

BOARD OF REGENTS
EASTERN MICHIGAN UNIVERSITY

RECOMMENDATION

**WINTER 2021 & SUMMER 2021 UNDERGRADUATE RESEARCH STIMULUS
PROGRAM AWARDS.**

ACTION REQUESTED

It is recommended that the Board of Regents accept and place on file the Report on the Winter 2021 and Summer 2021 Undergraduate Research Stimulus Program Awards.

STAFF SUMMARY

The Undergraduate Research Stimulus Program is intended to facilitate research partnerships between undergraduate students and Eastern Michigan University faculty. Student awardees will receive a \$2,000 fellowship in support of their research efforts, which will be paid in bi-weekly installments throughout the award period. This award will be in the form of a credit to the student's university account. The collaborating faculty member may receive \$500 to be used for lab/studio supplies or equipment, professional travel, or other professional expenses.

WINTER 2021: The Provost and Executive Vice President of Academic and Student Affairs has awarded a total of \$18,000 to nine (9) undergraduate students and \$4,233 to nine (9) Eastern Michigan University faculty for Winter 2020 and research and creative projects under the Undergraduate Research Stimulus Program.

SUMMER 2021: The Provost and Executive Vice President of Academic and Student Affairs has awarded a total of \$20,000 to ten (10) undergraduate students and \$4,597 to ten (10) Eastern Michigan University faculty for Summer 2020 and research and creative projects under the Undergraduate Research Stimulus Program.

FISCAL IMPLICATIONS

The cost of Undergraduate Research Stimulus Program awards will be funded from the Provost's indirect cost recovery.

ADMINISTRATIVE RECOMMENDATION

The proposed Board action has been reviewed and is recommended for Board approval.



May 21, 2021

University Executive Officer
Rhonda Longworth, Ph.D.

Date

Eastern Michigan University
Division of Academic and Student Affairs

**WINTER 2021 UNDERGRADUATE RESEARCH STIMULUS PROGRAM
AWARDS**

1. Kasey Baker (majoring in Health Administration). “Infant Mortality in the United States and Canada: A Comparison of Data and Health Policy Trends.” Faculty mentor: Annemarie Kelly (School of Health Sciences).
2. Jaimie Barr (majoring in Psychology). “Determining the Prevalence of Children with Autism who Experience Delays to Behavioral Therapy in Michigan and Understanding the Needs of their Families” Faculty mentor: Adam Briggs (Department of Psychology).
3. Carrie Kosiba (majoring in Biology). “Vocal analysis of the Newly Described Atlantic Coast Leopard Frog.” Faculty mentor: Katherine Greenwald (Department of Biology).
4. Aaron Liske (majoring in Computer Science). “Remote Vehicle Data Gathering and Processing.” Faculty mentor: Xiangdong Che (School of Information Security & Applied Computing).
5. Morgan Chaudry (majoring in Biology). “Comparing watershed run off and WWTP effluents as sources of microplastics to the Huron River.” Faculty mentor: Kristi Judd (Department of Biology).
6. Kevin Purify (majoring in Fine Arts). “Small Architecture: Prefabricated Modular Spaces.” Faculty mentor: John DeHoog (School of Art & Design).
7. Micaela Schempf (majoring in Chemistry). “Replacement of Hydrazide Moieties in Novel Inhibitors of Plasminogen Activator Inhibitor-1.” Faculty mentor: Cory Emal (Department of Chemistry).
8. Nadia Silvia (majoring in General Biochemistry). “The Effect of Autophagy Related Protein 10 and its Mutants on Autophagosome Size and Number.” Faculty mentor: Steven Backues (Department of Chemistry).
9. Mary Watson (majoring in Biology and French). “Growth Rates & Metabolism in 5 Tarantula Species: Support for the Pace of Life Syndrome.” Faculty mentor: Cara Shillington (Department of Biology).

Eastern Michigan University
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**SUMMER 2021 UNDERGRADUATE RESEARCH STIMULUS PROGRAM
AWARDS**

1. Garrett Bailey (majoring in Biology and Chemistry). “Optimization of compucell 3D to mimic autophagic body clustering.” Faculty mentor: Steven Backues (Department of Chemistry).
2. Morgan Bergren (majoring in Geology - Hydrogeology). “Source tracking of chemical and microbiological contaminants in Millers Creek” Faculty mentor: Christopher Gellasch (Department of Geography and Geology).
3. Tristan Burk (majoring in TESOL and Spanish K-12 Education). “Examining K-12 English as a Second Language Teachers’ Use of Resources on Promoting Racial Equity.” Faculty mentor: Zuzana Tomas (Department of World Languages).
4. Jessica Callaghan (majoring in Clinical Laboratory Science - Medical Laboratory Science). “The Effects of Yerba Santa on Haemophilus Species.” Faculty mentor: Lynne Shetron-Rama (School of Health Sciences).
5. Mair Edwards (majoring in Biology). “Analysing the Temperature Response of GGT1, a Photorespiratory Aminotransferase.” Faculty mentor: Aaron Liepman (Department of Biology).
6. Tanner Kendall (majoring in Nursing). “Nursing Student Lockdown Fatigue.” Faculty mentor: Meriam Caboral-Stevens (School of Nursing).
7. Jacob Kendrick (majoring in Mechanical Engineering Technology). “Investigate the Feasibility of Carbon Dioxide in an Applied Particle Image Velocimetry System.” Faculty mentor: Paul Kominsky (School of Engineering Technology).
8. Carlos Mellado Fritz (majoring in General Biochemistry). “Understanding the difference in thermal stability of UHRF2.” Faculty mentor: Brittany Albaugh (Department of Chemistry).
9. Arturo Peña (majoring in Psychology). “Fear Acceptance Versus Fear Reduction for Proper Extinction Learning in Augmented Reality Exposure Therapy.” Faculty mentor: Ellen Koch (Department of Psychology).
10. Sydney Timmer (majoring in K-12 Vocal Music Education). “The Current Status of LGBTQ+ Inclusivity in U.S. Choral Classrooms.” Faculty mentor: Heather Shouldice (School of Music and Dance).