



13TH ANNUAL

Undergraduate Research & Scholarship Symposium

-A VIRTUAL EVENT-

April 12 thru April 16, 2021

duq.edu/urss

SCHEDULE OF EVENTS

<p>April 12 through April 16</p>	<p>Symposium by Forager One Interactive Poster Session - Browse virtual posters, view accompanying videos, comment and ask questions. Platform will launch April 12!</p>
<p>Monday, April 12</p>	<p>Welcome - Symposium Site Launch! Browse through posters and accompanying videos. Comment and ask questions (commenting feature will be enabled once you register the day of the event launch).</p> <p>1:00 pm to 2:00 pm- "Resume Building" Live Workshop (via Zoom) Debra L. Saffer, M.Ed, NCC, LPC - Asst. Director/ Career Consultant for Science, Engineering, and Health Care, Center for Career Development</p>
<p>Tuesday, April 13</p>	<p>Live Oral Presentations via Zoom Session 1: 10:00 am to 11:00 am Session 2: 1:00 pm to 2:00 pm Session 3: 2:00 pm to 3:00 pm</p>
<p>Wednesday, April 14</p>	<p>11:30 am - "Everyday Mindfulness" Meditation Live Workshop (via Zoom) Amber Lasure - Assistant Director, Wellness & Fitness, Duquesne University</p>
<p>Thursday, April 15</p>	<p>Live Oral Presentations via Zoom Session 1: 10:00 am to 11:00 am Session 2: 1:00 pm to 2:00 pm Session 3: 2:00 pm to 3:00 pm</p>
<p>Friday, April 16</p>	<p>12:00 pm - 2:00 pm "A Day in the Life of a Graduate Student" Live Workshop (via Zoom) Moderator: Brandon Hoenic, PhD Candidate, Dept. of Biological Sciences Join Duquesne University Graduate students from the Bayer School of Natural & Environmental Sciences for a Q & A session as they describe how they got involved in research. This is your chance to ask questions and gain an understanding of some of the paths to which undergraduate research can lead.</p>

Tuesday, April 13 - SESSION 1

Moderator: Dr. Erik Garrett

10:00 - 10:15

Haley Moore

School: Bayer School of Natural and Environmental Sciences

Major: Biology

Faculty Advisor: Sarah Woodley, Ph.D.

Characterizing Coqui Frogs in Phipps Conservatory and Botanical Gardens

10:15 - 10:30

Kezia Jemison

School: Bayer School of Natural and Environmental Sciences

Major: Biochemistry

Faculty Advisor: Jeffrey Evanseck, Ph.D.

Quantum and Molecular Mechanical (QM/MM) Approach to Modeling the Water Solvated Uncatalyzed Decarboxylation of Monoanionic and Dianionic Malonate

10:30 - 10:45

Amber DelPrince & Melanie Tommer

School: McAnulty College and Graduate School of Liberal Arts

Majors: Spanish (DelPrince), Physical Therapy (Tommer)

Faculty Advisor: Regina Harbourne, Ph.D.

The Relationship Between Focused Attention and Object Permanence in Infants with Motor Delays

10:45 - 11:00

Clare Flanagan

Program: Biomedical Engineering

Major: Biomedical Engineering

Faculty Advisor: Kimberly Williams, Ph.D.

Decellularization of Spinach Leaves as an Outreach Initiative for introducing Tissue Engineering to Elementary School Students

Tuesday, April 13: SESSION 2

Moderator: Kendal Nasiadka

1:00 - 1:15

Amanda Pellegrino

Program: Biomedical Engineering

Major: Biomedical Engineering and Nursing

Faculty Advisor: Kimberly Williams, Ph.D. and Bin Yang, Ph.D.

Bioprinting Alginate Structures using the FRESH Method

1:15 - 1:30

Garett Craig, Alex Evans, Amanda Pellegrino, Ben Bernarding, and Justin Cook

Majors: Biomedical Engineering & Nursing

Faculty Advisor: Michael Nilo

A novel Telehealth Device

1:30 - 1:45

Megan Huey and Amy Yuhas

School: School of Nursing

Major: Nursing

Faculty Advisor: Mai-Ly Nguyen Steers, Ph.D.

Going Out or Staying In: How the COVID-19 Pandemic has Influenced College Students' Drinking and Socializing

1:45 - 2:00

Elizabeth Timanus, Jocelyn Cawoski, Katie DeBiasio, and Scott Donnachie

School: School of Pharmacy

Major: Pharmacy

Faculty Advisor: Branden Nemecek, PharmD, BCPS

Safety and efficacy of intravenous hydralazine and labetalol for the treatment of asymptomatic hypertension in hospitalized patients: a systematic review

Tuesday, April 13: SESSION 3

Moderator: Sadhana Srinivasa

2:30 - 2:45

Angelica Alday and Talha Lone

School or Program: Rangos School of Health Sciences and Biomedical Engineering

Major: Biomedical Engineering

Faculty Advisor: Rana Zakerzadeh, Ph.D.

Additional Author: Scott Toth

Numerical Study of Arterial Stenosis and its Sensitivity to Model Uncertainties

2:45 - 3:00

Brooke Kimet and Claire Shipley

School: McAnulty College and Graduate School of Liberal Arts

Major: Psychology

Faculty Advisor: Alexander Kranjec, Ph. D

Christianity and COVID: Conservative Authoritarianism

3:00 - 3:15

Jonah Lee

School: Rangos School of Health Sciences

Major: Biology/Pre-Dental

Faculty Advisor: Bridget Calhoun, Ph.D., M.M.S. and Kristin D'Acunto M.P.A

Occupational Exposures Among Dental Professionals: A Cross-Sectional Study

3:15 - 3:30

Lindsay Harvey & Mikolaj Bandosz

School: Rangos School of Health Sciences

Major: Speech-Language Pathology

Faculty Advisor: Sarah Wallace Ph.D. CCC-SLP, ASHA-F

Measuring and Understanding the Experience of Post-Traumatic Growth in Aphasia

Thursday, April 15: SESSION 1

Moderator: Dr. Erik Garrett

10:00 - 10:15

Justin Cook

Program: Biomedical Engineering

Faculty Advisor: Lauren Sugden, Ph.D.

Understanding the effect of adaptive mutations on the three-dimensional structure of RNA

10:15 -10:30

Michael Murphy

School: McAnulty College and Graduate School of Liberal Arts Faculty

Major: Theater Arts and Women's and Gender Studies

Faculty Advisor: Cathleen Appelt Ph.D.

LGBT Families: A Social Science Literature Review

10:30 - 10:45

Ryan Cecil

School: McAnulty College and Graduate School of Liberal Arts

Major: Mathematics

Faculty Advisor: Stacey Levine, Ph.D.

Deep Learning based Image Restoration: Balancing performance and theoretical guarantees

10:45 - 11:00

Deidra Hubay

School: McAnulty College and Graduate School of Liberal Arts

Major: Political Science & Sociology

Faculty Advisor: Sarah MacMillen Ph.D

Effects of Mechanical Institutionalization on Veteran Post-Service Re-Entry

Thursday, April 15: SESSION 2

Moderator: Carissa Lange

1:00 - 1:15	<p>Gina Joy School: School of Pharmacy Major: Doctorate of Pharmacy Faculty Advisor: Devika Manickam, Ph.D.</p> <p><i>Engineered Extracellular vesicles for the delivery of brain-derived neurotrophic factor to ischemic brain endothelial cells</i></p>
1:15 - 1:30	<p>Rebecca McCallin Schools: Bayer School of Natural and Environmental Sciences, McAnulty College & Graduate School of Liberal Arts, School of Nursing Majors: Biology, Biomedical Engineering, Cybersecurity Studies, Nursing, Chemistry, Media Studies, Journalism, Physics Faculty Advisor: Melikhan Tanyeri, Ph.D. Additional Authors: Madelyn Hoying, Lucia Secaida, Alexander Guy, Nina Dorfner, Alexander Evans, Karli Rae Sutton, Matthew Nestler, Amanda Trusiak, Selvin Hernandez, Garrett Craig, Rachel Fernandez, Paige Aley, Ingabire Gakwerere, Maria Mosbacher, Mary Flavin, Audrey Steen, Benjamin Kazimer</p> <p><i>Project ALIEN (Alternative Lifeform Identification and Exploration Navigator)</i></p>
1:30 - 1:45	<p>Sarah McKendrick School: Bayer School of Natural and Environmental Sciences Major: Forensic Science and Law Faculty Advisor: Lyndsie Ferrara, Ph.D.</p> <p><i>Using Online Learning and Gamification to Enhance Ethics Education in Forensic Science</i></p>
1:45 - 2:00	<p>Maya Louttit, Megan McCallister, and Elizabeth Parisi School: Rangos School of Health Sciences Major: Speech Language Pathology Faculty Advisor: Sarah Wallace, Ph.D.</p> <p><i>How Does Text-to-Speech Affect Reading Comprehension in People with Aphasia?</i></p>
2:00 - 2:15	<p>Emma Polen</p>

School: McAnulty College and Graduate School of Liberal Arts
Major: Integrated Marketing Communication
Faculty Advisor: James Purdy, Ph.D.

The Effect of COVID-19 on Elementary Students' Use of Language Online

Thursday, April 15: SESSION 3

Moderator: Sadhana Srinivasa

2:30 - 2:45

Odile Enslin

School: Bayer School of Natural and Environmental Sciences

Major: Forensic Science and Law

Faculty Advisor: Lyndsie Ferrara, Ph.D

Suicide Trends Within Impoverished Areas: The Need for a Closer Look at Connections Between Suicide and Poverty

2:45 - 3:00

Christopher Cox

School: Mary Pappert School of Music

Major: Trumpet Performance

Faculty Advisor: Paul Miller, Ph.D.

Developing a Multimedia Interface and Framework for Electrical Biosignal Interpretation

3:00 - 3:15

Riyan Babidhan

School: School of Pharmacy

Major: Doctor of Pharmacy

Faculty Advisor: Devika Manickam , Ph.D.

Extracellular Vesicles/HSP27 Protein Nanoparticles Are a Promising Approach to Decrease Blood-Brain Barrier Permeability in Ischemic Stroke

3:15 - 3:30

Spencer McNeill

School: Mary Pappert School of Music

Major: Music Education

Faculty Advisor: Nicole Vilknor, Ph.D.

JA RUSYN BYL (I am Rusyn): investigating repressed Rusyn identity through the lens of folk music

