Showcasing Our Art and Research

SOAR

2019 Program Series
Saint Anselm College
Manchester, NH
April 3 – 30, 2019

SOAR Planning Committee
Erik Cleven, Politics
Meg Cronin, English
Katherine Bentz, Fine Arts
Kathleen Flannery, Psychology
Lori LaPlante, Biology
Carmen McClish, English/Communication
Joshua Tepley, Philosophy
April 3 – 30, 2019

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ABOUT SOAR

The first SOAR event was held in April 2012. What began as a grassroots effort among faculty has turned into a month-long, campus-wide event celebrating undergraduate research, writing, and art presented by students across all majors. This year’s SOAR program series will host three distinguished speakers from the sciences and humanities, music concerts, and five interdisciplinary events: Mind Over Major conference with the Outstanding Student Research Symposium, the Science Poster Session, and the Social Sciences Poster Session.

SOAR’s mission statement: *Fostering excellence in undergraduate scholarship, creative work, and research in the sciences, social sciences and humanities.*

- provides an opportunity for recognizing excellent student works
- encourages and cultivates faculty-student interactions and collaborations
- creates an institutional support structure for undergraduate scholarship
- develops academic and professional skills necessary for students’ future careers and graduate study
- enhances dialogue across disciplines
- creates and sustains a culture of integrity, inquiry, and initiative
- highlights effective undergraduate research models
- benefits a broad spectrum of undergraduates

ACKNOWLEDGEMENTS

The SOAR Committee would like to thank several additional faculty, staff, and departments who generously volunteered time to make the program series a success this year: The Office of the Vice President of Academic Affairs, College Communication and Marketing, the Alva de Mars Megan Chapel Art Center, Carmen McClish, Micky New, Sandi Provencher, Keith Morse, Barbara Bartlett, Molly Lozeau, Andrew Haringer, Sean Parr, Josh Dannin, Kimberly Kersey-Asbury, Karen Boivin, Fr. Iain MacLellan, Maggie Dimock, and Pam Condon. Research presented in the Science Poster Session and the Outstanding Student Research Symposium is supported by NH-INBRE. Presentations supported by other awards are noted in the presentation booklet.
SOAR DISTINGUISHED HUMANITIES SPEAKER:
DR. JESSICA MAIER
Charlie Bondhus

Author of *Divining Bones* (Sundress, 2018) and *All the Heat We Could Carry* (Main Street Rag, 2013), winner of the Thom Gunn Award for Gay Poetry.

Associate Professor of English at Raritan Valley Community College (NJ).

**Wednesday April 24th**
**7:00 p.m.**
**Dana Center, 1D**

*S.O.A.R. Distinguished Artist*

*Showcasing Our Art and Research*

Photo Credit: Kevin Hinkle
Dr. Lauren Alloy
Department of Psychology, Temple University

Thursday, April 25, 2019
1:00 — 2:00pm
Dana 1

“Reward and the Mood Rollercoaster: A Reward Hypersensitivity Perspective on Bipolar Spectrum Disorders”

Dr. Alloy is an internationally recognized researcher in the area of mood disorders, with over 350 scholarly publications. Along with her colleagues, she developed the hopelessness theory of depression, and more recently, a reward hypersensitivity theory and an integrated reward and circadian rhythm dysregulation theory of bipolar disorder.
# SOAR PROGRAM EVENTS AND SCHEDULE

## WEDNESDAY
### APRIL 3

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<th>Time</th>
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<tr>
<td>12:30 – 1:30 pm</td>
<td>Common Hour Music Concert</td>
<td>Koonz Theatre Dana Center</td>
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*Featuring Music Performance Program Students*

## THURSDAY
### APRIL 4

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<tr>
<td>4:30 – 5:30 pm</td>
<td>SOAR Distinguished Humanities Speaker</td>
<td>Chapel Art Center</td>
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### DR. JESSICA MAIER
Mount Holyoke College

*Tracing History through Maps: The Case of Rome, the Eternal City*

Dr. Jessica Maier, Associate Professor of Art History, presents a lecture tracing the city of Rome’s evolution through maps and views that illustrate not only the city’s physical transformations, but also how ideas about Rome have changed over time. This lecture is presented as part of the Fine Arts Series, a collaboration between the Chapel Art Center and the Fine Arts Department at Saint Anselm College, with support of the SOAR Program.
Annual Beta Beta Beta induction ceremony. Eligible juniors and seniors will be inducted into the Chi Zeta chapter. 2019 Beta Beta Beta Officers running this year’s ceremony:

Felipe Bispo (Biology ‘19) - President
Taylor Ferraro (Biology ‘19) - Historian/Escort
Virginia Lauzon (Biology ‘19) - Secretary

List of 2019 Inductees into the Chi Zeta Chapter of Beta Beta Beta:

- Caroline Cardosa (Natural Sciences ‘20)
- Emma Daly (Natural Sciences ‘19)
- Jamie Dee (Biochemistry ‘20)
- Amanda Desimone (Natural Sciences ‘20)
- Emily Falanga (Biology ‘20)
- Marianne Greene (Biology ‘20)
- Paige Labelle (Biochemistry ‘20)
- Kiley Larocque (Biology ‘20)
- Shannon McAdam (Biology ‘20)
- Roshelle Morrison (Biochemistry ‘20)
- Rebecca Olson (Biology ‘20)
- Amanda Pageau (Biology ‘20)
- Lucas Romano (Biology ‘20)
- Sean Verrier (Biology ‘20)
- Alix Willett (Biology ‘19)
- Joseph M. Young (Environmental Science ‘20)

Following the induction ceremony, research presentations will be given by two Beta Beta Beta members:

Nathaniel Shannon (Biochemistry ‘19): “Investigating the Instability of Ribosomal DNA in Schizosaccharomyces pombe”

Joseph M. Young (Environmental Science ‘20): TBA
THURSDAY
APRIL 11

3:00 – 5:30 pm
Fine Arts Senior Thesis Exhibitions
Opening Reception
Dana Center
Alcove Galleries

A reception celebrating the opening of the Fine Arts Senior Thesis Exhibitions

On View
April 11 – May 10
Fine Arts Senior Thesis Exhibitions
Dana Center
Alcove Galleries

Featuring work by Fine Arts Seniors
Emmanuel Akinlosotu, Meghan Birkmeyer,
Emily Gaita, and Madison Tager
Mind Over Major is an on-campus, interdisciplinary conference recognizing excellent work by students in all disciplines. The conference provides an opportunity for students to present their ideas and research and seeks to foster interdisciplinary dialogue and intellectual discourse outside the classroom. Each year students present their research or perspectives on scientific, artistic, literary, social, political, philosophical, religious, cultural, and technological ideas.

Panel: Unfinished Business: Issues in Female Inequality

- **Ariana Smith** (Politics, 2019), “From Coverture to CEO: The History of Women in Business”
- **Kelsey Warner** (History and English, 2019), “Gender, Virginity, and Reputation”
- **Dena Miller** (History, 2020), “Hysterical: The Unequal Treatment of Women in Health Care”

Panel: The Power and Perils of Doing Research in Women’s History

- **Dominique Engle** (Undeclared, 2022) and **Caroline Rohan** (History, 2021), “Researching Suffragist Mary K. Wood of RI”
- **Natasha Leveille** (Nursing, 2019), “Researching Suffragist Mrs. L.E. Alfred, Newport, RI”
- **Morgan Sweeney** (Behavioral Neuroscience, 2021), “Researching Suffragist Mary E. Quimby, Concord, NH”
Panel: Communication Research: Digital Play & Digital Activism

- **Nick Federle** (Communication, 2019), “I don’t care about your fantasy football team’: Exploring Engagement Between Fans and Players”
- **Brian Cameron** (Communication, 2019), “The NHL’s Hidden Mystery: Highlight the Truth About Concussions”
- **Matthew Panneton** (Communication, 2020), “Living on the Web”
- **Bridgette Evans** (Communication and Fine Arts, 2019), “Your Likes are My Drug”
- **Anthony Vezza** (Communication, 2019), “Send Rescue: The Online and Formal Techniques of International Justice Mission and Novo’s Activist Film, *The Deep Place*”

Panel: Communication Research: Representing Gender & Sexuality in the Media

- **Erin Kodis** (Communication, 2019), “Anne Shirley-Cuthbert: Feminist Icon or Static Character?”
- **Meredith Piela** (Communication, 2019), “Inequality in the Office: How the Television Show *Younger* Depicts Gender and Age Discrimination in the Workplace”
- **Nicolette Theroux** (Communication, 2019), "How Gay Men are Represented in LGBTQ Magazines in the United States, United Kingdom, and Australia"

Panel: Peace and Justice Issues: from the Local to the Global

- **Sara Pearson** (Peace and Justice Studies, 2019), “Faith based groups: Debilitating to the Sex Industry in Thailand”

Panel: Exploring Criminal Behaviors

- **Cara Onyski** (Criminal Justice, 2019), “Fire and Young People: Not a Great Match”
- **Kyleigh Good** (Criminal Justice, 2019), “Crime Community Connections”
- **Erin Lally** (Criminal Justice, 2019), “Profiling Needs of The Female Criminal Offender”
Panel: Screening: *American Samoa—Football Island*


Panel: Feminism in American Literature

- **Jenna Lyons** (English, 2019), “Real Men Fight the Patriarchy: Realism and Masculinity in Lorraine Hansbury’s *A Raisin in the Sun*”
- **Elizabeth Moore** (English and Spanish, 2019), “‘But what is one to do?’: Suppression of Female Discourse in Charlotte Perkins Gilman’s ‘The Yellow Wallpaper’”
- **Abigail Nolan** (English and International Relations, 2019), “Boys will be Boys Good Humans: An Analysis of Intersectionality and Black Masculinity in Alice Walker’s *The Color Purple*”
- **Mariah Tebo** (English and Education Studies, 2019), “Holden Caulfield’s Simultaneous Embodiment and Critique of Society: A Look at Hypocrisy in J.D. Salinger’s *The Catcher in the Rye*”

Panel: *The Golden Compass*

- **Jacob Cohen** (Forensic Science, 2019), “Humanity and Truth in Philip Pullman’s *The Golden Compass*”
- **Elizabeth Rizk** (Computer Science, 2021), “How to Ignore the Cries of Children: The Soul in Philip Pullman’s *The Golden Compass*”

Panel: Research in International Relations: The Effects of Terrorism and Genocide

- **Jenna Kate Bisbee** (International Relations, 2019), “Hitler’s Hand in the 21st Century: How Holocaust Collaboration in the 1940s Shapes Modern Anti-Semitism”
- **Tristan Longley** (International Relations, 2019), “The Effects of Terror Attacks, Unemployment and Asylum Seekers on the Approval of the Front National”
- **Julia Nosel** (International Relations and Criminal Justice, 2019), “Strategies of Violence in Gangs and Terrorist Organizations”
Panel: Research in American Politics: Citizenship, Campaigns, and Media

- **Alexandros Pandazis** (Politics, 2019), “Ascetic Citizenship: A Study of Patristic Charity and Its Place in Politics”
- **Madison Mangels** (Politics, 2019), “#Echo-Chambers, @CrossCuttingConversations, and Political Affiliation: An Empirical Analysis of Political Homophily on Twitter”
- **Kaitlyn Patterson** (Politics, 2019), “Candidate Gender and Media Coverage: An Examination of the 2016 U.S. Presidential Race”

Panel: Research in Comparative Politics and International Relations: Governance and Culture

- **Abigail Konig** (Politics, 2019), “Syria's Diaspora in the Making: An Analysis of the Variation in Middle Eastern Responses to the Syrian Refugee Crisis”

Panel: The CTE Crisis in the NFL and NHL

- **Julia Krutul** (Neuroscience, 2022), “American Football’s Death Toll”
- **Timothy Niemaszyk** (Biology, 2022), “Powerful Denial”
- **Andrew Ebba** (Marketing, 2022), “CTE and Drug Addiction in the NHL”
- **Kilian Hammersmith** (Mathematics, 2022) “CTE and Hockey: The Need to Inform and Change Rules”

Panel: *Diferencias interculturales: España, Latinoamérica y Estados Unidos*

- **Noelle DeCroteau** (Spanish, 2019), “La educación en España: una nueva perspectiva sobre el sistema”
- **Megan Miller** (Peace and Justice Studies and Spanish, 2019), “¿Está en peligro el bienestar de la mujer latinoamericana?”
- **Elizabeth Moore** (English and Spanish, 2019), “Los Estados Unidos: ¿muchas culturas, pero un solo idioma?”
Panel: Writing for Freedom: Studies in Education and Literature

- **Emma Saltsman** (Education Studies, 2020), “Examining the Impact of Phonemic Awareness on a kindergarten ELL Student’s Writing”
- **Kelsey Hammond** (English and Education Studies, 2019), ”Women, Resentment, and Ridicule in Maria Edgeworth's *Castle Rackrent.*”

Panel: Care and Connectedness in Social Work, Nursing, and the Sciences

- **Lexi Stathis** (Nursing, 2019), “Improving Detection of Postpartum Depression”
- **Anna Barrell** (Nursing, 2019), “Maternity Leave and Postpartum Mental Health”
- **Virginia Lauzon** (Biology, 2019), “Are Chimpanzees Capable of Grieving?”

Panel: Charles Dickens and Elizabeth Gaskell: The Significance of the Individual in the Widening Victorian World

- **Christopher Millett** (History and Secondary Education, 2021), ”Wealth in Society- A Plea for the Rich to Support and Uplift the Poor in Charles Dickens's *A Christmas Carol*”
- **Michael Botsch** (English, 2021), “The Role of Children in *A Christmas Carol*”
- **Kelsey Hammond** (English and Secondary Education, 2019), ”The Individual and the Community in Elizabeth Gaskell’s *North and South,*”

Panel: Interdisciplinary Perspectives on Paul the Apostle

- **Alison Walsh** (Nursing, 2022), “Critical Reflections on Paul and Maternal Care”

Panel: Studies in Italian Renaissance Art

- **Adelina Katzounos** (Nursing, 2020), “Saint John the Baptist Iconography: Looking Beyond the Familiar”
- **Kyra Diana LaCour** (Fine Arts, 2020), “Montorsoli, The Ancient Laocoön, and Their Influence on the Art to Follow”
Panel: Literature and Social Criticism

- **Elijah Fish** (Communication and English, 2020), “Corruption and Prisons in Chimamanda Adichie’s *Cell One* and Helon Habila’s *Lomba.*”
- **Manon Nadeau** (English and Secondary Education, 2021), “‘A Grave for the Uppity’: The Cost of Female Self-Esteem in Aphra Behn’s *Oroonoko* and Marlon James’s *The Book of Night Women.*”

Panel: Lucubrations Poetry Workshop: New Voices

- **Em Craig** (Spanish, 2019), “Queer Awakening”
- **Caitlin Lingrey** (Forensic Science, 2019), “Cycles”
- **Cole Crusiel** (English and Philosophy, 2020) “From This Point”
- **Alison Bouchard** (Criminal Justice, 2020), “Blackout”
- **Alexis Richard** (Communication and Theology, 2019), “Galaxies Collide”
- **Haley Lyons** (English, 2019), “Halloween”
- **Elizabeth Valcourt** (Great Books, 2019), “Poetry?”

Panel: Violence and the Resistance Tradition in African and American Literature and Culture

- **Em Craig** (Spanish, 2019), “Dark Romanticism: Manipulating Space to Hide the Africanist Presence”
- **Megan Miller** (Peace & Justice Studies and Spanish, 2019), “An Adichie Manifesto”
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<tr>
<td>6:30–8:00 pm</td>
<td>Outstanding Student Research Symposium</td>
<td>Goulet Science Building</td>
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- **Megan Dillon** (Sociology and Peace and Justice Studies, 2019), “Sundown on the Union: The Transnationalization of Labor and the Future of Unions Under Neoliberalism” (*Albert J. Gordon Summer Research Fellowship*)
- **Kelsey Hammond** (English, 2019), “A Glimpse into the Letters and Writings of Maria Edgeworth” (*Undergraduate Research Fellowship*)
- **Julia Nosel** (Criminal Justice, 2019), “Strategies of Violence in Gangs and Terrorist Organizations” (*Honors Summer Research Grant*)
- **Valerie Pauer** (Nursing, 2019), “Palliative Care Utilization in Patients with Pancreatic Cancer: A Retrospective Chart Review at an Academic Tertiary-Care Center” (*ISURF-Nursing Fellowship*)
- **Nathaniel Shannon** (Biochemistry, 2019), “Investigating the Instability of rDNA in *Schizosaccharomyces pombe*” (*NH-INBRE*)
2018 Outstanding Student Researchers

Sybille Légitime

Madison Vigneault

Catherine Doucette
Welcome
Dr. Jennifer Lucas, Chapter Advisor
Leah Stagnone, Chapter President

Induction
- Presentation of the Certificates
- Swearing of the Oath

Guest Speaker Address
Mr. Aaron Frey
Maine Attorney General
Class of 2001, Politics
Saint Anselm College

Students to be inducted:
Dennis Aveta, 2020
Elise Bouchard, 2019
Grace D’Antuono, 2019
Christina Damian, 2020
Erin Egan, 2020
Jack Landry, 2020
John Little, 2020
Timothy Madsen, 2019
Margaret McSherry, 2020
Thomas Meal, 2020
Nicholas Meissner, 2020
Anthony Mollica, 2020
Hayley Morgan, 2020
Liam O’Rourke, 2019
Matthew Panneton, 2020
James Panzini, 2020
Julianne Plourde, 2020
Emily Provencher, 2020
Rebecca Shea, 2020
Jarrod Solloway, 2020
Matthew Solomon, 2020
Molly Travis, 2020
### WEDNESDAY
### APRIL 17

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<tr>
<td>12:30 – 1:30 pm</td>
<td>Common Hour Concert</td>
<td>Koonz Theatre Dana Center</td>
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*Featuring Music Performance Program Students*

### WEDNESDAY
### APRIL 24

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<tr>
<td>2:00 – 5:00 pm</td>
<td>Social Science Poster Session and Reception</td>
<td>NHIOP Auditorium</td>
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- **Abigail Nolan** (International Relations and English ‘19): "Confident Women, Compassionate Leaders: The Effect of Single-Sex Education on Female Empowerment in Uganda"
- **Abigail Konig** (Politics and English ‘19): "Syria's Diaspora in the Making: An Analysis of the Variation in Middle Eastern Responses to the Syrian Refugee Crisis"
- **Becky Sigman** (Peace and Justice Studies ‘19): "Cherchant Toujours la Paix: Le Système Endogène de la Résolution des Conflits à Batoufam" (or in English) “A Tradition of Peacemaking: The Endogenous System of Conflict Resolution in Batoufam”
- **Jenna Kate Bisbee** (International Relations ‘19): “Hitler's Hand in the 21st Century: How Holocaust Collaboration in the 1940's Shapes Modern Anti-Semitism”
- Cassandra Moran (International Relations ’19): “State-Sponsored Success – State-Sponsored Terrorism, Effective Control, and Success”
- Ryan Dumont (Politics ’19): “Right to Work Legislation- The Passage or Defeat in Modern America”
- Kyle Silva (English and Communication ’20): “Early Weaning and Postpartum Depression: Is there a link?”
- Sarah Pearson (Peace and Justice Studies ’19): “Faith based groups: Debilitating to the Sex Industry in Thailand”
- Madison Mangels (Politics ’19): “#Echo-Chambers, @CrossCuttingConversations, and Political Affiliation: An Empirical Analysis of Political Homophily on Twitter”
- Cara Onyski (Criminal Justice ’19): “The Juvenile Arsonist”
- Kyleigh Good (Criminal Justice ’19): “Crime Community Connection”

| 7:00 – 8:00 pm | SOAR Distinguished Artist: Charlie Bondhus  
Raritan Valley Community College | Dana Center Lecture Hall (1D) |

**Poetry Reading: Divining Bones (2018)**

Charlie Bondhus (Saint Anselm College, 2003) is the author of *All the Heat We Could Carry*, winner of the Thom Gunn Award for Gay Poetry. His work has appeared in Poetry, The Missouri Review, Columbia Journal, Hayden’s Ferry Review, Bellevue Literary Review, Midwest Quarterly, Copper Nickel, and in other journals. He earned his MFA from Goddard College and his Ph.D. in literature from the University of Massachusetts, Amherst. He has received fellowships from the Virginia Center for Creative Arts, the Sundress Academy for the Arts, and the Hawthornden Castle International Retreat for Writers. He is associate professor of English at Raritan Valley Community College (NJ).
Reward and the Mood Rollercoaster: A Reward Hypersensitivity Perspective on Bipolar Spectrum Disorders

Lauren B. Alloy is currently Laura H. Carnell Professor of Psychology and Joseph Wolpe Distinguished Faculty in Psychology at Temple University.

Dr. Alloy is an internationally recognized researcher in the area of mood disorders. Her research focuses on cognitive, psychosocial, developmental, and neurobiological processes in the onset and course of depression and bipolar disorder and has been continuously funded by multiple NIMH R01 grants. Dr. Alloy is the author of over 350 scholarly publications and is in the top 1% of most cited authors in Psychology. Along with her colleagues, Lyn Abramson and Gerald Metalsky, she is the author of the hopelessness theory of depression and she discovered, with Lyn Abramson, the "sadder but wiser" or "depressive realism" effect. More recently, she and her colleagues also developed a reward hypersensitivity theory and an integrated reward and circadian rhythm dysregulation theory of bipolar disorder. She also has published many empirical studies that support these theories of depression and bipolar disorder, including the first studies to predict which adolescents will go on to develop a first onset of depression and bipolar disorder. Thus, her work has major implications for early interventions that might prevent onset or lessen the severity of these debilitating conditions.
Students from the sciences present posters depicting research they have conducted with faculty mentors. Refreshments will be available during the poster presentation.

List of 2019 Presenters (alphabetized by first author):

- **Tiffany Abbondanza** (Psychology '19): Caring for Patients with Cognitive Impairment: An Examination of Institutional Characteristics and Employee Well-being. Advisor: **Elizabeth Rickenbach, Ph.D.**
- **Nicholas Allen** (Chemistry '19) and **Mary Kate Donais, Ph.D.**: Applications of EDXRF Spectroscopy for Field Archeology.
- **Nicholas Allen** (Chemistry '19) and **Mary Kate Donais, Ph.D.**: Elemental Analysis of Etruscan Loom Weights and Roman Mortar using X-Ray Fluorescence.
- **Giovanna Beaulieu** (Forensic Science '19) and **Mary Kate Donais, Ph.D.**: Spectroscopic Analysis of Fabric Dyes from the 19th Century.
- **Felipe Bispo** (Biology ‘19) and **Elizabeth Greguske, Ph.D.**: Characterization of two variants of TOM Bacteriophage.
- **Marie Bonin** (Psychology ‘19): Prevalence of Music in Mood Regulation across Degrees of Emotional Intelligence and Emotion Regulation.
- **Gianna Bowman** (Natural Science ‘19), **Kayla Marrs** (Biology ’19), **J. Mitchell Young** (Environmental Science ‘19) and **Brian K. Penney, PhD.**: Spicule Network Patterns in Dorid Nudibranch Mantle Support Recent Molecular Phylogenies.
- **Michael Breen** (Computer Science, Physics and Mathematics ‘20), **John Pignato** (Computer Science with Business ‘22) and **Adam Albina, Ph.D.**: Assessing Applied Computer Vision in Determination of Crowd Estimation.
- **Abbey L. Cassidy** (Psychology and Criminal Justice ’19): The Addictive Personality: The Effects of Substance Abuse on an Individual’s Personality.
- **Jacob Cohen** (Forensic Science ’19): Extraction of Molecules from Latent Fingerprints. Advisor: **Matthew Hurley, Ph.D.**
● Erin M. Conley (Psychology ’19) and Joseph Troisi, Ph.D.: Effects of Social Enrichment of Isolation on Wheel Running Activity and Body Weight Maintenance (BWM) in Aged Female Rats.

● Chiara Creaghan (Nursing ’19), Deborah McCarter, Ph.D. and Tauna Sisco, Ph.D.: Intent to Breastfeed and Actual Feeding Pattern: Relationship to Postpartum Depression.

● Ashley Cryer (Psychology ’19) and Paul Finn, Ph.D.: The Effects of Therapeutic Riding on Horsemanship and Supporting Skills.

● Caitlin D’Amato (Psychology ’19): The Relationship between Sleep Quality and Cognition under the Influence of Mobile Phone Use.

● Cassidy Diaz (Nursing ’19): Parental Education for Toddlers with Emotional and Behavioral Disorders: Advisors: Kathleen Cahill, Ph.D. and Maureen O’Reilly, Ph.D.

● Samantha Door (Psychology ’19) and Elizabeth Ossoff, Ph.D.: Crime Severities Impact Impressions and Confidence.

● Sara Faigel (Biology ’19) and William G. Ryerson, Ph.D.: Whole body patterns of muscle fiber type in the rat (Rattus norvegicus) and green frog (Lithobates clamitans).


● Miranda Fitzpatrick (Psychology and Theology ’19): Resisting the Urge: A Study on Delay of Gratification and the Smartphone.

● Casey Flanigan (Mathematics and Secondary Education ’19), Margaret O’Connor (Mathematics and Secondary Education, 2019): Math Retention Levels in Higher Education. Advisor: Lauren Sager, Ph.D.


● Liberty N. Gendron (Biology ’19), Dillon C. Zites, Jason R. Gunn, Brian W. Pogue, Ph.D., Thomas A. Shell, Ph.D., Jennifer R. Shell, Ph.D. and Elizabeth Greguske, Ph.D.: Light-Activated Alkylcobalamin Derivatives for Photopharmaceutical Therapy.

● Connor Gilbert (Biology ’19), David Guerra, Ph. D. and Jay Pitocchelli, Ph. D.: Exploring Relationships between Bird Song Characteristics and Satellite Data.

● Katrina E. González (Psychology ’19) and Adam Wenzel, Ph.D.: The Influence of Visual Congruency on Self-Attribution and Dissociation in the Rubber Hand Illusion (RHI).

● Cassidy M. Goulet (Natural Science ’19) and William G. Ryerson, PhD.: Discovery of a new prey-handling behavior in boa constrictors.

● Mary Gray (Psychology ’19): Does Self-Efficacy Impact Creativity and Creative Performance Over Time?

● Cole Hediger (Biochemistry ’19), Shane Devlin (Biochemistry ‘22), Madison Hediger (Biochemistry ‘22), Anh Le (Natural Science ‘20), Julie Duperier (Biology ‘20), Stephen Tobin, Ph.D. and Robert Vallari, Ph.D.: Comparing Protein Expression in Haploid, Diploid, and Aneuploid Yeast (S. Pombe).

● Cole Hediger (Biochemistry ’19), Kaylin Krslovic (Chemistry ’20), James Rolleri (Chemistry ’19), Nathaniel Shannon (Biochemistry ’19), Paul Zayka (Chemistry ’20) and Nicole Eyet, Ph.D.: Understanding Gas Phase Reactions using Computational Chemistry.

● Meghan Kelly (Psychology ’19) and Paul Finn, Ph.D.: Reflections: Self Perception of Body Weight.

● Olivia Krol (Psychology '19) and Maria McKenna, Ph.D.: The Relationship between Parental Communication and College Adjustment.
● Rebecca Laurion (Psychology '19): Enhancing Creativity with Mindfulness.
● Megan Lalonde (Natural Science '19), Nicole DeRoche (Natural Science '18) and Lori LaPlante, Ph.D.: Using scale allografts to measure immunological function in a carotenoid-enhanced diet.
● Virginia Lauzon (Biology '19) and Brian K. Penney, Ph.D.: A protocol for using a Computed Tomography (CT) Scan of a fetal pig (Sus scrofa) as a learning aid in the general biology classroom.
● Mikaela Lawson (Psychology '19) and Paul Finn, Ph.D.: College Students and Daily Perceived Stress Management Through Meditation.
● Jordan Levesque (Psychology '19) and Elizabeth Ossoff, Ph.D.: The Relationship of Social Media on Productivity Levels and Interpersonal Relationships in the Workplace.
● John Maciolek (Forensic Science '19): Application of Mesoporous Silica Nanoparticles to Fire Debris Analysis. Advisor: Matthew Hurley, Ph.D.
● Mahnoor Mahmood (Biology '18) and Elizabeth Greguske, Ph.D.: Isolation and Characterization of Various Phages.
● Mahnoor Mahmood (Biology '18) and Elizabeth Greguske, Ph.D.: Characterization of Various Phages.
● Hung Mai (Computer Science '19), Michael Galiczewski (Computer Science '19): Cognitive Tests with Data Visualization. Advisors: Kathleen Flannery, Ph.D. and Mihaela Malita, Ph.D.
● William Martell (Philosophy and Biology ‘20) and Eric Berry, Ph.D.: Testing Kratky Hydroponics for Cut-Flower Production: Impact of pH on Growth, Flower number, and Chlorophyll in Zinnia elegans var. Dreamland Scarlet Hybrid.
● Megan McCarthy (Nursing '19): Therapeutic Hypothermia Post Cardiac Arrest: Where are the National Standardized Nursing Protocols? Advisor: Carrie MacLeod, Ph.D.
● Cecilia F. Mercadante (Nursing '19): Blessed to be a Part of Their Journey: Working Directly With Patients Who Have Cancer. Advisor: Caryn Sheehan, DNP, RN, ARNP.
● Stephanie Modrak (Psychology '19) and Paul Finn, Ph.D.: Aerobic Exercise: Effects on Youth’s State Mood and Athletic Self-Efficacy.
● Robert Moran (Psychology ’19): The Effect of Environmental Videos on Increasing Cognitive Ability. Advisor: Kathleen Flannery, Ph.D.
● Jordan O’Connor (Psychology ‘19) and Joseph Troisi, Ph.D.: Anxiogenic Effects of Two Different Sleep Patterns in Rats.
● Lauren Packer (Psychology ’19): The Impact of Therapeutic Riding on Self-Efficacy Following Task Performance.
● Ellie Parravano (Psychology ‘19) and Paul Finn, Ph.D.: The Effects of Preferred Music on Motor Skills Performed.
● Valerie D. Pauer (Nursing ’19) and Elizabeth B. McGrath, DNP, APRN, ACHPN Dartmouth-Hitchcock Norris Cotton Cancer Center (Lebanon, NH): Palliative Care Utilization in Patients with Pancreatic Cancer: A Retrospective Chart Review at an Academic Tertiary-Care Center.
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- **Madeline Pratte** (Psychology ’19) and **Adam Wenzel, Ph.D.**: Correlations between Hyperactivity and Artificial Food Colorings.
- **Elizabeth Rizk** (Computer Science ’21), **Brodie Deshaies** (History and English ’21), **Mitchell McLaughlin** (History ’19), **Connor Gilbert** (Biology ’19), **Sean Perrone, Ph.D.**, and **Carol Traynor, Ph.D.**: Spatial and Quantitative Analysis of Benedictine Monasteries in 16th Century Spain.
- **James Rolleri** (Chemistry ’19) and **Carolyn Weinreb, Ph.D.**: Towards the Synthesis of 1,3,5,7-tetraethynyladamantane.
- **Jacob Rostkowski** (Biology ’19), **Amanda Massey** (Natural Science ’19), and **Theresa Dabrucci, Ph.D.**: Thermal Niche Determination of Sunburst Platy, *Xiphophorus maculatus*.
- **Jessa Roy** (Psychology and Criminal Justice ’19), **Elizabeth Ossoff, Ph.D.**, and **Peter Cordella, Ph.D.**: Terror Management Theory and Verdict Decisions: The Impact of Mortality Salience on Assumptions of Guilt.
- **Lucas P. Rushton** (Psychology ’19): The Fall and Rebirth of Humanistic Psychology: A Systematic Review.
- **Madison Scavotto** (Psychology ’19) and **Paul Finn, Ph.D.**: The Effect of State Gratitude on Perception of Sport Injury Adjustment.
- **Emily Scoledge** (Psychology ’19): College Students and Racial Stereotypes of Academic Achievement.
- **Nathaniel Shannon** (Biochemistry ’19), **Joseph Behre III** (Biochemistry ’21), **Lucas Romano** (Biology ’20), **Michael Goddu** (Natural Science ’20) and **Dr. Daniel Broek, Ph.D.**: Investigating the Instability of Ribosomal DNA in *Schizosaccharomyces pombe*.
- **Jennifer Smith** (Computer Science ’21): Coding to the Rescue. Advisor: **Mihaela Malita, Ph.D.**
- **Julia Valine** (Psychology ’19) and **Joseph Troisi, Ph.D.**: The Effects of Estrous Cycle Changes on Drug Discrimination in Female Rats.
- **Jordan Veneri** (Biology ’19) and **Lori LaPlante, Ph.D.**: The Effects of a High Carotenoid Diet on the German Blue Ram.
- **Abigail Walker** (Psychology ’19): The Impact of Societal Conceptions of the Ideal Body on Female Collegiate Athletes.
- **Craig Watkins** (Forensic Science ’19), **Nicole Eyet, Ph.D.**, and **William G. Ryerson, Ph.D.**: Flame Height and Heat Release Rates of Fires Under Varying Environmental Conditions.
- **Elizabeth Wood** (Psychology ’19) and **Elizabeth Ossoff, Ph.D.**: Own-Race Bias: The Effects of Changing Visual Stimuli and Crime Stereotypes.
- **Elise Zarcaro** (Psychology ’20), **Jill Casazza, B.A.** and **Kathleen Flannery, Ph.D.**: The Informed Malignering Effect in Female College Students Feigning a Concussion.
**FRIDAY**  
**APRIL 26**

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<tr>
<th>Time</th>
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<tr>
<td>7:30 pm</td>
<td>Chamber Music Concert</td>
<td>Koontz Theatre</td>
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<td>Dana Center</td>
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*Featuring Students and Faculty*

**MONDAY**  
**APRIL 29**

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<tr>
<td>12:30 – 1:30 pm</td>
<td>Common Hour Concert</td>
<td>Koontz Theatre</td>
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<td>Dana Center</td>
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*Featuring Music Performance Program Students*