



SAINT
ANSELM
COLLEGE



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

Table of Contents

ABOUT SOAR.....	5
ACKNOWLEDGEMENTS.....	5
SOAR Distinguished Humanities Speaker: Dr. Jessica Maier	6
SOAR/Humanities Institute Distinguished Artist: Charlie Bondhus.....	7
SOAR/NH-INBRE Distinguished Speaker: Dr. Lauren Alloy.....	8
SOAR PROGRAM EVENTS AND SCHEDULE	9
SOAR Distinguished Humanities Speaker: Dr. Jessica Maier.....	9
Beta Beta Beta Biological Honor Society Induction Ceremony	10
Fine Arts Senior Thesis Exhibitions and Opening Reception.....	11
Mind Over Major Interdisciplinary Student Conference and Opening Reception	12
Outstanding Student Research Symposium	18
Pi Sigma Alpha Induction Ceremony	20
Common Hour Music Concert	21
Student Common Hour Concert.....	21
Social Science Poster Session and Reception	21
SOAR Distinguished Artist: Charlie Bondhus.....	22
NH-INBRE/SOAR Distinguished Speaker: Dr. Lauren Alloy, Ph.D.	23
Science Poster Session and Reception	24
Chamber Music Concert	28
Student Common Hour Concert.....	28

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.

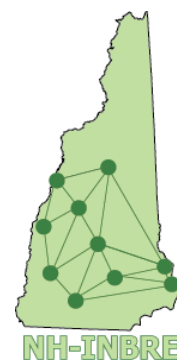
SOAR's mission statement: *Fostering excellence in undergraduate scholarship, creative work, and research in the sciences, social sciences and humanities.*

- 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

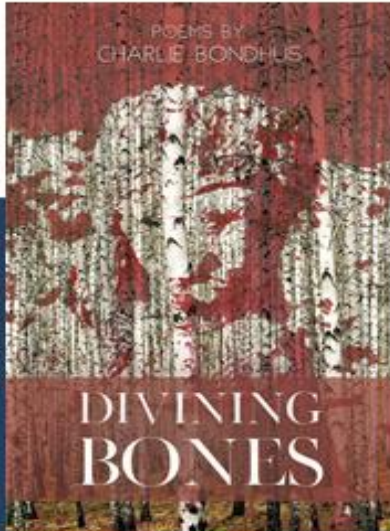
The SOAR Committee would like to thank several additional faculty, staff, and departments who generously volunteered time to make the program series a success this year: The Office of the Vice President of Academic Affairs, College Communication and Marketing, the Alva de Mars Megan Chapel Art Center, 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



Photo Credit: Kevin Hinkle

Showing Our Art and Research



Gregory J. Grappone
HUMANITIES INSTITUTE
Saint Anselm College

SOAR & NH-INBRE

Distinguished Speaker

Dr. Lauren Alloy

Department of Psychology, Temple University



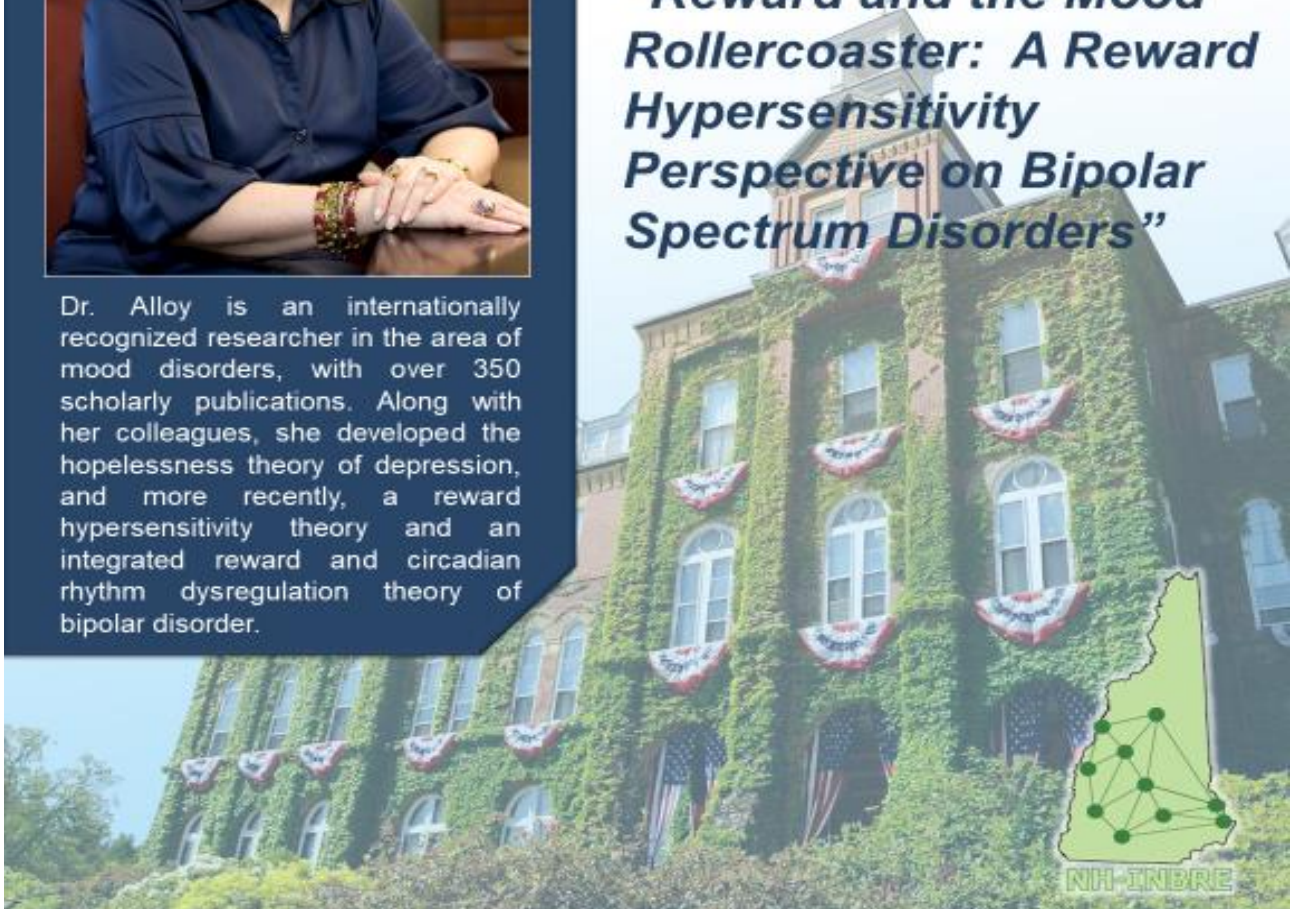
Dr. Alloy is an internationally recognized researcher in the area of mood disorders, with over 350 scholarly publications. Along with her colleagues, she developed the hopelessness theory of depression, and more recently, a reward hypersensitivity theory and an integrated reward and circadian rhythm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

Thursday, April 25, 2019

1:00 — 2:00pm

Dana 1

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



SOAR PROGRAM EVENTS AND SCHEDULE

WEDNESDAY

APRIL 3

12:30 – 1:30 pm	Common Hour Music Concert	Koonz Theatre Dana Center
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Featuring Music Performance Program Students

THURSDAY

APRIL 4

4:30 – 5:30 pm	SOAR Distinguished Humanities Speaker DR. JESSICA MAIER Mount Holyoke College	Chapel Art Center
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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.

**MONDAY
APRIL 8**

5:00 – 6:00 pm	Beta Beta Beta Biological Honor Society Induction Ceremony – Chi Zeta Chapter	Perini Lecture Hall
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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
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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
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*Featuring work by Fine Arts Seniors
Emmanuel Akinlosotu, Meghan Birkmeyer,
Emily Gaita, and Madison Tager*

**FRIDAY
APRIL 12**

2:00–2:25 pm	Mind Over Major Interdisciplinary Student Conference Opening Reception	Goulet Science Building
2:30–6:15 pm	Mind Over Major Interdisciplinary Student Conference Panel Sessions	Goulet Science Building

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”
- **Michael Sweet** (History, 2020), “Researching Suffragist Mrs. M.E. Tucker, Hardwick, VT”

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”
- **Brenna Collins** (Communication, 2019), “Football Stars and Cheerleading Queens: An Analysis of Gender Roles in *Friday Night Lights*”

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

- **Becky Sigman** (Peace and Justice Studies, 2019), “An Evaluation of New Hampshire’s Felony Settlement Conference”
- **Sara Pearson** (Peace and Justice Studies, 2019), “Faith based groups: Debilitating to the Sex Industry in Thailand”
- **Luke Testa** (Sociology, 2019), “The Women of Dho Tarap: Gender Roles, Challenges, and Change in Dolpo, Nepal”
- **Megan Dillon** (Peace and Justice Studies and Sociology, 2019), “Sundown on the Union: The Transnationalization of Labor and the Future of Unions Under Neoliberalism”

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”
- **Jewel Hays** (Criminal Justice, 2019), “Trends of Juvenile Delinquency- A Gender Comparison”

Panel: Screening: *American Samoa—Football Island*

- **Kristen LaBrie** (Chemistry, 2022), “Precedence and Family Shapes Success in ‘American Samoa: Football Island’”
- **Anders Larson** (Undeclared, 2023), “Discipline and Obedience in ‘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*”
- **Paul Zayka** (Chemistry, 2020), “Companionship 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”
- **Cassandra Moran** (International Relations, 2019), “State-Sponsored Success: State-Sponsored Terrorism, Effective Control, and Success”

Panel: Research in American Politics: Citizenship, Campaigns, and Media

- **Leah Stagnone** (Politics, 2019), “Return of the Race Card: Racially Divisive Appeals on Crime in the Presidency of Donald Trump”
- **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”
- **Nicholas Fulchino** (Politics, 2019), “The Buck Stops Where? Analyzing Gubernatorial Influence and Bipartisan Compromise in the State Budget Process”
- **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

- **Grace D’Antuono** (International Relations, 2019), “Show Me the Money: An Analysis of Success Rates of Minority Populations and School District Spending in New Hampshire”
- **Harrison Morin** (International Relations, 2019), “A Cultured International World: The UNESCO World Heritage Convention, States, and Sociocultural and Historical Narrative Reconstruction”
- **Abigail Nolan** (International Relations, 2019), “Confident Women, Compassionate Leaders: The Effect of Single-Sex Education on Female Empowerment in Uganda”
- **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 Niemaszuk** (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

- **Margaret McNeil** (Education Studies, 2019), “Citizens: What Does it Take to Civically Engage Urban Youth?”
- **Emma Saltsman** (Education Studies, 2020), “Examining the Impact of Phonemic Awareness on a kindergarten ELL Student’s Writing”
- **Juliann Guerra** (English, 2019), “Appealing to the Audience: The Changes Made to Washington Irving’s ‘The Legend of Sleepy Hollow’”
- **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”
- **Mackenzie Kewley** (Psychology, 2019), “Explorations in Medical Social Work”
- **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

- **Elisabeth Pope** (English, 2019), “Critical Reflections on Paul and Marriage Relationships”
- **Alison Walsh** (Nursing, 2022), “Critical Reflections on Paul and Maternal Care”
- **Benjamin Vanasse** (Nursing, 2022), “Critical Reflections on Paul and Physical Frailty”

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*.”
- **Ashley Stewart** (Psychology, 2021), “Linh Dinh, Critic of American Hypocrisy and Ignorance.”
- **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

- **Jenna Lyons** (English, 2019), “The Long Way Around”
- **Em Craig** (Spanish, 2019), “Queer Awakening”
- **Caitlin Lingrey** (Forensic Science, 2019), “Cycles”
- **Cole Crusciel** (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”
- **Kyle Silva** (English and Communication, 2020), “Counter-friction: Colin Kaepernick and Thoreau’s ‘Civil Disobedience’”
- **Megan Miller** (Peace & Justice Studies and Spanish, 2019), “An Adichie Manifesto”
- **Becca Shea**, English and Politics, ’20, “Wartime Sexual Violence in Half of a Yellow Sun”

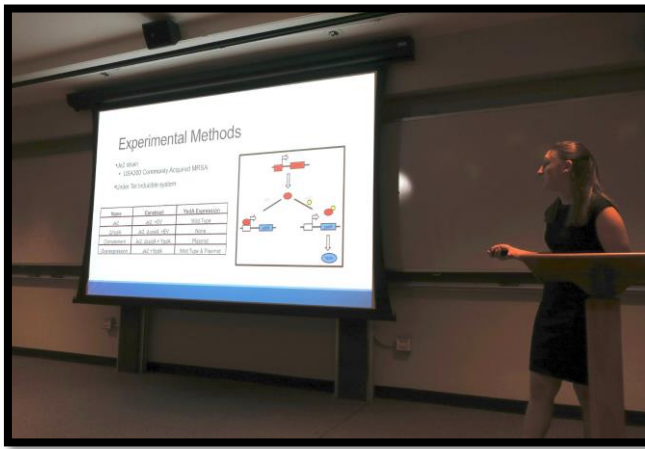
6:30 – 8:00 pm	Outstanding Student Research Symposium	Goulet Science Building
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- **Megan Dillon** (Sociology and Peace and Justice Studies, 2019), “Sundown on the Union: The Transnationalization of Labor and the Future of Unions Under Neoliberalism” (*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*)
- **Katherine Warth** (American Studies, 2021), “Statistical Analysis of the Impact of Postpartum Depression on Breastfeeding Intensity” (*NH-INBRE*)

2018 Outstanding Student Researchers



Sybille Légitime



Madison Vigneault



Catherine Doucette

**MONDAY
APRIL 15**

4:00 – 5:00 pm

**Pi Sigma Alpha Induction Ceremony
Upsilon Lambda Chapter**

NHIOP Auditorium

Welcome

Dr. Jennifer Lucas, Chapter Advisor
Leah Stagnone, Chapter President

Induction

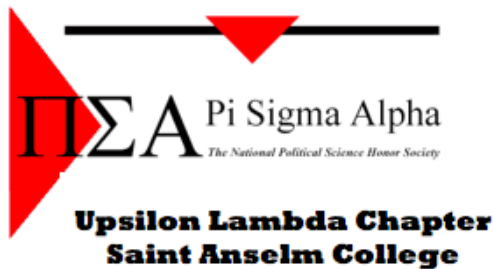
- Presentation of the Certificates
- Swearing of the Oath

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**

12:30 – 1:30 pm	Common Hour Concert	Koonz Theatre Dana Center
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Featuring Music Performance Program Students

**WEDNESDAY
APRIL 24**

12:30 – 1:30 pm	Common Hour Concert	Koonz Theatre Dana Center
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Featuring Music Performance Program Students

2:00 – 5:00 pm	Social Science Poster Session and Reception	NHIOP Auditorium
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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"
- **Leah Stagnone** (Politics '19): "Return of the Race Card: Racially Divisive Appeals on Crime in the Presidency of Donald Trump"
- **Jenna Kate Bisbee** (International Relations '19): "Hitler's Hand in the 21st Century: How Holocaust Collaboration in the 1940's Shapes Modern Anti-Semitism"
- **Luke Testa** (Sociology '19): "The Women of Dho Tarap: Gender Roles, Challenges, and Change in Dolpo, Nepal"

- **Grace D'Antuono** (International Relations '19): "Show Me the Money: An Analysis of the Success Rates of Minority Populations & School District Spending in New Hampshire"
- **Cassandra Moran** (International Relations '19): "State-Sponsored Success – State-Sponsored Terrorism, Effective Control, and Success"
- **Matthew Solomon** (Politics and Peace and Justice '19): "Marsha P. Johnson: A Revolutionary at Play"
- **Ryan Dumont** (Politics '19): "Right to Work Legislation- The Passage or Defeat in Modern America"
- **Katherine Warth** (American Studies '21): "The Impact of Postpartum Depression on Process and Product Breastfeeding"
- **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	<p style="text-align: center;">SOAR Distinguished Artist: Charlie Bondhus</p> <p style="text-align: center;">Raritan Valley Community College</p>	<p style="text-align: center;">Dana Center Lecture Hall (1D)</p>
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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).

**THURSDAY
APRIL 25**

1:00 – 2:00 pm	NH-INBRE/SOAR Distinguished Speaker: Dr. Lauren Alloy, Ph.D. Department of Psychology, Temple University	Dana Center Lecture Hall (1D)
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***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.

3:00 – 5:00 pm	Science Poster Session and Reception	Jean Student Center
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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, Ph.D.**: 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*).
- **Janelle Fassi** (Psychology and Communication '21) and **Elizabeth Rickenbach, Ph.D.**: Is Grandparenting Always Good for your Health? A Proposal of Analysis for Grandparent Caregivers vs. Grandparent Non-caregivers.
- **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.**
- **Margaret Francisco** (Psychology '19): A Connected Community: Social Networking Sites and Social Capital in College Students.
- **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 Roller** (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.
- **Mackenzie Kewley** (Psychology '19), **Adam Wenzel, Ph.D.** and **Paul Finn, Ph.D.**: The Effects of Aerobic Exercise on Mood, Self Efficacy, and BDNF: A Cross Sectional Study of Women.

- **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): Therapeutic Massage: A Complementary Intervention for Oncology Patients. Advisors: **Antonia M. Nelson, Ph.D., RNC-MNN, IBCLC, CNE,** and **Maureen M. O'Reilly Ph.D., RN.**
- **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.
- **Erica Pesci** (Psychology '19): Marketing Effects on Consumer Self-esteem and Emotion.

- **Sarah Poolman** (Psychology '19): Social Comparison and Group Size: Effect on Test Taking Anxiety.
- **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 Dabruzzi, 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**

7:30 pm	Chamber Music Concert	Koontz Theatre Dana Center
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Featuring Students and Faculty

**MONDAY
APRIL 29**

12:30 – 1:30 pm	Common Hour Concert	Koontz Theatre Dana Center
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Featuring Music Performance Program Students

