



RESEARCH & CREATIVE ACHIEVEMENT CONFERENCE 2023

.....
TUESDAY, MAY 2, 2023



MERRIMACK COLLEGE



I want to welcome you to explore
this year's

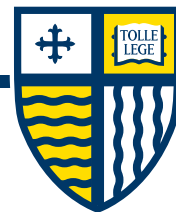
MERRIMACK COLLEGE RESEARCH & CREATIVE ACHIEVEMENT CONFERENCE

The Research and Creative Achievement conference is a celebration of student research and creative endeavors. Drawing upon our Augustinian roots of seeking truth through inquiry and dialogue, this annual conference provides an opportunity for both graduate and undergraduate students to showcase their efforts in expanding knowledge within and across academic disciplines.

Successful academic research requires curiosity, creativity and a willingness to go where the evidence leads. These projects exemplify such efforts. These projects are the fruits of sustained and meaningful collaboration with faculty and fellow students and are often the capstone of a baccalaureate or master's degree program. Many of these projects are informed by and through community partnerships that serve to enrich the scholarship, research and creative activity of our students and faculty. These partnerships are critical to strengthening our institutional mission of fostering civic responsibility, addressing societal issues and contributing to the public good.

We are excited to celebrate our student researchers, faculty collaborators and mentors who have shown resilience in a complicated and challenging time, as it serves as a testament to perseverance, resourcefulness and creativity. Their efforts highlight the importance and value of meaningful inquiry. On behalf of Merrimack College, I applaud the excellent student and faculty scholarship represented here and take great pride in their accomplishments.

- John "Sean" Condon, Ph.D.
Provost and Senior Vice President for Academic Affairs



ACKNOWLEDGEMENTS

The completion of this undertaking could not have been possible without the assistance and participation from so many whose names may not all be enumerated. Their contributions are sincerely appreciated and gratefully acknowledged. We would especially like to express deep appreciation to the faculty and community partners who supported and mentored student research creative achievement during this academic year.

We would also like to acknowledge the Office of the Provost, the Office of Development and Alumni Relations, the Office of Communications, the Center for Excellence in Teaching and Learning, IT, and the RCAC committee for going above and beyond in their support for the 2023 Research & Creative Achievement Conference.



SCHEDULE OF EVENTS

TOLLE LEGE | HELD IN CASCIA HALL

2 P.M. 20th Annual Tolle Lege Reception

An annual celebration of faculty research, presented by McQuade Library

STUDENT RESEARCH & CREATIVE WORK | HELD IN THE MPR

3:30-6 P.M.

Undergraduate and Graduate Student Presentations

ENGINEERING SENIOR DESIGN PRESENTATIONS | HELD AT 530 TURNPIKE ST.

4-6:15 P.M.

Engineering capstone projects allow students to apply their engineering education to solve open-ended, complex engineering problems. We are showcasing the capstone projects from the Civil, Computer, Electrical, and Mechanical Engineering programs.

VISUAL AND PERFORMING ARTS STUDENT EXHIBITION | HELD IN THE ROGERS CENTER FOR THE PERFORMING ARTS AND THE MCCOY GALLERY

3:30-6 P.M.

Celebrates the creativity and hard work of our VPA students majoring in Art and Art History, Music, Theatre and Graphic Design. Participating students are: Nicholas Andriotakis, Danielle Castino, Isabella Collins, Jeffrey Converse, Sahana Gorur, Mary Landers, Charles McGarigle, Lily Seremet, Michael Gravante, Joshua Heath, Em Wood, Jenna Gordon, Allison Hamel, Nicole Martin, Robert Fernandes, Joshua Mendonca, Elise Persicketti, Leanne Santerre, and Kyle Sweeney.



2 P.M.

PRESENTED BY MCQUADE LIBRARY

20TH ANNUAL TOLLE LEGE RECEPTION

In 2003 McQuade Library established the Tolle Lege Collection - a special collection of faculty, staff, student, and alumni published work - to recognize and celebrate the academic scholarship of the Merrimack College community. Each year, authors published during the previous academic year are honored with a reception, and selected contributors speak about their work.

Representing the College's five schools, this year's speakers include the following faculty members:

SCHOOL OF SCIENCE AND ENGINEERING

Development of Research to Inform the Design and Improvement of Mathematics Education for Teachers

Julia St. Goar, Ph.D.

Associate Professor, Mathematics

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WINSTON SCHOOL OF EDUCATION AND SOCIAL POLICY

Lessons from a Study of Cognitive Aging

Ruth McKenzie, Ph.D.

Assistant Professor, Human Development and Human Services

.....

GIRARD SCHOOL OF BUSINESS

An Examination of the Relationship Between Sport Fandom & Physical Health

Aaron Mansfield, Ph.D.

Assistant Professor, Sport Management

.....

SCHOOL OF LIBERAL ARTS

Mechanisms for Change in a School-Based Intervention Program

Gwyne White, Ph.D.

Assistant Professor, Psychology

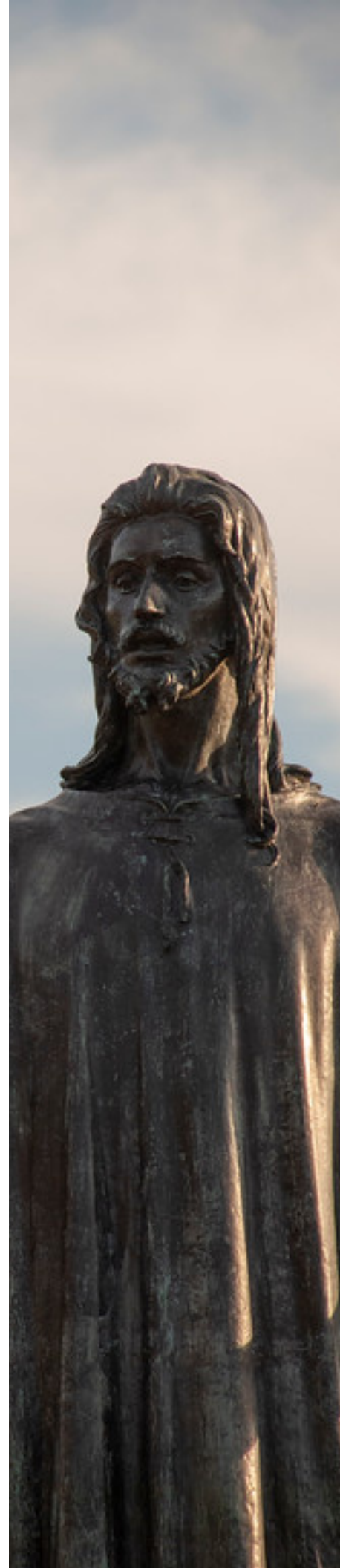
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SCHOOL OF HEALTH SCIENCES

Exercise for the Prevention and Treatment of Chronic Disease

Nicholas SantaBarbara, Ph.D.

Graduate Director and Assistant Clinical Professor, Exercise and Rehabilitation Sciences



3:30 P.M.



UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK: THE SCHOOL OF SCIENCE AND ENGINEERING

1. Cooperative Finance Based Scheduling

Joseph Chalhoub, Graduate

2. The Effect of MAP Kinase Inhibitors in Combination with Clorgyline to Treat Candidiasis Infection

Sarah Montgomery, Jared Smith, Graduate

3. Gut Bacteria of Entomopathogenic Nematode as a Potential Antifungal

Rebecca Kendall, Taelyr Czech, Katelyn Leal, Vanni Morello, Graduate

4. Natural Medicine - The Inhibitory Impacts of Curcumin, Ursolic acid, and Crocetin on Breast Cancer Cells

Makayla Richard, Emmalee Foley, Leonardo Venturotti, Graduate

5. Abundance of Microplastics in Tap vs. Filtered Water

Jenna Dubrule, Hunter Laubstein, Quinn Kellogg, Layan Abdel Karim, Deana Hutcheson, Graduate

6. Investigating The Effect of Curcumin and Ursolic Acid on Mitochondrial Bioenergetic Function

Carlos Reyes, Amanda Clarke, Graduate

7. Assessing the Effect of Certain Plant Metabolites on the Growth and Proliferation of Human Breast Cancer Cells

Lauren Nixdorf, Bridget Shanahan, Graduate

8. Using the Antioxidants Ascorbic Acid, N-Acetyl-L-Cysteine, and Melatonin to Improve Embryo Health in Mice

Maureen Rosenthal, Graduate

9. Molecular Detection of Antibiotic Resistant Bacteria in the Merrimack River

Danielle T. Pintone, Graduate

10. The Inhibitory Impacts of Curcumin, Ursolic acid, and Crocetin on Breast Cancer Cells

Makayla Richard, Leonardo Venturotti, Emmalee Foley, Graduate





UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK (CONTINUED)

11. Analyzing Mimicry Through the Lens of Evolution: A Scientific Literature Review

Nick Tenczar, Undergraduate

12. Middlesex Sheriff's Office

Zachary Fiore, Undergraduate

13. Synthesis of Polyactive Nylon

Sydney Babb, Itzel Guzman, Thavary Hay, Undergraduate

14. Behavioral Effects of Exposure to Silver Nanoparticles at Environmentally Relevant Concentrations in the Siamese Fighting Fish, *Betta splendens* and the Potential Role of Aquatic Plants in Bioremediation

Sedona Gillard, Undergraduate

15. Final Design Presentation

Jake Howlett, Justin Applebee, Jake Festa, Killian Coleman, Andrew Malek, Undergraduate

16. Blue Line Extension West: Dartmouth Street Station

Aiden Coleman, Sean Janerico, Ally Jones, Kelly Redford, Logan Salvi, Undergraduate

17. CEN4901 Senior Engineering Capstone Presentation

John Liddy, Allan Barata, Maddie Vaine, Daniel Fox, Olivia Orlowska, Undergraduate

18. CEN4901 Senior Engineering Capstone Presentation

Ashley Ryan, Undergraduate

19. Mechanical Engineering Senior Design: VEX V5 Robotics Spin Up Competition

Zachary Pond, Brendan Fitzgerald, Kevin Costa, Madysen Wallace, Braden Likhite-Koehler, Undergraduate

20. Physiological Responses of *Lycopersicon esculentum* to Phytohormone Gibberellin

Heather Marszalkowski, Lorena Corbelli, Undergraduate

21. Isolation and Characterization of Mycobacteriophage Milcery

Madison Medeiros, Undergraduate

22. Effects of Curcumin, Ursolic Acid, and Crocetin on MDA-MB-231 and MCF-7 Breast Adenocarcinoma Cells

Makayla Richard, Emmalee Foley, Leonardo Venturotti, Undergraduate

23. Intro to Engineering Wind Turbine Project

Skye Tucker, Nick Beacher, Trey Tankersley, Undergraduate

24. Robobros: VEX Robotics Senior Capstone

Zachary Camino, Rachel Chanley, Ryan Kless, Yash Nandwana, Francisco Quintana, Undergraduate

25. The Winning Wind Turbine

Lydia Melaschenko, Yasmine Qureshi, Mari Leonard, Undergraduate

26. Design Project Capstone Presentation: VEX Robotics

Erik Wunderlich, Modesty Butler, Collin McCabe, Mason Tidd, Nicholas Bordenca, Undergraduate

27. Factors Contributing to Medication Adherence in Patients with Alzheimer's Disease and Related Dementias

Laney Tillman, Undergraduate

28. Abundance of Microplastics in River Water

Jenna Dubrule, Leo Venturotti, Christian Mann, and Victor Privetera, Undergraduate

29. Spectroscopy of Comet C/ 2022 E3 To Determine Which Compounds Are Present

Leonardo Venturotti and Duston Christopher, Undergraduate

30. BIO4081

Sophia Obering, Undergraduate

3:30 P.M.



UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK (CONTINUED)

31. Design, Construction, Testing, and Reconstruction of a VEX-U Competition Robot With a Holonomic Drivetrain

Parker Todd, Austin Kalinowski, Andrew Gardner, Brandon L'Heureux, Sean Maloney, Undergraduate

32. Presentation on My Experience at Lawrence Court Service Center

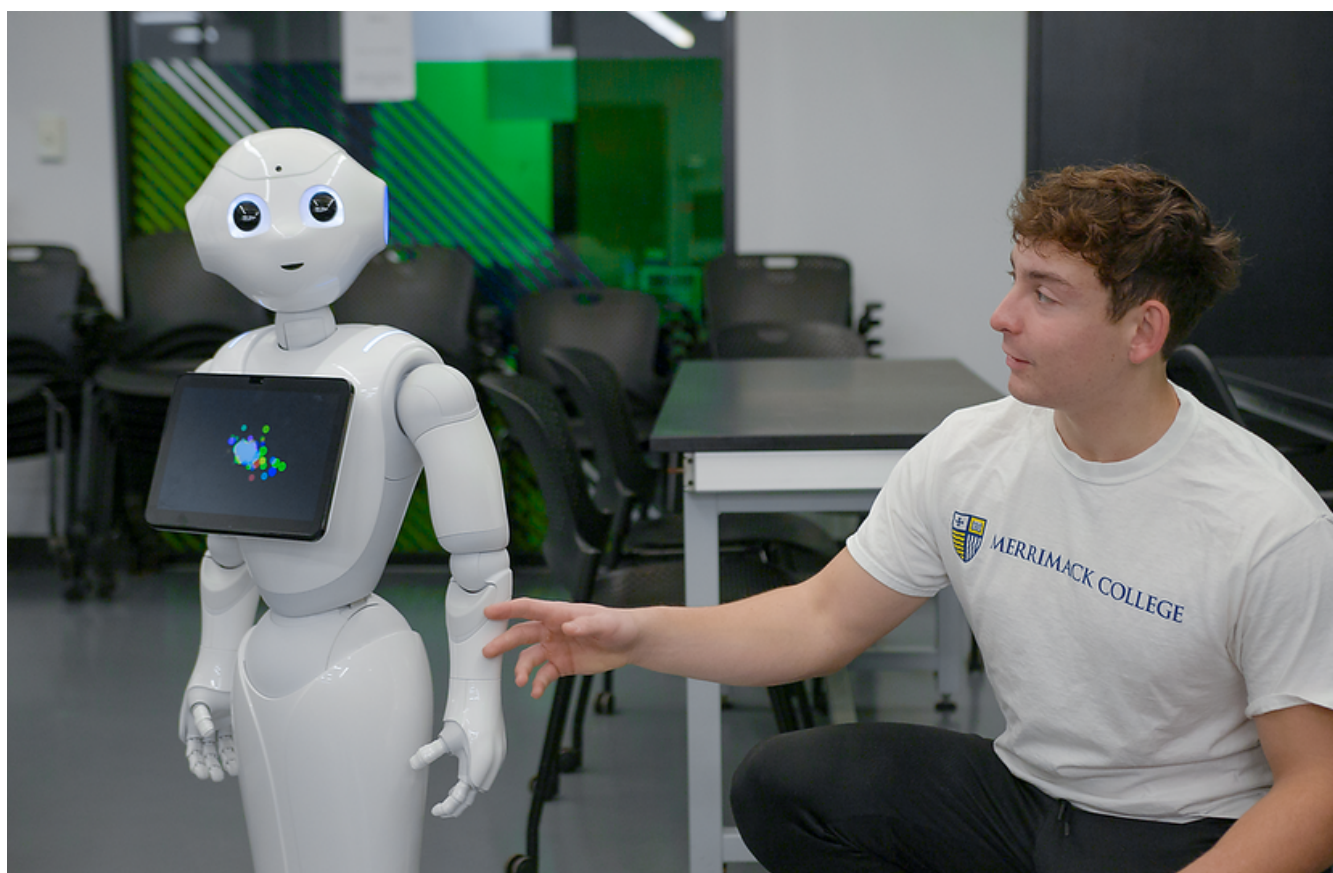
Daniel Tolan, Undergraduate

33. Vex Robot

Molly Murnane, Allyn French, Justin Bettencourt, Drew Hailey, James LeFave, Undergraduate

34. Antioxidant and Antiproliferative Effects of Curcumin, Ursolic Acid, and Crocheting on MDA-MB-231 and MCF-7 Breast Adenocarcinoma Cells

Makayla Richard, Emmalee Foley, Leonardo Venturotti, Dr. Josephine Modica-Napolitano, Dr Azam Noori (Faculty Mentor), Undergraduate



3:30 P.M.



UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK: THE GIRARD SCHOOL OF BUSINESS

35. Merrimack Alternative Investment Fund

*Merrimack Alternative Investment Fund,
Ryan Zollo, Paul Papageorgiou, Graduate*

36. Under Armour: A Strategic Analysis

Kaylee Thomas, Undergraduate

37. Early College Policy Fellow Presentation

Arline Ortiz, Undergraduate

38. Critical Business Analysis of Five Below Inc.

Emma Rotondo, Undergraduate

39. Bitcoin: An Examination of its Classification as a Commodity and the Prospects for Regulatory Frameworks in Light of its Unique Characteristics

Cameron Strong, Undergraduate

40. X-Culture Business Plan: Finnish Schools International

Charlotte Cute, Undergraduate

41. Student Motivation & Learning Strategies in Merrimack College's Undergraduate Program

Ian Woods, Undergraduate

42. Understanding Corporate Social Responsibility at Capri

Ian Woods, Undergraduate

43. Merrimack Investment Fund Performance

*Merrimack Investment Fund,
Undergraduate*

44. Should You Study Abroad with Semester at Sea?

Kiley Martel, Undergraduate

45. Dealing with Attrition: Predictive Modeling and Visualization

John Centofanti, Undergraduate

46. A Strategic Analysis of Home Depot

Samantha Grenier, Undergraduate

47. Predictive Analysis: Employee Attrition

John Centofanti, Undergraduate





UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK: THE SCHOOL OF LIBERAL ARTS

48. The Glue of Society: Why Literature Studies are Essential

Sean Brenner, Undergraduate

49. Transgender People in the Incarceration System and the Impacts It Has on Them Mentally and Physically

Victoria Duff, Undergraduate

50. Feminism and Femininity: The Conflicting Roles of Romance Publishers, Authors, and Novels as Representative of the Feminist Movement

Meghan Zeytoonian, Undergraduate

51. Social Media Influencing Plastic Surgery

Kiera Scott, Undergraduate

52. Happily Ever After: The Influence of Heteronormative Marriage on Queer Love

Madison King, Undergraduate

53. Proposal for Implicit Bias Training for Clinicians

Madelyn Mallaghan, Undergraduate

54. The Bitter Pill: Why No Medical Male Birth Control?

Grace Wilson, Undergraduate

55. Internship at the Virtual Court Service Center

Kaitlyn Collins, Undergraduate

56. Transgender People in the Incarceration System and the Impacts It Has on Them Mentally and Physically

Victoria Duff, Undergraduate

57. Annual Student Exhibition

Nicholas Andriotakis, Danielle Castino, Isabella Collins, Jeffrey Converse, Sahana Gorur, Mary Landers, Charles McGarigle, Lily Seremet, Michael Gravante, Joshua Heath, Em Wood, Jenna Gordon, Allison Hamel, Nicole Martin, Angela Mayes, Robert Fernandes, Joshua Mendonca, Elise Persicketti, Leanne Santerre, Kyle Sweeney, Undergraduate

58. Tips: To Pool or Not To Pool?

Noah Surman, Undergraduate

59. Dogs Make It Better

Alexandra L. Glinsky, Undergraduate

60. Gazing Outside the Box: Does Where We Look Affect our Creative Problem Solving?

Caitlin Wahl, Undergraduate

61. Multi Tasking: Good or Bad?

Hailey Kiley, Alison Hannon, Briana Normandin, Abigail Kraunelis, Undergraduate

62. Multiply Your Ability to Multitask

JaZelle Lampkin, Stephanie Messina, Abigail White, Undergraduate

63. Make Me Think About It

Gabriella Lombardo, Meghan Doyle, Christopher Fruland, Kaitlyn Collins, Undergraduate

64. Race of the Senses: Audio vs Visual Cues

Christopher Sokol, Stephen Landers, Angelina Zampine, Izzy Garcia, Undergraduate

65. Have You Seen Me?: Effects of Deeper Processing on Memory

Sophia Lanzilotti, Kelly Barclay, Emily Burke, Anna McCarthy, Undergraduate

66. Stigma in Mental Health and Likelihood to Seek Help: Gender Differences

Sarah Simpson, Undergraduate

67. Does Multitasking Multiply Reaction Time?

Olivia Snow, Hannah Fitzpatrick, Sarah Simpson, Alethea Keamy, Undergraduate

68. Levels of Memory Processing and Memory Recall

Peter McAllister, Brianna Malerba, Elizabeth Sypek, Undergraduate

3:30 P.M.



UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK (CONTINUED)

69. Dive Deeper: Does Deep Processing Help With Memory?

Alissa Gonzales, Austin Kenison, Raegan Porfido, Katie DiFruscia, Undergraduate

70. Stop. Did You See That?

Alexandra Glinsky, Nicole Hennessey, Maxwell Pojednic, Serena Frisella, Undergraduate

71. Fins Versus Fuzz

Hannah Iskra, Meghan Knowles, Ryann Young, Undergraduate

72. The Memory Cocktail: Letter Distinction and Adult Beverages

Meghan Stratton, Isabella LeBrun, Angela Mayes, Reise Speroni, Undergraduate

73. The Gender Pain Gap

Gaby Sarraf, Undergraduate

74. Do You Remember?

Sarah Broderick, Sydney Blades, Christopher O'Neil, Ali Carr, Undergraduate

75. Does Eye Movement Behavior Change When Doing a Creative Task Compared to a Non Creative Task?

Caitlin Wahl, Undergraduate





UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK: THE SCHOOL OF NURSING AND HEALTH SCIENCES

76. Diagnosis and Treatment of Interphalangeal Joint Dislocation of the First Toe in a Collegiate Women's Soccer Player: a Case Study
Noel Riley, Graduate

77. Latarjet Procedure for Chronic Left Shoulder Dislocation and Instability in a Collegiate Football Player: A Case Study
Elizabeth Kashian, Graduate

78. Performance, Return to Competition & Re-Injury After Tommy John Surgery in MLB Pitchers: A Case Study
Madeline Grady, Graduate

79. NeuroCatch: The Science Behind Your Brain's Cognitive Function and How It Can Be Used in Concussion Return To Play: A Case Study
Erica Crowley, Graduate

80. STAT3 Modulates CD4 + T Mitochondrial Dynamics and Function STAT3 Regulates T Cell Function
Emelia Zukowski, Marco Sannella, Graduate

81. Utilization of Lower Extremity of Force Production Testing in Post ACL Surgical Repair in Female Collegiate Athletes: A Case Study
Matthew Quinlan, Graduate

82. Comparing and Contrasting Surgical Techniques for an Achilles Tendon Rupture: A Case Study
Megan Rumenapp, Graduate

83. Compare and Contrast: Acute Shoulder Dislocation Versus Chronic Shoulder Instability Return to Play. A Case Study
Ashley Turner, Graduate

84. The Use of the TB12 Method for a Patient Who Suffers From Cerebral Palsy: A Case Study
William Celorier, Graduate

85. Understanding Eating Disorders in Collegiate Athletics: Relationships Between Physical and Mental Health of Athletes
Rachel St.Pierre, Graduate

86. Evaluation, Management, Outcomes, and Return to Play Criteria for Overhead Athletes with Superior Labral Anterior-Posterior Pathologies
Charles MacDowell, Graduate

87. Voodoo Flossing: Therapeutic Rehabilitation Techniques for Musculoskeletal Injuries
Kelly Pittendreigh, Graduate

88. InterX: Neurostimulation Technology for Pain Reduction: A Case Study
Madison Withers, Graduate

89. Return to Play Following a Spontaneous Pneumothorax: A Case Study
Sydney Leeds, Graduate

90. Diagnosis and Treatment of Osteochondral Defects of the Knee: A Case Study
Meredith Morin, Graduate

91. A Faith-Based Healthcare Approach: Parish Nurse Program
Taylor Carreiro, Graduate

92. The Diagnosis, Treatment, and Progression of MTSS
Jordan Manuel, Graduate

93. The Mental Health Effects of Acculturation in African Immigrants
Geofred Osoro, Graduate

94. Is Neural Tension Greater in the Dominant or Non-Dominant Arm?
Evan Jones, Undergraduate

3:30 P.M.



UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK (CONTINUED)

**95. Hip, Knee, and Ankle Motion
Ascending Versus Descending Stairs**
Julia Taylor, Undergraduate

**96. The Effect of Anxiety Among
Children with Developmental Disorders
Receiving Occupational Therapy**
Brooke Toothaker, Undergraduate

**97. Physiological Effects of Chronic
Aerobic Exercise in Hot Temperatures
on VO2 Max**
Madison Cote, Undergraduate

**98. The Effect of Music Tempo on
Runner's Speed**
Cecelia Barron, Undergraduate

99. What the Health
Olivia Griffin, Undergraduate

**100. The Importance of Educating
Society on Social Determinants Within
our Healthcare System**
Cristina Cedrone, Undergraduate





UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK: WINSTON SCHOOL OF EDUCATION AND SOCIAL POLICY

101. How Sleep Education Can Impact Sleep and Anxiety Levels in Adolescents

Laura H. Johnson, Graduate

102. Program Analysis of the Restorative Justice Practices at an Urban Alternative Middle School

Kristen O'Connor, Graduate

103. The Effects of Mindfulness Practices on Anxiety and Depression Levels in 6th Grade Students

Kristen Foley, Graduate

104. Increasing Awareness and Understanding of the Shop Selection Process at a Technical High School

Erin Bruce, Graduate

105. Breathing Exercise Intervention on Learning Lab Students' Test Anxiety and Academic Performance

Tiffany Costello, Graduate

106. The Effects of Mindfulness Practices on Anxiety and Depression Levels of 7th Grade Students

Ally Harradon, Graduate

107. Conflict Styles/Management Lesson For Seventh Grade Students

Haley Flaherty-Dawson, Graduate

108. School Counselors and School Adjustment Counselors in Massachusetts running groups

Reem Chniouli, Graduate

109. Does Participation in a Social Emotional Learning Group Impact Self-Esteem Levels of 6th Grade Students?

Martha Vosnak, Graduate

110. Efficacy of the DESE Scope and Sequence for Eighth Grade Post-Secondary Planning

Spencer Benoit, Graduate

111. Mindset Matters: Freshmen Males' Mindset and Academic Performance

Julia Marshall, Graduate

112. Catching Our Kids Before They Fall: Experiences in Implementation of a Universal Mental Health Screening

Karthika Streb, Graduate

113. Impact of Early College Participation on College Outcomes for Urban Youth

Mackenzie Reardon, Graduate

114. Motivation to Learn in an Urban High School

Haley Normandin, Graduate

115. College and Career Awareness for English Language Learner Students

Laura Reid, Graduate

116. School Based Social Work Support and 6th, 7th, and 8th Grade Student Success

Kristina Talambekos, Graduate

117. This is A Study Examining the Connection Between Attendance and Academic Outcomes for Middle School Students

Kylie McGilvray, Graduate

118. Utilizing a Career Awareness Intervention to Foster Career Decision Skills in Ninth Grade Students at Billerica Memorial High School

Jessica Almeida, Graduate

119. Increasing FAFSA Completion Rates in an Urban High School

Deborah Kosnar, Graduate

120. Effectiveness & Impact of Attendance Policy Changes in Student Outcomes

Daniela Greene, Graduate

121. A Place for Women in Higher Education: A Literature Review

Emma Cannistraro, Graduate

122. Campus Visits and College Awareness + Self-Efficacy

Justin Scott, Graduate



UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK (CONTINUED)

123. Cognitive Restructuring on Student's Self-Efficacy & Academic Motivation Levels

Molly Hayes, Graduate

124. Outcomes of a Mental Health Literacy Program in an all Male Private School

Jacob Beaudoin, Graduate

125. Saint Michael School NEASC Survey

Alexis Marie Viering, Graduate

126. A Student's Perspective on Drop Out of Urban High School & Re-entry into Education

Carina Lawrence, Graduate

127. The Importance of Academic and Social Language When Working With EL Students

Katie O'Brien, Graduate

128. Self-Reports from 6th Graders at an Urban Middle School

Tina McNeil, Graduate

129. G.I.R.L.S Program Effectiveness on Adolescent Self-Esteem

Erin Claflin, Graduate

130. Anxiety, Depression, and So Much More: The Effects of the Imposter Phenomenon on Minoritized College Students

Nancy Pocoli, Graduate

131. School Avoidance Behaviors in Emerging Bilingual Students

Kelsey Leonard, Graduate

132. The Effectiveness and Ethics of Employing Restorative Justice Practices in Response to Sexual Assault on College Campuses

Anastasia Kranz, Graduate

133. The Psychological, Social, and Physiological Impacts on Fatherless Sons: A Systematic Literature Review

Jordan Raffalli, Graduate

134. Investigative Support Internship with Defense Criminal Investigative Service (DCIS)

Yasmine Yilgor, Graduate

135. Understanding the Experiences of Student Leaders of Color: How Student Affairs Professionals Can Support Their Success

Valerie Mamish, Graduate

136. The Impact of High School Mentorship- Will High School Students Who Participate in a Mentoring Program Show Improvement in Academic Performance and Measured Levels of Confidence?

Kendra Gordon, Graduate

137. Immigrant Students in Higher Education and College Access

Jennifer Rose, Graduate

138. The Benefits of Emotional Intelligence Training

Brittany Dempsey, Graduate

139. Evaluating Academic Success/stress/performance in college student athletes

Brian Dervin, Graduate

140. Can a Nature-Based Urban Preschool meet the competencies laid out by State Standards?

Jessica Noke, Graduate

141. Why Is Male Retention and Enrollment Declining in Higher Education Institutions?

Ivy Irwin, Graduate

142. Addressing Compassion Fatigue in Social Workers Who Serve Children and Families

Kiara Selena Torres, Graduate

143. How Can Educators Best Support Latinx LGBTQ+ Youth With Their Mental Health?: A Systematic Literature Review

Saira Saez, Graduate

144. Trauma-Informed Sex Education as an Intervention for Youth Affected by Adverse Childhood Experiences (ACES)

Sara Elkerm, Graduate

145. Faculty Journeys in the Higher Education System in the United States

Diana Coello Baquero, Graduate



UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK (CONTINUED)

146. Mental Health of International and Immigrant Students in the U.S.
Maha Nassar, Graduate

147. Annotated Biography
Deanna Conte, Graduate

148. Effective Prevention Practices for Eating Disorders in Female Athletes
Taylor Darrell, Graduate

149. Improving CSEC Interventions: Centering the Voices of Survivor's and Service Providers
Haleigh King, Graduate

150. Challenges for Children in Accessing Mental Health Intervention Via the Emergency Department A Systematic Literature Review
Blanca Valencia, Graduate

151. Afghan Refugees in the United States
Vanessa Kaddaras, Graduate

152. Misunderstandings and Misconceptions of English Learners in General Education
Meredith Lane, Graduate

153. Narratives as a Teaching Tool for Emergent Bilinguals
Kim Silverman, Graduate

154. The HBCU Student Experience and Educational Outcomes
Mysia Perry, Graduate

155. CTE: Education of the Future
Kelvin Roberts, Graduate

156. The Importance of Student Activism and How Colleges Can Best Support Activism Efforts
Myracle Sadie Fielding, Graduate

157. The Exigency of Interagency Collaboration Within the United States and Between International Agencies on the Safekeeping of Our Borders.
Magdalini Poulimeni, Graduate

158. Restorative Justice in Student Conduct: Principles, Limitations and Recommendations for Exploration
James Kelly, Graduate

159. Alarm Clock Theory: How to Wake a Student Up to Midterm Grades
Emily Leal, Graduate

160. The Effects of Anxiety on Students' Academic Success
Mandy Laporte, Graduate

161. Belonging Through Group-Work: Designing Experiences That Engage Diverse Students in Stem Gateway Courses
Stephanie Brincklow, Graduate

162. Examining Best Practices for Foster Youth Success in Higher Education
Molly Magrane, Graduate

163. Supporting English Language Learners in Post Secondary Education
Maria Carolina De Almeida Rangel Ferraz, Graduate

164. Ways to Prepare Teachers to Teach EI Students/Immigrant Students
Meghan Dzialo, Graduate

165. Learning Communities within Higher Education
Lauren Hamilton, Graduate

166. Breaking Barriers to Achievement: How Higher Education Can Help More Students Succeed
Jennifer I.O. Enaboakpe, Graduate

167. Helping Students with Disabilities Thrive In Higher Education
Olivia Casey, Graduate

168. Undocumented Student Support and Experiences in Higher Education
Alyssa Badgio, Graduate

169. How First-Generation College Students Can be Better Supported Throughout Their Transition into College
Elizabeth DeLong, Graduate

170. Self Help and Wellness Library
Alaina DiBlasi, Graduate

171. The Trauma of Immigrants and Refugees in the Classroom
Tiana Powell, Graduate



UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK (CONTINUED)

172. Support for Students with Limited or Interrupted Formal Education
Rachel Adam, Graduate

173. The Whole Student Experience
Connor Nickerson, Graduate

174. Guidance/Counseling in the Classroom for English Learners
Timothy Lang, Graduate

175. Aerobic Exercise as an Intervention for Children With ADHD: A systematic Literature Review
Jessie MacInnes, Graduate

176. School Climate at Center Elementary School in Tewksbury, MA
Taylor Anderson, Graduate

177. Early Elementary Students Awareness and Acceptance of Peers With Disabilities
Alani Simmons, Graduate

178. The Development of Substance Abuse & Risky Behaviors in College Students
Emily Valenzuela, Graduate

179. Pa'lante: Latinx Student Success and Retention
Kevin Lopez Giraldo, Graduate

180. English Learners in Special Education
Kelsey Callahan, Graduate

181. Making Meaningful Connections with Families of English Learners
Giana Marks, Graduate

182. From Jim Crow to Juan Crow: Examining the Legal Challenges Confronting Undocumented Students in Southeastern Post-Secondary Education
J. Carlos Rodriguez Flores, Graduate

183. Juvenile Probation Internship Experience
Jacqueline Rosney, Graduate

184. Understanding Personalities
Huntyr Poulin, Undergraduate

185. Educational Gag Orders and School Censorship: Challenging Historical Narratives and Legislative Backlash
Emma Jones, Undergraduate

186. A Presentation on my Experience at the Court Service Center
Ciara Cox, Undergraduate

187. Internship: Student Security
Victoria Mantia, Undergraduate

188. The Association between Exercise and Mental Health in Middle-Aged Adults
Kaitlyn Sok, Undergraduate

189. My Internship Experience With The Massachusetts State Police Crime Laboratory
Eliza Daly, Undergraduate

190. Spring 2023 Criminology & Criminal Justice Internship
Abigail Low, Undergraduate

191. Back the Blue: Interning at Haverhill Police Department
Mikayla Melahn, Undergraduate

192. Internship: Middlesex Sheriff's Office at Billerica House of Correction and Jail
Isabella LeBrun, Undergraduate

193. Effects of Weathering Grade 3
Caitlin O'Brien, Jillian Darois, Undergraduate

194. Playing with Magnets in Second Grade
Emma Margossian, Kailyn Bowie, Undergraduate

195. Sound and Vibration Relationships with Second Graders
Abigail Sperrazza, Talia Casale, Corinna Corriveau, Undergraduate

196. Erosion with 2nd Graders
Alessia Puccio, Katharine Duray, Undergraduate

197. Playing with Magnets in Second Grade
Kailyn Bowie, Emma Margossian, Undergraduate



UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK (CONTINUED)

198. Sound and Vibration in Second Grade

Ashley Rapoza, Emily McCormick, Undergraduate

199. Properties of Matter With Second Graders

Catherine Johnson, Katelyn Distasio, Undergraduate

200. Grade 2 Takes on Properties and Materials

Nicole Stagg, Emma Zimon, Undergraduate

201. Teaching Properties of Materials to 2nd Graders

Amber Bean, Aries Mustoe, Undergraduate

202. Properties of Materials with Second Grade

Fabielys Martinez, Gabriela Scarpelli, Undergraduate

203. Earth Science with Second Graders

Elizabeth Belmonte, Sydney Haskin, Undergraduate

204. Static Electricity with Second Graders

Abigail Garside, Emily Gosselin, Undergraduate

205. Properties of Matter in Second Grade

Kali Rowe, Erica Surabian, Undergraduate

206. Seeds in the Eyes of Second Graders

Bridget Slocum, Allison Mallett, Undergraduate

207. Massachusetts State Police Internship

Lauren Baudo, Undergraduate

208. My Internship with North Andover Police Department

Patrick Feeney, Undergraduate

209. Internship at Court Service Centers of Lawrence, Massachusetts

Alexander Perry, Undergraduate

210. Massachusetts State Police Crime Lab: A Day in the Life of a Forensic Scientist

Emma Mastovsky, Undergraduate

211: My Undergraduate Internship Experience

Lily Ryan, Undergraduate

212: A Poster Presentation of my Internship Experience

Jacob Di Martino, Undergraduate

213: Racial Literacies: What Teacher Candidates Know and What They Need to Know

Paige Salvi, Isabel Fernandes, Undergraduate

214: My Internship at the Orange Police Department

Ryan Miller, Undergraduate

215: Criminal Justice Internship: State Auditors Office

Jackson Fortune-O'Brien, Undergraduate

216: Internship: Burlington Police Department

Cameron Casella, Undergraduate

217: Liberal Education and Legal Training

Michelle Maffe, Undergraduate

218: My Time at the Burlington Police Department

Thomas Driggs, Undergraduate

219: An Analysis of Race and Ethnicity in Education

Jasmine Gonzalez, Undergraduate

220: Internship: Law Offices of Maria C. Rogers, PLLC

Aislin Terenzio, Undergraduate

221: Building a Better Bystander: A Proposal for New Bystander Intervention Practices at Merrimack College

Lillian Schaefer-Calderon, Undergraduate

3:30 P.M.



UNDERGRADUATE AND GRADUATE STUDENT RESEARCH AND CREATIVE WORK (CONTINUED)

222. Turco Legal Internship
Abigail Raymond, Undergraduate

**223. An Internship With the International
Institute of Greater Lawrence**
Marlaina Linnane, Undergraduate

**224. Framingham Public Schools
System: Safety & Security. Georgia
Parker, Merrimack College**
Georgia Parker, Undergraduate

**225. My Internship at the Orange, CT
Police Department**
Ryan Miller, Undergraduate

**226. My Internship With The
Massachusetts State Police**
Sean Walsh, Undergraduate

**227. Implicit Bias and Differential
Treatment in K-12 Education: Gender &
Race**
Cintia Khouzami, Undergraduate

228. Middlesex County Sheriffs Office
Zachary Fiore, Undergraduate

**229. Early College Policy Fellow
Presentation**
Arline Ortiz, Undergraduate

**230. Middlesex District Attorney's
Office**
Hannah Jeffers, Undergraduate

231. The Virtual Court Service Center
Kaitlyn Collins, Undergraduate

232. Working with MCPD
Melanie Turano, Undergraduate

**233. Internship: Lawrence Court
Service Center**
Daniel Tolan, Undergraduate

**234. Juvenile Probation Internship
Experience**
Jacqueline Rosney, Undergraduate

**235: Merrimack College Police
Department: Student Security
Internship**
Arianna Rose Vitacca, Undergraduate

**236: My Internship With North Andover
Police**
Patrick Feeney, Undergraduate

**237: Lawrence Police Department
LLEAPS n' Bounds Program Intern**
Kyannah Hernandez, Undergraduate

**238: Immigrations Impact on Feelings
of Trust and Belonging**
Haley Alcott, Graduate

**239: Salem New Hampshire Police
Department**
James Ference, Undergraduate

