

## URC 2023 AWARDS OF EXCELLENCE

All Colleges Undergraduate Research Symposium - Oral Session A, April 21, 2023				
Student Name	Class	Major/s	Faculty Adviser	Title of Presentation
Brendan Bunnell	Sophomore	Political Science	Chris Reardon	The Senkaku/Diaoyutai Island Controversy and the Balance of Power in Asia
Isabel Cole	Junior	Sustainable Agriculture and Food Systems	Svetlana Peshkova	Indigenous Food Ways
Brian Conti	Senior	Psychology	John Mayer	Critical Thinking: What It Means and Why It Matters
Jon Dickinson	Senior	Political Science	Chris Reardon	U.S. Reliance on Foreign Debt
Danielle Martineau	Senior	Biomedical Science	Ronald Croce	Effect of an Acute Bout of Low-, Moderate-, and High-Intensity Aerobic Exercise on Immediate and Delayed Fractionated Reaction Time
Margaret Sawyer	Senior	International Affairs, Spanish	Thomas Safford Sara Wolper	Selective Remembrance: Spanish-Islamic Heritage in Andalusia
All Colleges Undergraduate Research Symposium - Oral Session B, April 21, 2023				
Student Name	Class	Major/s	Faculty Adviser	Title of Presentation
Luke Botticelli	Senior	Biochemistry, Molecular and Cellular Biology	Feixia Chu	The Embryonic Stem Cell Complexome and Epichaperome
Corilie Green	Senior	English, International Affairs	Alyna Lyon	NATO and International Cyber Defense Efforts
Lydia Osmer	Senior	Communication, English Teaching	Mike Alvarez	Case Study Report: The Five Stages of Death in WandaVision
Amanda Pirani	Junior	English/Journalism, Political Science	Chris Reardon	What Incentivizes Trade Liberalization? Why Developing Countries Transition to More Open Economies
Ginger Schoff	Sophomore	Political Science	Mary Malone	New Caudillos: A Survey-Based Portrait of Democracy in El Salvador and Brazil
Anthony Quiles	Senior	Political Science	Chris Reardon	The Russian Invasion of Ukraine: Putin's Crusade or a War of Opportunity?
Ryan Vona	Sophomore	Political Science	Chris Reardon	Starvation in Communist China

**All Colleges Undergraduate Research Symposium - Oral Session C, April 21, 2023**

<b>Student Name</b>	<b>Class</b>	<b>Major/s</b>	<b>Faculty Adviser</b>	<b>Title of Presentation</b>
Trevor Guilmette Katriana Kivari	Senior Sophomore	Recreation Management and Policy	Brent Bell	Increasing a Sense of Belonging in First Year Students on Outdoor Orientation Programs
Conor Hill	Senior	Political Science	Mary Malone	Populism and Identity in Bolivia: The Effects of the Morales Presidency
Aliya Sarris	Senior	Political Science, Spanish, Women's and Gender Studies	Monica Chiu	An Exploration of Self-Identity in Transracial Adoptees from China
Ashley White	Senior	Communication, Women's and Gender Studies	Joseph Terry	Analyzing the Frame of Empathy in the Black Lives Matter Movement

**All Colleges Undergraduate Research Symposium - Poster Session A, April 21, 2023**

<b>Student Name</b>	<b>Class</b>	<b>Major/s</b>	<b>Faculty Adviser</b>	<b>Title of Presentation</b>
Mikaela Aschbrenner Maxwell Brosmer Celia Lacey Katherine Lorden Abbie Marley Alexis Nichols	Senior Recent Graduate Senior Senior Senior Senior	Kinesiology Biomedical Science Exercise Science Kinesiology Kinesiology Kinesiology	Michael Brian	Does a Higher Level of Cardiorespiratory Fitness Prevent Changes in 24H Glucose Regulation after Transitioning to a Sedentary or Obesogenic Lifestyle in Young Males?
Casey Baumann Olivia Smith	Junior Junior	Genetics Biology	Estelle Hrabek	Correcting a Salt Stress Phenotype in Arabidopsis thaliana Using Hybrid Phosphatase Transgenes
Griffin Delin	Senior	Environmental Conservation and Sustainability, Spanish	Catherine Ashcraft	Investigating the Effectiveness of Ecuadorian Waterfunds through a Lens of Sustainability
Hanna Holmgren	Senior	History, Justice Studies	Robert Eckstein	Tracing the History of Gender Variant People's Relationship to Law Enforcement in the United States
Marcella Wondal	Senior	Social Work	Tarkington Newman Sherri Simmons-Horton	Exploring Life Skill Development and Transfer of Youth Experiencing Homelessness

**All Colleges Undergraduate Research Symposium - Poster Session B, April 21, 2023**

<b>Student Name</b>	<b>Class</b>	<b>Major/s</b>	<b>Faculty Adviser</b>	<b>Title of Presentation</b>
Kelsey Alimandi Hannah Manning	Senior Senior	Biology Biomedical Science	Sergios Charntikov	Individual Behavioral and Neurobiological Markers Associated with Vulnerable to Alcohol Use Phenotype
Kaleb Ducharme	Senior	Neuroscience and Behavior	Omer Daglar Tanrikulu	Ensemble Perception of Depth in Virtual Reality
Samantha El-Massih	Senior	Nursing	Samantha Arnold Kerry Nolte	The Psychosocial Impact of Health Maintenance in Young Adults Who Grew up with Chronic Illness

Sophie Goodwin	Junior	Sociology, Sustainability	Kenneth Johnson	Demographic Change across Subareas of the United States
Taylor Heck Carly Little Aleksandra Misiewicz Emily Roberge Violet Sullivan	Senior Senior Senior Senior Senior	Exercise Science	Michael Brian	Comparison of the Effects of Lean Muscle Mass on Fat Oxidation in Sedentary and Obesogenic Lifestyles
Ashanti Maronie	Senior	Anthropology	Amy Michael	The Role of Race in Bringing Home the Missing
Andrea Pecora	Senior	Biomedical Science	Louis Tisa	Scanning Electron Microscopy of Geodermatophilaceae Rock Colonization
Emily Pratt	Senior	Biochemistry, Molecular and Cellular Biology	Sarah Walker	STAT3 in TNBC Using GSK3 $\beta$ and Integrin Inhibitors
Aashaya Rajbhandari	Senior	Justice Studies, Sociology	Ryan Gibson	Race of Victim and Offender in State Death Penalty Legislation
Amir Robertson Kyra Woodward	Senior Junior	Psychology, Women's and Gender Studies Justice Studies, Psychology	Jolie Woodward	Gender Stereotypes in Categorical Processing Biases for Ambiguous Facial Expressions of Emotion
<b>COLSA URC, April 22, 2023</b>				
<b>Student Name</b>	<b>Class</b>	<b>Major/s</b>	<b>Faculty Adviser</b>	<b>Title of Presentation</b>
Izzy Lopez	Senior	Wildlife and Conservation Biology	Russell Congalton Benjamin Fraser	Evaluating the Use of Unpiloted Aerial Systems to Detect and Monitor Beech Bark Disease in New England Forests
Abby Lebsack	Senior	Animal Science	David Needle	Regional Population Assessment of Eastern Moose using Fecal Parasites and Microbiome
Eleanor Braun	Senior	Sustainable Agriculture and Food Systems	Andrew Conroy	The Prevalence and Impact of Dairy/Beef Crosses on Cattle Producers in New Hampshire and Perspectives of Stakeholders
Casey Baumann Olivia Smith	Junior Junior	Genetics Biology	Estelle Hrabak	Correcting a Salt Stress Phenotype in <i>Arabidopsis thaliana</i> Using Hybrid Phosphatase Transgenes
Tucker White	Senior	Marine, Estuarine, and Freshwater Biology	István Mikó	Cuticular Specializations of <i>Echinophthirius horridus</i>
Sam Comeau	Senior	Marine, Estuarine, and Freshwater Biology	Nathan Furey Aliya Caldwell	Shallow Water Baitfish Assemblages in New Hampshire's Coastal and Estuarine Waters
Nicholas Clarke	Senior	Nutrition	Maria Carlota Dao	Cross-Sector Assessment of Multi-Level Barriers to Nutrition Access
Heather Nelson Mark Troiani	Senior Senior	Zoology Wildlife and Conservation Biology	David Steinberg Jennifer Purrenhage Michael Simmons	Seasonal Migration in Red-backed Salamanders ( <i>Plethodon cinereus</i> )

Cameron Banks	Recent Graduate	Biomedical Science	Sherine Elsawa	Induction of Class Switching in Waldenström Macroglobulinemia Cells
Tori Denovellis	Senior	Neuroscience and Behavior	Amy Ramage	Cognitive Control Brain Network Integrity and Language in Post-Stroke Aphasia
<b>Interdisciplinary Science &amp; Engineering (ISE) Symposium, April 19, 2023</b>				
<b>Student Name</b>	<b>Class</b>	<b>ISE Award Category</b>	<b>Faculty Adviser</b>	<b>Title of Presentation</b>
Joshua Berthiaume	Senior	Biology	Vicki Jeffers	Bromodomain Proteins Are Important Epigenetic Regulators in the Parasite Toxoplasma gondii
Matthew Noyer	Senior	Chemical Eng	Nan Yi	Direct Carbon Dioxide Conversion to Methane over Nickel-Based Catalysts
Kelsey MacCallum	Senior	Chemistry	Nate Oldenhuis	Development of 3D Cell Cultures through Noncytotoxic Native Chemical Ligation
Somkene Alakwe	Senior	Chemistry	Nate Oldenhuis	Bioreactor-Based Production and Purification of pDNA and Protein for Materials Science Applications
Matthew Cusano Wyatt Garrett Anna Gombas Ryan McLaughlin Bhargavi Nimoji	Senior Senior Senior Senior Senior	Civil & Env Eng - Design	Anthony Puntin	Haverhill Downtown Redevelopment Project
Meghan Abbey Michael Mercer Jake Morrier George Smith Tim Spencer	Senior Senior Senior Senior Senior	Civil & Env Eng - Investigation	Jo Sias	Transportation Planning US Rt 302 at Intervale Cross Road
James Wood	Junior	Civil & Env Eng - Research	Nancy Kinner	Prediction of Movement of Spilled Oil under Ice
James Msaddi Hunter Remick Oriane Sinclair Kathleen Terwilliger	Senior Senior Senior Senior	CompSci - Applications	David Benedetto Stefan Claesson	Nearview: Aerial Drone Mapping for Environmental Services
Zach Girouard Christopher Hattub Hunter Sansoucie Ben Stone	Senior Senior Senior Senior	CompSci - Data Science	Marek Petrik	Gas and Oil Usage and Predictions

Nicholas French Eli Hartin Joey Heacock Dylan Terenzoni	Senior Senior Senior Senior	CompSci - Systems	David Benedetto	SPAITR Sports Replay Application
Aidan Lutz	Senior	Earth Sciences	Jo Laird	Contact Metamorphism of the Kittery Formation at Cape Neddick, Maine
William Ralston Evan Stenger	Senior Senior	Electrical & Computer Eng	Nicholas Kirsch	Distance and Velocity Measuring Radar
Carson Loughridge	Sophomore	Innovation Scholars	Dean Sullivan	Real-Time Optimization of UNH Bike Share System
Matt Colucci Caleigh D'Angelo Jesse Hight Jessica Jin Jordan LeClair Matt Mouser Amina Nefic Brooke Shepard	Senior Senior Senior Senior Senior Senior Senior Senior	Mechanical Eng - Comp & Clubs	Felix DeVito	U.S. Department of Energy Solar Decathlon
Corey Breault Corey Olson Camden Welch	Senior Senior Senior	Mechanical Eng - Industry	Todd Gross	Northeast Passage Sled Hockey
Matt Eaton	Senior	Mechanical Eng - Research	Jinjin Ha	Development of In-Plane Torsion Testing Fixture and Experiment for Sheet Metal
Aidan Boucher Ethan Danielson Zachary DiCicco Maggie Enderle Christina Karagianis Eli Lemieux Joshua Minard Thomas Oliver Stephanie Rota Mia Seitz	Sophomore Senior Senior Senior Junior Senior Senior Senior Senior Senior	Ocean Engineering	Matthew Plumlee Yuri Rzhanov May-Win Thein	Project MANTA RAY: Ghost Unpiloted Performance Platform Submersible (GUPPS)
Kelly Bisson	Senior	Physics	Marc Lessard	3UCubed: Calibration of Ultraviolet Photomultiplier Tube
<b>Paul College URC, April 21, 2023</b>				
<b>Student Name</b>	<b>Class</b>	<b>Major/s</b>	<b>Faculty Adviser</b>	<b>Title of Presentation</b>
Laura Earle	Junior	Analytical Economics	Robert Mohr	An Economic Analysis of the Regional Greenhouse Gas Initiative (RGGI)
Reshma Giji	Senior	Earth Sciences, Ecogastronomy	Daniel Winans	Pallet to Plate: The Sustainable Life of an Oyster
Connor Kelly	Senior	Analytical Economics	Aziz Saglam	How COVID-19 Has Changed Alcohol Use

Jordan Moyer	Senior	Information Systems and Business Analytics, Sustainability	Jing Wang	ESG Metric Variance and Methodology Standardization
Liam Robinson	Senior	Economics	Reagan Baughman	The Main Causes of Inflation Post-COVID
Bailey Shippee	Junior	Business Administration, Entrepreneurial Studies, Management	Jennifer Griffith	Exploring the Inclusivity of the FIRE Peer Advisors Program
Jack Wixson	Senior	Accounting, Marketing	Yunshil Cha	The Impact of Compensation on Framing on Work Relationships
<b>University-Wide Undergraduate Sustainability Research Symposium, April 19, 2023</b>				
<b>Student Name</b>	<b>Class</b>	<b>Major/s</b>	<b>Faculty Adviser</b>	<b>Title of Presentation</b>
Raeanne Breton Aidan Cadogan Allison Childs Luke Conroy Katie Dold Teddy Evans Daniel Sheehan Madeline Strange	Senior Senior Senior Senior Senior Senior Senior Senior	Ecogastronomy, Entrepreneurial Studies Civil Engineering, Sustainability Ocean Engineering Mechanical Engineering Ocean Engineering Mechanical Engineering Ocean Engineering Environmental Engineering	Erin Bell Erin Hale Martin Wosnik	Swellular - Wave Powered Communications System for First Responders - MECC Competition
Allison Ivers Nora Lucy Ashley Phillips Vanessa Smith	Junior Senior Junior Senior	Entrepreneurial Studies, Marketing Marketing Marketing Marketing	Shuili Du	Stitch N' Save: Making Fashion Sustainable
Brooke Kane Nathan Salas Suzanne Scharff Daisy Young	Senior Senior Junior Senior	Business Administration, Sustainability Environmental Engineering, Sustainability Women's and Gender Studies, Sustainability English, Sustainability	Erin Hale Stacey Purslow	Racial Equity in New Hampshire Farm to School
Matt Oriente	Senior	Information Systems and Business Analytics, Sustainability	Fiona Wilson	An Analysis of Corporate Carbon Reduction Targets
Jason Plant	Senior	Entrepreneurial Studies	Fiona Wilson	Growth Drivers and Inhibitors of the B Corp Movement
Gemma Rose	Senior	Nutrition	Dan Winans	The Benefits and Barriers of Utilizing Local Grains in Baking
Alexandra Vergara	Senior	English Teaching	Jade Chalkley	Changemaker Education and Trash2Treasure: Student Engagement with Sustainability