

Neuroscience and Behavior, Psychology
*The Relationship between Trauma Impact
 and Alcohol Demand and the Role of
 Human Resilience*
 Adviser: Sergios Charntikov

Mphatso Langa

Wildlife and Conservation Biology
Sex-Specific Trade-Offs in Nasonia Wasps
 Adviser: Istvan Miko

Robert LeMay

Biochemistry, Molecular and
 Cellular Biology
*Influence of Microbial Communities and
 Heavy Metals in Green Manure on Growth
 in Lactuca sativa*
 Adviser: Anna O'Brien

Olivia Lucia

Marine, Estuarine and Freshwater Biology
Quantifying Toxin Gene Expression in a Harmful Algal Bloom Species in Coastal NH
 Adviser: Elizabeth Harvey

Dhiraj Naidu

Biochemistry, Molecular and Cellular Biology
Evaluating the "Kill-the-Winner" Hypothesis in Soil Ecosystems: Do Soil Viruses Disproportionately Lyse Fast-Growing Soil Bacteria?
 Advisers: Nathan Blais, Jessica Ernakovich

Luke Nugent

Forestry
How Stand Structural Characteristics Influence the Population Dynamics of Two Forest Pests: Hemlock Woolly Adelgid and Elongate Hemlock Scale
 Adviser: Teresa Cohn

COLSA Undergraduate Research Conference

Poster Presentations

Saturday, April 25
10:10 a.m.–12 p.m.
Memorial Union Building,
Granite State Room

Student presentations at the COLSA URG 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.

Isabelle Alagna

Zoology
The Effects of Food Presence on Begging Behavior in Common Tern Chicks
 Adviser: Laura Kloepper

Sara Amovic

Neuroscience and Behavior
The Emotional Impact of Awe on Language Learning and Memory
 Adviser: Casey Roark

Ava Atwood

Zoology
Research Internship with Litchfield Land Trust
 Adviser: Istvan Miko

Kevin Baker

Neuroscience and Behavior
Impacts of Reelin C-Terminal Truncation on Principal Neuron Positioning and Cilia Directionality in the Mouse Cortex
 Adviser: Xuanmao Chen

Molly Barber

Forestry
Local-Scale Quantification of Forest Carbon Using Unmanned Aerial System (UAS) Lidar
 Adviser: Benjamin Fraser

Lauren Barnes

Biochemistry, Molecular and Cellular Biology
Large Scale Enzyme Production for Topologically Controlled dsDNA Hydrogels
 Adviser: Nate Oldenhuis

Robin Batchelor

Biomedical Science
Characterization of the Vibrio spp. Community in a New Hampshire Estuarine Ecosystem
 Adviser: Stephen Jones

John Batts

Environmental Conservation and Sustainability

Mia Hankey

Environmental Sciences
Land-Use Impacts on Stream Health in the Mangahanene Stream, Waikato, New Zealand
 Adviser: Wilfred Wollheim

Manda Baumgardt

Biomedical Science
Association between Food Insecurity and Cardiovascular Disease: Insights from BRFS 2024
 Adviser: Semra Aytur

Samuel Becker

Ecogastronomy, Hotel and Hospitality Management
Utilizing AI for Predictive Analysis in Vineyards
 Adviser: Nicole French-Wollen

Ben Begin

Biochemistry, Molecular and Cellular Biology
Engineered Biocomposites for Angiogenic Signaling and Tissue Vascularization
 Adviser: Linqing Li

Grace Bemis**Ella Mack**

Marine, Estuarine and Freshwater Biology
Effect of Road Salts on Amphibian Eggs
 Adviser: David Steinberg

Catherine Benjamin

Biomedical Science
Disrupting Compulsory Behaviors Surrounding Hookup Culture among Emerging Adults: A Biopsychosocial Analysis
 Adviser: Nena Stracuzzi

Ava Bjorkman

Environmental Sciences, Sustainability
The Relationship between Off-Season Water Quality, Precipitation, and Public Health Risks at Six New Hampshire Beaches: A Collaboration with the New Hampshire Surf Rider Foundation
 Adviser: Stephen Jones

Corey Blommel

Environmental Sciences
Can We Use Hyperspectral Reflectance to Map Turgor Loss Point across a Forested Landscape?
 Advisers: Jack Hastings, Scott Ollinger

Aimee Bousquet

Marine, Estuarine and Freshwater Biology
Parasite Party: Investigating Ecological Drivers of Trematode Parasite Prevalence across the Isles of Shoals
 Advisers: April Blakeslee, David Buck, Amy Fowler

Olivia Boyan

Zoology
New Hampshire Shellfish under Pressure: Physiological Effects of Climate Change and Toxic Algal Blooms
 Adviser: Brittany Jellison

William Brandenburg

Wildlife and Conservation Biology
A Frog, a Toad, and a Salamander Walk into a Forest: How Timber Harvest and Environmental Conditions Impact Species Abundance in the White Mountains National Forest
 Advisers: Rebecca Rowe, Joshua Willems

Emma Breen

Biology
Connecting the Micro to Macro: Student-Designed Freshwater Taxonomic Key for Community Use
 Adviser: Amanda McQuaid

Jocelyn Brierley

Zoology
Participatory Science: Monitoring to Further Understand Toxic Cyanobacteria in Wolfeboro Lakes through Students, Volunteers, and Community Support
 Adviser: Amanda McQuaid

Sophie Brunner

Zoology
Mesoamerican Odonata Specimens from the Paul Miliotis Collection
 Adviser: Istvan Miko

Natalie Bunn

Animal Science
Effects of Perching Behavior in Broilers on Associated Welfare and Production Benefits
 Adviser: Vanessa Grunkemeyer

Arielle Butterfield

Biology
Vibrio in Local Waterbodies
 Advisers: Elizabeth Harvey, Sara Smith

Nicholas Caporale

Sophie Clark
 Marine, Estuarine and Freshwater Biology
*The Influence of the Invasive Sea Grass *Halophila stipulacea* on the Acoustic Behavior of Snapping Shrimp*
 Adviser: Gregg Moore

Ralph Cerbone

Genetics
Microscopical and Phylogenetic Analysis of the Rotifer Visual Systems Associated with Opsin Evolution
 Adviser: David Plachetzki

Liliana Chirichella

Biology
Nikhila Lampman
 Environmental Engineering
Our Changing Wetlands: Current and Historical Occurrences of Rare Plants in New Hampshire Salt Marshes
 Adviser: Gregg Moore

Evan Christensen

Genetics
Phylogenomics and Time-Calibrated Analyses of Cyclostome Divergence, Diversity and Biogeography
 Adviser: David Plachetzki

Jaahnavi Chukkala

Raja Gaddam
 Biotechnology
RNA Expression and Quality Assessment in Bioprinted and Non-Encapsulated ReNcell VM Neurospheres Using qPCR and Northern Blot Analysis
 Adviser: Won Hyuk Suh

Ronni Clancy

Marine, Estuarine and Freshwater Biology
*The Effects of Dietary Protein Origin on Growth Performance of Zebrafish *Danio rerio**
 Adviser: Karolina Kwasek

Erin Classey

Environmental Sciences, Sustainability
Digitalizing and Analyzing Water Quality Data from the Durham Water Treatment Facility
 Adviser: Wilfred Wollheim

Jack Colantuoni

Biomedical Science
Kaitlyn Hauler
 Biochemistry, Molecular and Cellular Biology
How Well Can Bats Be Counted? Implications for Bat Monitoring and Conservation
 Adviser: Laura Kloepper

Jack Colantuoni

Biomedical Science
Kaitlyn Hauler
 Biochemistry, Molecular and Cellular Biology
Team BatGPT: A Model for Peer-Led Research at UNH
 Adviser: Laura Kloepper

Ariana Contessi

Business Administration: Marketing,
 Ecogastronomy
Improving SNAP Outreach and Engagement at Farmers' Markets
 Adviser: Nicole French-Wollen

Vivianna Cosgrove

Zoology
Aphanogmus dorsalis, a Ceraphronid with Unique Mesoscutellar Morphology (Hymenoptera: Ceraphronidae)
 Adviser: Istvan Miko

Paige Cote

Zoology
*Intraspecific Variation in *Lynx rufus* Skulls*
 Adviser: Rebecca Rowe

Sarah Cranna

Neuroscience and Behavior, Psychology
Preserved Artificial Grammar Learning in Individuals with Parkinson's Disease: A Systematic Review
 Adviser: Amy Ramage

Ayla Currier

Animal Science
A Survey of Biosecurity on Equine Farms in New Hampshire
 Adviser: Sarah Rigg

Kylie Czarnik

Marine, Estuarine and Freshwater Biology
Using Passive Acoustic Monitoring to Assess Seasonal Occurrence of Pinnipeds in Bristol Bay, Alaska
 Advisers: Michelle Fournet, Rachel Lewis

Royce D'Amelio

Biomedical Science
Exploring Kidney Disease in Captive Cheetahs: A Case Study from Namibia and the Role of SDMA and Blood Biomarkers
 Adviser: Andrew Conroy

Seren Davies

Genetics
Characterizing Salt Marsh Microbial Communities in Relation to Depth and Organic Matter
 Adviser: Ashley Bulseco

Andrew Delaney

Environmental Sciences, Zoology
Key Findings in Freshwater Resources
 Adviser: Sidney Huynh

Anthony Dempsey

Nutrition

Low Energy Availability and Its Relationship to Nutritional Status and Bone Health in Collegiate Athletes
Adviser: Jesse Stabile Morrell

Amy DiVito

Biochemistry, Molecular and Cellular Biology

Designing DNA Intercalating Supramolecular Hydrogels with Tunable Structural Properties
Adviser: Nate Oldenhuis

Amanda Diggins

Biomedical Science

Surveillance of a Novel Vesivirus Discovered in an Urban Mephitis mephitis Population
Adviser: David Needle

Avalaine Dries

Ecogastronomy, Nutrition

Highlighting Farm to Early Care and Education Gardening Programs in New Hampshire
Advisers: Nicole French-Wollen, Nooreem Mena

Tianyi Duan

Biology

Examining Time-Dependent Thermal Tolerance across Mollusks and Crustaceans from Great Bay, NH
Advisers: Drew Villeneuve, Easton White

Lyv Dubois

Biochemistry, Molecular and Cellular Biology

Investigating the Invasion Efficiency of Toxoplasma gondii Parasites with an AP2X-VII Knockout
Adviser: Vicki Jeffers

Ashlyn Duplessis

Zoology

Exploring Historical Shifts in Pollen Nutrition, Diversity, and Bee Physiology across the Northeastern U.S.
Adviser: Istvan Miko

Ashlyn Duplessis

Zoology

Sarah Glennon

Wildlife and Conservation Biology
MicroCT Data Analysis: Volumetric Trade-Offs in Insects
Adviser: Istvan Miko

Mohamed Elsaid

Biomedical Science

The Role of GLI2 in IL-2 Production in T Cells
Adviser: Sherine ElSawa

Joe Faherty

Biochemistry, Molecular and Cellular Biology

Engineering an Antifreeze Protein to Study Ice Binding and Cryoprotection
Adviser: Krisztina Varga

Matthew Farbaniec

Genetics

Investigating Microbe-Mediated Temperature Tolerances in Duckweeds
Adviser: Anna O'Brien

Alexandra Ferreri

Animal Science

The Association of Internal Body Temperature and Inflammatory Status in Early Lactation Jersey Cows
Adviser: Claira Seely

Adrianna George

Animal Science

Metabarcoding Analysis of Northeast Tick Species: Feeding Behavior and Pathogen Carriage in Odiorne Point State Park
Adviser: David Needle

Gianna Giusti

Environmental Conservation and Sustainability

Tipping the Scales: Measuring Bioaccumulation in Shellfish by Weight Changes
Adviser: Brittany Jellison

Jake Gizzi

Environmental Sciences

Investigations into Methane and Carbon Dioxide Gas Exchange at the Robert Findlay Wildlife Reserve at Pūkoro, New Zealand
Adviser: Serita Frey

Sarah Glennon

Wildlife and Conservation Biology

The Evolution of Ultraviolet Reflectance of Throat Fans in Tropical Lizards
Adviser: David Steinberg

Noah Gordon

Marine, Estuarine and Freshwater Biology

The Effect of Sediment and Mussel Addition on Porewater Chemistry and Benthic Infaunal Community
Adviser: Gregg Moore

Matt Gough

Zoology

The Attentional Effects of Serotonergic Lesions in the Anterior Cingulate Cortex
Adviser: Jill McGaughy

Meena Gourley

Environmental Sciences

The Impact of Urbanization on Total Suspended Sediments in the Ipswich River Watershed, MA
Adviser: Wilfred Wollheim

Finn Graff

Biology

Comparing Gray Seal (Halichoerus grypus) Call Duration at Three Sites in the Northwest Atlantic
Advisers: Michelle Fournet, Jessica Veo

Ashley Greene

Neuroscience and Behavior

Carleigh Koopman

Environmental Sciences

Motivating Factors for Students Learning R Programming in STEM Courses
Adviser: Melissa Aikens

Rowan Grzeszkiewicz-O'Neill

Equine Studies

The Effect of Pulsed Electromagnetic Field (PEMF) Therapy on Inflammation in Horses as Evaluated by Infrared Thermography
Adviser: Sarah Rigg

Richard Gulbankian

Neuroscience and Behavior, Psychology

The Relationship between Trauma Impact and Alcohol Demand and the Role of Human Resilience
Adviser: Sergios Charntikov

Tyler Hamel

Biomedical Science
Identifying Novel GLI2-Associated Secretory Targets in Waldenström's Macroglobulinemia
 Adviser: Sherine ElSawa

Ella Hannon

Biology, Marine, Estuarine and Freshwater Biology
A Tale of Two Fishes: A Comparison of Growth and Survival Rates of Wild and Pet Store/Domesticated Zebrafish
 Adviser: Karolina Kwasek

Kara Hatalsky

Zoology
Morgan Pritchett
 Psychology, Zoology
The Influence of Environmental Factors and Disturbances on Migratory Shorebird Behavior at a High Tide Roosting Site
 Adviser: Janet Anderson

Madelynn Hernandez

Animal Science
Assessing Amino Acid Methionine Products in a Ninhydrin Analytical Model
 Adviser: Nancy Whitehouse

Braelyn Hilsenbeck

Neuroscience and Behavior
Listening into Stillness: Auditory Stimuli for Triggering Relaxation and Awareness (ASTRA)
 Adviser: Kate Christison-Lagay

Sophie Hodge

Biomedical Science
A Comparative Analysis of the Lens Regenerative Process between Newts and Axolotl
 Adviser: Konstantinos Sousounis

Kelsey Hodsdon

Biochemistry, Molecular and Cellular Biology, Justice Studies
Generating Concentrated Ring Polymers through Supercoiled and Open Circle pDNA Isoform Separation
 Adviser: Nate Oldenhuis

Zachary Hooper

Forestry
The Relationship between Forest Fires and Regeneration Dynamics of Red Oak in Northern New England
 Adviser: Matthew Vadeboncoeur

Nicki Hyslop

Animal Science
Effects of Calcium Ionophore and Thrombin on the Expression of Angiogenic Factors in Bovine Luteal Cells
 Adviser: Paul Tsang

Matthew Jasper

Biomedical Science
Previous Mild Traumatic Brain Injury's Effect on Attention, Effort, and Fatigue in a Psychomotor Visual Task
 Adviser: Amy Ramage

Maggie Johnson

Wildlife and Conservation Biology
Impacts of Artificial Light at Night on New Hampshire Bat Foraging Activity
 Adviser: Laura Kloepper

Kayla Johnson

Zoology
Rumen-Protected Methionine and Lysine during First 70 Days of Lactation
 Adviser: Nancy Whitehouse

Margo Kamis

Nutrition
Assessing Nutrition Access in Carroll County Using the Community Nutrition Access Quality (CNAQ) Scorecard
 Advisers: Nicole French-Wollen, Brooke Kelleher

Margo Kamis

Nutrition
Evaluating the Healthfulness of the University of New Hampshire's Food Environment Using the Healthy Campus Environmental Audit (HCEA)
 Adviser: Jesse Stabile Morrell

Kaz Karas

Zoology
Decoding Visual Signals in a Jamaican Lizard
 Adviser: David Steinberg

Sam Kendall

Environmental Sciences
Comparing Arctic Permafrost Mercury Levels and Their Variance after a Decade
 Adviser: Maria Florencia Fahnestock

Calista Kerls

Biochemistry, Molecular and Cellular Biology
Targeting STAT3 and NF-kB in Ovarian Cancer Cells
 Adviser: Sarah Walker

Robert LeMay

Biochemistry, Molecular and Cellular Biology
Influence of Microbial Communities and Heavy Metals in Green Manure on Growth in Lactuca sativa
 Adviser: Anna O'Brien

Somer Loto

Biomedical Science
Glow and Tell: Visualizing Cell Division Defects in a Mutant Toxoplasma gondii Parasite
 Adviser: Vicki Jeffers

Olivia Lucia

Marine, Estuarine and Freshwater Biology
Quantifying Toxin Gene Expression in a Harmful Algal Bloom Species in Coastal NH
 Adviser: Elizabeth Harvey

Alexandria Lyden

Genetics
Infectious Organism Lurking in Canine Airways? Tiled Amplicon Sequencing Unveils the Genome of a Bacteria Associated with Respiratory Disease in Dogs (BARDiD)
 Adviser: W. Kelley Thomas

Owen MacDonald

Biomedical Science
Influence of Microbial Communities and Heavy Metals on Biomass Production in Lemna minor
 Adviser: Anna O'Brien

Sharon MacDougall

Sustainable Agriculture and Food Systems
Bloom Stage Impacts Cold-Hardy Hydrangea Cut Flower Vase Life
 Adviser: Rebecca Sideman

Ella Mack

Marine, Estuarine and Freshwater Biology
Variation of Farming Practices and Success of Overwintering Eastern Oysters (Crassostrea virginica)
 Adviser: Brittany Jellison

Damien Mann

Genetics
Investigating the Effects of TMEM116 and SORBS1 Gene Knockouts on Salamander Lens Regeneration
 Adviser: Konstantinos Sousounis

Emma Marczak

Zoology
Comparative Avian Craniometrics with Reference to Dietary Patterns
 Adviser: Janet Anderson

Sarah Maria**Katherine Matczak**

Zoology
Hyena Den Distribution and Human-Hyena Interactions in the Greater Amboseli Ecosystem
 Adviser: Jennifer Wanyingi

Katherine Martel

Biochemistry, Molecular and Cellular Biology
Complementation of Toxoplasma gondii and Plasmodium falciparum BDPI
 Adviser: Vicki Jeffers

Mark Martin

Ecogastronomy, Sustainable Agriculture and Food Systems
An Inventory of Current Processing Capacity in New Hampshire's Food System
 Adviser: Katelyn Porter

Kristina Mileski

Animal Science
Foot-and-Mouth Disease: What Is It and How Does It Impact Namibia's Livestock and Wildlife?
 Adviser: Andrew Conroy

Emily Molnar

Zoology
Seeing through Sound: An Acoustic Analysis of Variations in Echolocation from Myotis Bat Species during Mist Net and Bat Interactions
 Adviser: Laura Kloepper

Karina Mukavetz

Marine, Estuarine and Freshwater Biology
Monitoring Water Quality and Plankton Succession in the Lake Kanasatka Watershed after Aluminum Sulfate Treatment: How Do Kanasatka and Wakondah Compare One Year Later?
 Adviser: Amanda McQuaid

Dhiraj Naidu

Biochemistry, Molecular and Cellular Biology
Evaluating the "Kill-the-Winner" Hypothesis in Soil Ecosystems: Do Soil Viruses Disproportionately Lyse Fast-Growing Soil Bacteria?
 Advisers: Nathan Blais, Jessica Ernakovich

Leo Napoleon

Biochemistry, Molecular and Cellular Biology
Jacob Nipoti
 Biomedical Science
FGF Activates Wnt Signaling during Newt Lens Regeneration
 Adviser: Konstantinos Sousounis

Brooke Nasiff

Animal Science
College Students' Knowledge, Perceptions, and Strategies Regarding Campylobacter in a One Health Context
 Adviser: Vanessa Grunkemeyer

Luke Nugent

Forestry
How Stand Structural Characteristics Influence the Population Dynamics of Two Forest Pests: Hemlock Woolly Adelgid and Elongate Hemlock Scale
 Adviser: Teresa Cohn

Thomas Osborne

Biology
Comparing Diversity Metrics of Vascular Plant Species of Sandpits
 Adviser: Erin Sigel

Emily Palermo

Animal Science
Diagnosis of Ketosis in Dairy Cattle Utilizing Ketone Bodies (BHB) and Ruminant Time
 Adviser: Clairra Seely

Ella Pelis

Biology
Consequences of Dab1 Loss on Neuronal Primary Cilia Length and Directionality
 Adviser: Xuanmao Chen

Summer Pescinski

Animal Science
Crab and Lobster Shell Meal Taste Preferences of Dairy Heifer Calves
 Adviser: Peter Erickson

Elisabeth Petit

Marine, Estuarine and Freshwater Biology
The Colonization Pattern of the Atlantic Marsh Fiddler Crab, Minuca pugnax (Smith, 1870) in Its Northern Expanded Range of New Hampshire
 Adviser: Chris Peter

Liliana Pistor

Biology, Sustainability
Identifying Olfactory Processing Differences between Mite-Susceptible and Suppressed Mite Reproduction (SMR) Honey Bee Colonies Using Proboscis Extension Reflex (PER) Conditioning
 Adviser: Amelie Noel

David Popa

Biochemistry, Molecular and Cellular Biology
Comparison of Gut Microbiota of Eptesicus fuscus and Myotis lucifugus Populations across New Hampshire
 Adviser: Ashley Bulseco

Ram Prajapati

Neuroscience and Behavior
GLP-1 Receptor Agonists as a Potential Treatment for Alcohol Use Disorder
 Adviser: Sergios Charntikov

Ava Prieto

Neuroscience and Behavior
Exploring the Effects of Voluntary Wheel Running on Inhibitory Control
 Adviser: Adam Brockett

Mackintyre Rash

Zoology
New Hampshire Natives: A Preservation Analysis of the Common Snapping Turtle (Chelydra serpentina)
 Adviser: Janet Anderson

Emma Rawlson

Marine, Estuarine and Freshwater Biology
Assessing Water Quality, Trophic Conditions, and Plankton Community Structure of Nippo Lake in Barrington, NH
 Adviser: Amanda McQuaid

Owen Richards

Biology
Wildlife Captured around UNH Campus
 Adviser: Patricia Jarema

Bridget Richmond

Biomedical Science
Bioavailability of Rumens-Protected Methionine Supplements in Holstein Dairy Cattle
 Adviser: Nancy Whitehouse

Maryanne Ringuette

Zoology
*The Impact of Parasite Infection on the Toxicity of the Dinoflagellate *Alexandrium spp.**
 Adviser: Elizabeth Harvey

Sophia Rosenthal

Neuroscience and Behavior
The Neural Networks of Implicit-Statistical Learning: A Coordinate-Based Meta-Analysis
 Adviser: Amy Ramage

Kayla Royce

Animal Science
Advancing Research Outcomes and Animal Care: The Impact of the UNH Animal Resource Office
 Adviser: Linnea Morley

Caroline Savage

Wildlife and Conservation Biology
Interactions between Coyotes and Red Foxes across Urban and Wild Habitats
 Adviser: Rem Moll

Daryna Serediuk

Biochemistry, Molecular and Cellular Biology
Comparing the Differences of HSP90 α and HSP90 β in Native Protein Complex Incorporation
 Adviser: Feixia Chu

Aastha Shah

Biochemistry, Molecular and Cellular Biology
Examining How Motivation Impacts Students' AI Use
 Adviser: Melissa Aikens

Shae Shandroff

Biology
*Characterizing the Diets of Striped Bass (*Morone saxatilis*) in Coastal New Hampshire Waters through "Snapshot" Stomach Content Analyses*
 Adviser: Nathan Furey

Neha Sharma

Neuroscience and Behavior
Beyond Best Practices: The Intersections of Educator Wellness and Infant Feeding Practices in Early Childhood Education
 Adviser: Noereem Mena

Colin Sheehan

Marine, Estuarine and Freshwater Biology
*Think Fast: Effects of Intermittent Fasting Regime on Growth of Zebrafish (*Danio rerio*)*
 Adviser: Karolina Kwasek

Kaitlyn Shelley

Biology
Spartina alterniflora in Bio-Restoration Integrated Coastal Substrate (BRICS) restoring the New England Coastline
 Adviser: Md Sazan Rahman

Elizabeth Shilova

Biochemistry, Molecular and Cellular Biology
Effects of Curcumin and Trichostatin A on Salamander Lens Regeneration
 Adviser: Konstantinos Sousounis

Kaylee Shippis

Biomedical Science
*2D vs. 3D Modalities to Assess Lens Regeneration in *Pleurodeles waltl**
 Adviser: Konstantinos Sousounis

Alexandra Shore

Environmental Sciences
*Retention Time of Microplastics in the Purple Sea Urchin (*Arbacia punctulata*)*
 Adviser: Wilfred Wollheim

Ingrid Siudzinski

Wildlife and Conservation Biology
*Spatial Variation and Seasonal Dynamics of Spiny Water Flea (*Bythotrephes longimanus*) in Alton Bay, Lake Winnepesaukee, NH*
 Adviser: Amanda McQuaid

Danielle Slater

Marine, Estuarine and Freshwater Biology
*Replacement of Fishmeal with Green Crab (*Carcinus maenas*) in Zebrafish (*Danio rerio*) Diets*
 Adviser: Karolina Kwasek

Teagan Smith

Ecogastronomy, Sustainable Agriculture and Food Systems
Diversifying New England Fruit Crops
 Advisers: Nicole French-Wollen, Rebecca Sideman

Diana Stafford

Environmental Sciences
Influence of Fertilizer Application Strategy on the Strength of Nitrogen Stabilization as Mineral-Associated Organic Matter in Agricultural Soils
 Adviser: A. Stuart Grandy

Phaedra Stemp

Genetics
Effects of VOCs Produced by Temperature-Adapted Microbes on Duckweed Growth
 Adviser: Anna O'Brien

Fisk Stewart

Zoology
An Exploration of the Ichneumonid Wasps of College Woods
 Adviser: Istvan Miko

Calla Streeter

Wildlife and Conservation Biology
Chitchat in the Desert: Effectiveness of Signage to Reduce Noise Pollution in Vulnerable Bird Habitat
 Adviser: Lauren Ferguson

William Stuckwisch

Animal Science
Using the Plasma Dose Response Method to Determine the Bioavailability of NHU
 Adviser: Nancy Whitehouse

Esher Swanson

Marine, Estuarine and Freshwater Biology, Sustainability
Playing with Sea Monkeys: An Examination of the Use of Decapsulated Artemia as a Means of Improving Current Zebrafish Culture Practices
 Adviser: Karolina Kwasek

Olivia Tatro

Biology
Gene Gain and Loss Inform the Evolution of Cnidocytes and Lineage-Specific Traits in Cnidaria
 Advisers: Sabrina Pankey, David Plachetzki

Amber Tomasino

Sustainable Agriculture and Food Systems
*Multi-Year Comparison of Fig (*Ficus carica*) Cultivar Performance in New Hampshire High Tunnel Systems*
 Adviser: Rebecca Sideman

Jessica Urlage

Environmental Sciences
*Seasonal Succession of Plankton Communities in the Broads of Lake Winnepesaukee: The Importance of Continued Monitoring in the Wake of the Invasion of *Bythotrephes longimanus**
 Adviser: Amanda McQuaid

Caitlin Valerian

Biomedical Science
Microplastics Induce Inflammation in Human Cells
 Adviser: Sherine Elsawa

Branaly Varela

Marine, Estuarine and Freshwater Biology
Impact of Water Turbidity on Feeding Behavior and Toxin Accumulation in Bivalves
 Adviser: Brittany Jellison

Ria Varki

Biochemistry, Molecular and Cellular Biology
*Protein Isolation of the SET Domain of AP2VIIa-7 in *Toxoplasma gondii**
 Adviser: Vicki Jeffers

Joshua Villeneuve

Biomedical Science
The Impact of Plant-Derived Estrogens on Ovarian Protein Structure and Function
 Adviser: Paul Tsang

Autumn Vincze

Animal Science
Effect of Dam Probiotic Supplementation on Colostrum and Immunoglobulin Absorption in Neonatal Dairy Calves
 Adviser: Peter Erickson

Matthew Weisse

Marine, Estuarine and Freshwater Biology
*Impact of Noise and Temperature on Blue Mussel (*Mytilus edulis*) Larval Growth and Settlement*
 Adviser: Brittany Jellison

Geni Whipple

Biomedical Science
Comparison of the Gut Microbiomes of Captive-Bred versus Wild New England Cottontails
 Advisers: Cassidy Dietz, Adrienne Kovach, Kris Wojtusik

Rachel Widrig

Zoology
Analysis of Brook Trout Habitat Quality Using Drift Foraging Models
 Adviser: Nathan Furey

Ryan Wisdom

Marine, Estuarine and Freshwater Biology
Mud Weight and Worm Presence as an Indicator for Oyster Mortality
 Adviser: Melissa Aikens

Lucia Wondal

Environmental Conservation and Sustainability
Public Acceptance of Climate Change Policies across Diverse Populations
 Advisers: Constantine Spandagos, Catherine Taylor

Peter T. Paul College of Business and Economics First-Year Innovation and Research Experience (FIRE) URC

Poster Presentations & Oral Presentations

Saturday, April 25
9 a.m.–4 p.m.
Paul College

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: Conservation**Team: Dirty 30**

Adviser: Kelsey Marin

Alec Adorno**Miriam Doumit****Bruce LaPierre****Zac Sirois****Christopher Truman**

Finance

Chloe Bremberg**Hannah Durakovic****Coco Silverstein**

Business Administration: Marketing

Grace Etkin**Keegan Foote**

Business Administration: Management

Alex Fooa**Felipe Peres Diniz**

Business Administration

Arianna Grosky**Katherine Laflamme****Nick Marquis****Dylan Simino**

Business Administration: Accounting

Cooper Jacques**JJ Luchette**

Undeclared

Kaleb Kennedy

Business Administration: International

Business and Economics

Team: Joe Montana

Adviser: Alex Carroll

Rowan Arndt**Jack Duperre**

Business Administration: Management

Chris Averso**Jake Bailey****Benjamin Barnhill****Mark Belkin****Austin Campbell****Casey Dobbelaer****Kayla Haydock****Madelyn O'Neill****Thomas Rees****Megan True**

Finance

Catherine Cronin**Lucas Da Cunha**

Undeclared

Chase Lawler**Bella Martins**

Business Administration: Marketing

Teegan Plowden-Wardlaw

Business Administration

Grace Schafermeyer**Alexander Shaw**

Business Administration: Accounting

Bryce Williams

Business Administration: Entrepreneurial

Studies

Team: 23 Jeff Street

Adviser: Jeff Stanley

Logan Barka**Nyah Jernberg****Izzy Rivet**

Business Administration: Marketing

Hannah Barker**Devin OBrien****Riley Postage**

Business Administration: Management

Bill Dewitte

Business Administration

PJ Fortin

Economics

Brayden Jakubowski**Jordan Robito**

Business Administration: Entrepreneurial

Studies

Jack Maye**James Patchen**

Business Administration: Finance

Nate Scanlon

Analytical Economics

Team: Jamie's Kittens

Adviser: Jamie Constantino

Sayde Blanchette**Elizabeth Dean**

Business Administration

Dylan Brown**Andrew Byrne****Austin Dono****Paul Giblin****Kathryn Haskell****Reid Irwin****Bradyn Lopes****Aiden McGuigan****Lily Nutter****Jack Smith**

Finance

Max Cerimeli

Business Administration: Management

Grace Desrosiers**Olivia Kozak****Eliza Meuse****Sophia Sprague**

Business Administration: Marketing

Walter Merrill

Undeclared

Aubri Richard

Business Administration: Entrepreneurial Studies

Jackson Roundy

Business Administration: Information Systems and Business Analytics

Team: \$GMoney\$

Adviser: Gavin Knudsen

Shawn Boudreau**Cameron Brown****Gunner Burnham****Chloe Burson****Jackson Daw****Amy Demaine****Alex Dyer****Cole Fitzpatrick****Luke Githinji****Eli Gregory****Max Krutchkoff****Lexi MacKinnon****Cayden Mahon****James McGoldrick****Spencer Prusakowski****Gavin Schwab****Will Suchocki-Sulborski****Ayla Tibbetts****Beckham Zizza**

Pre-Business Path to PAUL

Team: Double Deuce

Adviser: Colby West

Brenden Casey**Sam Naggar**

Business Administration: Hospitality Management

Jake Dearth**Caden True**

Business Administration: Management

Gunther Fehrenbach**Olivia Wilcox****Ryan Zumbach**

Undeclared

Gunnar Garfield

Business Administration: Entrepreneurial Studies

Isabelle Gauvin**Dawson MacDonald****Coen Monahan****Roman Mosher****Libby Nadeau****Gage Richard**

Finance

Charlotte Holmes

Business Administration: Accounting

Drew Laplante

Business Administration

Maddox Moore**Jack Stepanian**

Business Administration: Marketing

Torin Saunders

Business Administration: Information Systems and Business Analytics

Grand Challenge: Healthcare**Team: 1738**

Adviser: Jillian Pacheco

Samantha Beegan

Mackenzie Demers

Claire Nordling

Business Administration

Jillian Bossler

Andrew Fraulo

Molly Fuller

Jackson Gordon

Kiley Willett

Business Administration: Marketing

William Chiasson

Jack Duffey

Finance

Javier Goodwin

Liam Kennedy

Brian LeMauk

Chase Royal

Makenna Schultz

Business Administration: Accounting

Riley Neeb

Undeclared

Daniel Reid

Business Administration: Hospitality
Management

Cole Seitz

Business Administration: Management

Team: Nightmare Rotation

Adviser: Axanthic Sommese

James Bellmore

Dominic Calandrella

Aidan Frary

Timothy Frigiani

Andrew Grossman

Logan Harrington

Blake Thompson

Finance

Sarah Bryson

Jack Daly

Brady Friend

Allison Haley

James Looney

Brady Twombly

Undeclared

Sam Garrity

Harry Goodburn

Business Administration: Accounting

Madelyn Gorney

Business Administration

Lilly Milligan

Business Administration: Management

Gylissa Nieves

Mackenzie Pelosi

Business Administration: Marketing

Team: Landon's Lagoon

Adviser: Landon Sprague

Oliver Berardino

Gavin Mitchell

Tej Patel

Claire Wagner

Finance

Luca Bianchi

Charlie Dulac

William Hartford

Tommy Ho

Business Administration

Hannah Birdsong

Aiden Ham

Business Administration: Accounting

Ryleigh Boucher

Natalia Cafarelli

Business Administration: Marketing

Miles Butson

Joey Galli

Tommy Regan

Business Administration: Management

Matthew Martin

Norah Miller

Undeclared

Team: ChatG15

Adviser: Elizabeth Walent

Tyler Byrne

Camden DeAngelis

Krystian Lic

Business Administration

Dominic Conforti

Emily Fadrigon

Bella Valliere

Business Administration: Entrepreneurial
Studies

Maeve Cusack

Tyler Fennelly

Sophie Kennett

Tommy O'Neill

Undeclared

Jacob D'Addona

Evelyn Hardy

Business Administration: Management

Brenden Downey

Liam Lambert

Brian Riccio

Finance

Tessa Loughlin

Alana Nowosad

Business Administration: Marketing

Patrick Walton

Business Administration: Accounting

Team: Team Love

Adviser: Annie Connolly

Dan Byrne**Katharine Mercier**

Business Administration: Marketing

Justin Cook**Christian Davey**

Business Administration

Bella Cowles**Anna Stailey**

Business Administration: Hospitality

Management

Reeve Generali**Grace LaRose****Charlie Monteiro****Venecia Oldfield**

Business Administration: Management

Bryant Guilbert**Nate MacGregor****Ryan Mischel**

Undeclared

Kaleigh Hayes

Business Administration: Supply Chain

Management

Ethan Ilberg**James McKane****Christian Miller**

Finance

Samantha Mullaney

Business Administration: Accounting

Grand Challenge: Lifestyle**Team: Better Call Paul**

Adviser: Bradyn Shaw

Laura Adams**Deeba Ajamian****Marco Diaz-Frances****Alexa Zaimes**

Economics

Ava Barth**Alexandra Becker****Zach Campbell****Adalynn Carreiro****Warren Farley****Liam Gervickas****Albie Krug****Nicholas Santiago****Nate Vardaro**

Analytical Economics

Max Butson**Brady Church****Margaret Dowd****Megan Gaklik****Ronan Gately**

Undeclared

Jackson Cameron**Dylan Smith**

Finance

Team: Seal Team 6

Adviser: Kyra Dumas

Christopher Adams**Luke Antonetti****Brady Ault****Max Hayes****Dylan Hooper****Jackson O'Brien****Jameson Seaman****Jack Wernig**

Finance

Joshua Berry**William Bertoncini**

Business Administration: Entrepreneurial

Studies

Jack Brennan**Aidan Cronin****Ben Kelly**

Undeclared

Adam Conklin

Business Administration: Accounting

Olivia Cummings**Seth O'Donnell****Ella Pesce**

Business Administration: Marketing

Ava Cunningham

Business Administration: Management

Israel Faraja

Economics

Team: Ben There Paul That

Adviser: Benjamin Smith

Lilah AllenBusiness Administration: Hospitality
Management**Carter Bell****Tyler Bland****Mason Sartor****Sam Stansfield****Benjamin Tousignant**

Finance

Clara Buban**Jake Costa**

Undeclared

Emily Chalice-Throop

Business Administration

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Business Administration: Accounting

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

Championship Round

Tuesday, May 5

1–6:15 p.m.

Paul College

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 2026 URC happen.

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Liz Wade, Interdisciplinary Science &
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