

URC 2025 AWARDS OF EXCELLENCE

All Colleges Undergraduate Research Symposium - Oral Session A, April 25, 2025				
Student Name	Class	Major/s	Faculty Adviser	Title of Presentation
Emily Abrusci	Senior	Environmental Conservation and Sustainability	Daniel Winans	The Cost of Local: Exploring Food Affordability on the NH Seacoast
Jasper Billingsley	Junior	Anthropology	Svetlana Peshkova	Anthropology of Islam
Jamie Corr	Senior	Communication	Renee Heath	The Problem with Pumping: Legislation, Enforcement and Workplace Discrimination among Breastfeeding Mothers
Jenna Loporcaro	Senior	Biochemistry, Molecular and Cellular Biology	Konstantinos Sousounis	Histone Deacetylase Inhibition Represses Lens Regeneration in Spanish Ribbed Newts
Jaren Unzen	Junior	International Affairs	Thomas Safford	The Impact of Natural Language Processing on Policymaking
All Colleges Undergraduate Research Symposium - Oral Session B, April 25, 2025				
Student Name	Class	Major/s	Faculty Adviser	Title of Presentation
Gillian Beaver	Senior	Political Science	Thomas Safford	Rethinking International Aid for Sustainable Development
Chase Johnson	Senior	Anthropology	Meghan Howey	Digging Durham: Excavating the Grounds of the University of New Hampshire President's Residence
Emily Komerska	Senior	Neuroscience and Behavior	William Stine	Luminance Contrast Sensitivity in Motion Induced Blindness and Perceptual Filling-In
Abigail Smart	Junior	International Affairs	Alynn Lyon	The Russian Federation at the UN
All Colleges Undergraduate Research Symposium - Oral Session C, April 25, 2025				
Student Name	Class	Major/s	Faculty Adviser	Title of Presentation
Faith Avitabile Andrei Chirila Nev Sanford John Shortis	Senior Junior Senior	Senior Political Science	Jeannie Sowers	Rebuilding Gaza: An Overview of Clean Shelter
Elizabeth Christopher	Junior	Anthropology	Megan Fry, Samantha McCrane	Brooches in Early Medieval Burials in England
Clara Franzoni	Senior	Environmental Conservation and Sustainability	Thomas Safford	The Role of International Ramsar Designations in Coastal Wetland Conservation in Chile
Maria Hagan	Senior	Anthropology	Amy Michael	How the Commerce of Human Remains Dehumanizes the Dead

All Colleges Undergraduate Research Symposium - Poster Session A, April 25, 2025				
Student Name	Class	Major/s	Faculty Adviser	Title of Presentation
Dylan Bradsher-Behra Aria Kleimola Addy Young	Junior	Sport Management and Leadership	Wonjun Choi, Sophia Min	Increasing Brand Visibility through College Sports: A Case Study of SuckerPunch
Tyler Browne	Senior	Psychology	Ellen Cohn	The Influence of Delinquent Peers: How Sub-Types of Peer Delinquency Predict Juvenile Rule-Violating Behaviors
Nicholas Cobb Jacob Cuddire Daniel Khachadourian Will Ten Hope	Junior	Sport Management and Leadership	Wonjun Choi, Sophia Min	Examining Patterns of Corporate Social Responsibility Programs for Sustainability in U.S. ProfessionalSport Leagues
Benjamin Doyle	Sophomore	Political Science	Dante Scala	Voter Support for Federal Public Education Funding
Bridget Green Rose Wallace	Senior	Health Sciences	Sanghee Moon	Striding Into Distraction: the Effects of Smartphone Use on Movement and Cognition
Ahilya Sudarshan Kadba	Senior	Biology	Sherine Elsawa	Investigating the Effect of Epigenetic Therapies on the Tumor Microenvironment
Anna McNulty	Senior	Occupational Therapy	Shelley Mulligan	Interrater Reliability of the Children's Occupational Profile Questionnaire (COPQ)
Emily Mezick	Junior	Homeland Security	Sonic Woytonik	Impact of U.S.-Mexico Border State Laws on Outcomes for Unaccompanied Alien Children
Lilah Read	Senior	Neuroscience and Behavior	Amy Ramage	The Role of the Caudate Head in Implicit Language Learning: Validating the CARM+ Model of Automaticity in Patients with Post-Stroke Aphasia
John Shortis	Senior	Political Science	Cristina Faiver-Serna	What is Fair Representation?: An Analysis of Redistricting and Voting Power
Riley Wilson	Senior	Genetics	Rick Cote	The Effect of RNA Interference on Phosphodiesterase Gene Expression and Phenotypes in the Nematode C.elegans
All Colleges Undergraduate Research Symposium - Poster Session B, April 25, 2025				
Student Name	Class	Major/s	Faculty Adviser	Title of Presentation
Trevor Chapman	Senior	Biochemistry, Molecular and Cellular Biology	Sherine Elsawa	The Role of Activation-Induced Cytidine Deaminase in Class Switching of Waldenstrom's Macroglobulinemia
Gabe Corliss	Sophomore	Political Science	Dante Scala	The Role of Religion in American Attitudes towards Immigration
Hannah Cuvellier	Senior	Biochemistry, Molecular and Cellular Biology	Kyung Jae Jeong	Gelatin-Methacrylated Hyaluronic Acid Microgels for Neural Tissue Generation In Vitro
Ellianna Jordan	Senior	Biomedical Science	Noereem Mena	Examining Dietary Intake of EMS Workers in Southern New Hampshire

Megan MacNeil	Senior	History	Amy Trueworthy	Media Literacy Programs in New Hampshire and Massachusetts Public Schools This Century
Hanna Meier	Senior	Justice Studies	Mary Malone	Child Trafficking and China's One-Child Policy
Noah Mello	Senior	Genetics	Cassidy Dietz, Adrielle Kovach, Will Rumfelt, Kristopher Wojtusik	Investigation of Saltmarsh Sparrow Feeding Behaviors using DNA Metabarcoding of Fecal Samples
Abigail Michaels	Senior	Psychology	April Bailey	Do Domain-General (Person=Man) Biases Intensify Already Biased Representations in Male-Dominated Occupations?
Anna Steele	Junior	Economics	Dante Scala	Understanding American Attitudes toward Paid Maternity Leave
COLSA URC, April 26, 2025				
Student Name	Class	Major/s	Faculty Adviser	Title of Presentation
Frankie Schembri	Senior	Nutrition	Carlota Dao	Associations between Fiber Intake and Gut Microbiota Composition in New Hampshire Hispanic/Latino Adults at Risk for Food Insecurity
Daniel Zogby	Senior	Zoology	Laura Kloepper	Quantifying Temporal Effects on Common Tern Vocalizations
Margo Kamis	Junior	Ecogastronomy, Nutrition	Jesse Stabile Morrell	Examining the Relationship between Skin Carotenoids and Bone Health in Young Adults
Kennedy McGrath Lila Wilkins	Senior Junior	Marine, Estuarine and Freshwater Biology, Sustainability	Karolina Kwasek	Exploring the Effects of Handling Stress on Feed Intake and Growth in Juvenile Zebrafish (Danio rerio)
Hannah Cuvellier	Senior	Biochemistry, Molecular, and Cellular Biology	Kyung Jae Jeong	Gelatin-Methacrylated Hyaluronic Acid Microgels for Neural Tissue Generation In Vitro
Madeleine Hatfield	Junior	Marine, Estuarine, and Freshwater Biology	Karolina Kwasek	Impact of Feeding Frequency on Zebrafish (Danio rerio) Larvae
Nicki Hyslop	Junior	Animal Science	Paul Tsang	Effects of Calcium Ionophore and Thrombin on the Expression of an Angiogenic Inducer in Chinese Hamster Ovarian Cells
Reka Ivanyi	Senior	Biology	David Plachetzki	Lineage Specific Diversification of Vertebrate Antimicrobial Proteins
Maggie Krein	Senior	Environmental Sciences	Shelley Langton-Myers	Climbing Upstream: The Migration Struggle of Diadromous Freshwater Fish in the Hunua Ranges of NZ
Sarah Nicholls	Senior	Biochemistry, Molecular, and Cellular Biology	Matthew MacManes	Using RNA Sequencing to Examine Encephalic Gene Expression in Cactus Mice
Shae Shandroff	First-year	Biology	Nathan Furey	Examination and Identification of the Stomach Contents of Atlantic Cod (Gadus morhua) in the Gulf of Maine

Olivia Tatro	Sophomore	Biology	Cassidy Dietz Kovach	Adrienne	Examining the Extent of Inbreeding Depression in Captive New England Cottontail
Interdisciplinary Science & Engineering (ISE) Symposium, April 23, 2025					
Student Name	Class	Major/s	Faculty Adviser		Title of Presentation
John Kelleher	Senior	Genetics	Sherine Elsawa		Gli3 Effect on Cytokine Expression in Monocyte Cancer Cells
Alicia Veronneau	Senior	Biology	Sherine Elsawa		Characterizing the Lipid and Protein Concentrations in Phytoplankton
Hannah Cuvellier	Senior	Biochemistry, Molecular and Cellular Biology	Sherine Elsawa		Gelatin-Methacrylated Hyaluronic Acid Microgels for Neural Tissue Generation In Vitro
Evan Kennedy	Junior	Bioengineering	Sherine Elsawa		Tuning the Mechanical Properties of Composite Dextran Hydrogels
Matthew Ryan	Sophomore	Bioengineering	Linqing Li		The Impact of Microgravity on Vascular Network Formation
Kylie Armor	Senior	Chemistry	Brittany White-Mathieu		Synthesis and Photophysical Characterization of Imidazolidinone Macrocyclic Chromophores
Forde Kates	Senior	Chemistry	Aylin Aykanat		An Exploration of the Removal of PFAS Through Gamma Cyclodextrin Morphologies
Connor Foley	Senior	Chemistry	Aylin Aykanat		Development and Characterization of Hydrogen Sulfide Releasing Frameworks
Erin McCarthy	Senior	Biochemistry, Molecular and Cellular Biology	Brittany White-Mathieu		Development of a Clickable Probe for Imaging Hydrogen Peroxide in the Bilayer
Rebecca Lahousse	Junior	Chemistry	Aylin Aykanat		Highly Ordered Cyclodextrin-Frameworks For Next Generation PFAS Absorption
Avery Wilson	Senior	Earth Sciences	James Pringle		Analyzing Seasonal Wind Trends and Climate Change Impacts along the East Coast of the United States (1990-2022)
Amelea Hauer	Senior	Earth Sciences	Joel Johnson		Isolating Charcoal in Synthetic Marine Sediments: Refining Carbon Removal Techniques
Maggie Krein	Senior	Environmental Sciences	Jessica Ernakovich		Evaluating the Influence of Microplastics on Soil Microbial Community Composition through DNA Stable Isotope Probing
Zachary Holt	Sophomore	Electrical Engineering	MD Shaad Mahmud		Development of a Low-Cost Non-Dispersive Infrared Spectrometer for Real-Time Nitrous Oxide Detection
Lily Grymko	First-year	Chemistry	John Gibson		2D Modeling of 3D Shapes of a Torso via Corsetry
Nicole Forno	Senior	Applied Mathematics	Adam Boucher		How a Candle Burns: Understanding Combustion Dynamics Using Free Boundary Problems and Phase Change
Alec Mercer	Senior	Mechanical Engineering	Matthew Bersi		3-D Surface Reconstruction of Quasi-Cylindrical Structures Using Panoramic Digital Image Correlation

Torsten Diesel	Junior	Physics	Dr. Fabian Kislal	Improvements to the Technique for Measuring Low-Temperature Scintillation Properties
Aidan Boucher Christopher Boujaoude	Senior	Computer Science Applied Mathematics	Xuanmao Chen, Mark Lyon	Computational Analysis of EEG Waveforms of Mice in Ketamine-Induced Comas
Aidan Boucher Connor Marvin	Senior	Computer Science	Richard Messner	Development of High Precision Microlenses for Enhanced Solar Neutron Tracking
Aidan Boucher Tiarnan Burke-Smith Paxton Dionne Emma Galbraith Murray Mckay Katelyn Otis Trevor Pettigrew Alexander Watkins Brendan Wright Nicolas Zerbinopoulos	Senior Senior Senior Sophomore Senior First-year Senior Senior First-year Senior	Computer Science Mechanical Engineering Computer Engineering Computer Science, Sustainability Ocean Engineering Mechanical Engineering Mechanical Engineering Computer Engineering Mechanical Engineering Computer Engineering	Yuri Rzhano, May-Win Thein	Safe Whale Tag (SWaT): A Low Cost Non-Invasive Whale Tag
Olivia Burnham Sophie Heusser Caitlin McNulty Catey Selby Cole Werfel Quinn Williston	Senior	Environmental Engineering Business Administration Civil Engineering Environmental Engineering, Sustainability Civil Engineering Engineering Physics	Felix Devito	United States Department of Energy Solar Decathlon Design Challenge
Matthew Clement Begum Karabulut Griffen Scogland Jack Shippee Liam Snogles	Senior	Information Technology Computer Science Information Technology Computer Science Computer Science	David Benedetto, Sanghee Moon	Exploring Cognitive Function and Balance through Virtual Reality: Development of the Tower of London and N-Back Test Games
Seth Chartier Marcus Herold Philip Mather Ethan Tillinghast Brian Viscido	Senior	Mechanical Engineering	Ivaylo Nedyalkov	Electric Ultralight Aircraft
Joseph Bailey Will Callery Nathan Facticeau Alex Mills Tatum Vansicklen	Senior	Mechanical Engineering	Ivaylo Nedyalkov	Cog Railway EV-1: Fully Electric Locomotive
Thomas Anderson Katie Bateman Lucas Bernstein Joseph Robinson	Senior	Civil Engineering Environmental Engineering Civil Engineering Environmental Engineering	Matthew Florence, Anthony Puntin	Bromley Mountain Ski Resort Improvements
Thomas Anderson Katie Bateman Lucas Bernstein Thomas Anderson	Senior	Civil Engineering Civil Engineering Environmental Engineering Civil Engineering	Craig Smith, May-Win Thein	ET NavSwarm
Dylan Callahan Erin McDonald Elizabeth Segal Jackie Wolthers	Senior	Electrical Engineering Electrical Engineering Electrical Engineering Computer Engineering	John LaCourse	Nocturnalyze: Real-Time Sleep Disturbance Therapeutic Device
Ty Valley Ryan Bedigian Marlon Pinto Max Sefcik	First-year	Chemical Engineering Bioengineering Chemistry Physics	Linqing Li	Leveraging Mechanical and Biological Properties of Composite Hydrogels to Induce Angiogenesis
Josh Beaulieu Thomas Trumble Jackson Weber Colby Wheeler	Senior	Mechanical Engineering	Juan Carlos Cuevas Bautista	Active Aero and Drag Reduction System for the UNH FSAE Car

Patrick Jackson Corum Nichols Ian Roessler	Senior	Environmental Engineering Civil Engineering Civil Engineering	Jennifer Jacobs, Weiwei Mo	Are Stream Crossings Resilient Enough?
Christopher Boujaoude Emily Russell	Senior	Biomedical Science Applied Mathematics	Xuanmao Chen, Mark Lyon	Computational Analysis of EEG Waveforms of Mice in Ketamine-Induced Comas
Kevin Guzman Velez Connor Marvin	Senior	Computer Engineering	Richard Messner	Development of High Precision Microlenses for Enhanced Solar Neutron Tracking
Paul College URC, April 25, 2025				
Student Name	Class	Major/s	Faculty Adviser	Title of Presentation
Reece Apgar Sam Croteau Aiden Giarnese Logan Patrick	Senior	Analytical Economics, Justice Studies Analytical Economics Economics Analytical Economics	Analytical Aziz Saglam	The New England Energy Market
Eleanor McNamara	First-year	Business Administration	Jennifer Griffith	Analyzing the Effectiveness of ADHD Adjustments in the Workplace
Caeleigh Reger	Senior	Ecogastronomy, Hotel and Hospitality Management	Dan Winans	Saving Grains: Transforming Brewer's Spent Grain into Sustainable Food Solutions
James Webster	Senior	International Business and Economics	Michael Goldberg	Demographics, Deportations, and Debt: How the Trump Administration's Policies Worsen the National Debt in an Aging Nation
University-Wide Undergraduate Sustainability Research Symposium, April 23, 2025				
Student Name	Class	Major/s	Faculty Adviser	Title of Presentation
William Cleaveland Kara Hatafsky Julia Mistretta Reily Tighe	Junior Sophomore Sophomore Junior	Community and Environmental Planning, Sustainability Zoology and Sustainability Community and Environmental Planning Communication and Sustainability,	Betty Woodman	Advancing Accessibility and Sustainability in Transportation Systems
Hannah Albers Emory Bachand Kayla Doan Talia Kay Ella Pardy	Junior Sophomore First-year Junior Junior	Environmental Conservation and Sustainability, Sustainability Business Administration and Sustainability Undeclared Economics, Sustainability Business Administration, Sustainability	Betty Woodman	Sustainable Menstruation
Nicole Oldmeadow	Junior	Animal Science	Drew Conroy	The Controversy of Lifting the Elephant Ivory Trade Ban
Sofia Anestam Laura Karpa Shane McKenna Durga Raga Josh Salowe	Senior Senior Senior Senior Senior	Environmental Engineering, Sustainability Information Systems and Business Analytics, Sustainability Community and Environmental Planning, Sustainability Environmental and Resource Economics, Sustainability Communication, Sustainability	Erin Hale	Decarbonizing the UNH Pool

Anna Hogan	Sophomore	Biochemistry, Molecular, and Cellular Biology	Erin Hale	Quantity and Characterization of Marine Debris across Four Beaches on the Gulf of Maine
Emily Palermo	Junior	Animal Science		
Esher Swanson	Junior	Marine, Esturine, and Freshwater Biology, Sustainability		
Caeleigh Reger	Senior	Hotel and Hospitality Management, Ecogastronomy	Dan Winans	Saving Grains: Transforming Brewer’s Spent Grain into Sustainable Food Solutions
Shane Gleeson	Sophomore	Analytical Economics and Sustainability	Maegan Gagne	Phytoremediation of Lead Contaminated Soil by Golden Bantam Corn
Sophie Hodge	Sophomore	Biomedical Science		