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Left to Right: Megan Ferriby, Amanda Jovanovich, Mikafui Dzotsi, Kayla Daniel, Lorraine Wallace
COMMUNITY ENGAGEMENT
The inaugural Research-on-the-Road Showcase was held on October 5, 2018 at Columbus State Community College (CSCC). Five Ohio State students shared their research with CSCC students interested in transferring to Ohio State in the future. Immediately following research presentations, CSCC students had the opportunity to ask student presenters questions about Ohio State (e.g., selecting a major, tips on identifying a research mentor).

Student Presenters (left to right): Jacob Socha (Biology), Jack Reifenberg (Health Sciences), Julie Meyer (Health Sciences), Cody Null (Advanced Physics and Astrophysics) and Matthew Sconce (Chemistry). Cody and Matthew began their college careers at CSCC and later transferred to Ohio State.
Twenty-six students presented their research at the 2nd Annual Undergraduate Research Day at Capitol Square on February 26, 2019. Students had the opportunity to share their research with their Ohio hometown representatives and many others visiting the Capitol.

Top Row of Photos: Pranav Padmanabhan, Riley Mullins, Mohammed Moumen; Miranda Westrick; Riley Mullins
Middle Photo: Student Presenters in the Rotunda
Bottom Row of Photos: Ryan Wilkins, Miranda Westrick, Samantha Walkin, Dan-Ho Tran; Kamila Thompson; Julia Kumar, Gretchen Klingler
Student Presenters

Abigail Cordell (Garfield Heights) Medical Dietetics
Harrison Fried (Solon) Environmental Policy
Diana Hallak (Hilliard) Molecular Genetics
Megan Halloran (Dublin) Neuroscience
Thomas Henry (Greenfield) Civil Engineering
Jade Hettick (Creston) Molecular Animal Sciences
Mindy Hoang (Tallmadge) Public Health
Molly Hunt (Greenville) Earth Science/Community Leadership
Gretchen Klingler (West Liberty) Anthropology and Arabic
Julia Kumar (Cincinnati) Neuroscience
Sidney Long (Chatfield) Animal Biosciences
Lauren Mansour (Columbus) Biomedical Science
Mohammed Moumen (Columbus) Environmental Public Health
Riley Mullins (Carroll) Pharmaceutical Sciences
Pranav Padmanabhan (Boardman) CSE and Geography
Catherine Panchyshyn (Dublin) Nutrition Sciences
Jack Reifenberg (Loveland) Health Sciences
Galina Rozenberg (South Euclid) Pharmaceutical Sciences
Annalee Sekulic (Wakeman) Anthropology and Public Policy
Joseph Smith (Columbus) Ecological Engineering/Chinese
Brianna Sowers (St. Clairsville) Biology
Kamila Thompson (Pickerington) Electrical Engineering
Dan-Ho Tran (Columbus) Molecular Genetics
Samantha Walkin (Toledo) Neuroscience
Miranda Westrick (Findlay) Public Health
Ryan Wilkins (Cincinnati) Biomedical Science
INTERNATIONAL ENGAGEMENT
OHIO STATE STUDENTS TRAVEL TO SÃO PAULO

Through a competitive process, 5 Ohio State students (Jade Hettick [Animal Sciences], David Kormos [Engineering], Riley Mullins [Pharmaceutical Sciences], Hailey Shoemaker [Animal Sciences] and Ivan Pires [Chemical Engineering]) were selected to represent Ohio State at the 26th Annual Undergraduate Research Symposium at the University of São Paulo. From November 17-23, 2018, students, Dr. Lorraine Wallace and Kayla Daniel had the opportunity to tour University of São Paulo campuses in São Paulo and Piracicaba and partake in several cultural activities throughout the week.

Top Left: Ivan Pires and Riley Mullins presenting their research. Bottom Left: Students at a sugarcane plantation near Piracicaba. Top Right: Hailey Shoemaker presenting her research. Bottom Right: Jade Hettick presenting her research.
Five students from the University of São Paulo presented their research projects at the Spring Undergraduate Research Festival on March 20, 2019.

Ana Theresa Moraes Rodrigues (Anthropology)
Caroline Munhoz Meira (Veterinary Medicine)
Daniele Maria Heguedusch Oliveira (Dentistry)
Guilherme Simoneti de Arruda (Electrical Engineering)
Júlia Boscariol Rasera (Botany)

Left to Right: Caroline Munhoz Meira (Veterinary Medicine), Daniele Maria Heguedusch Oliveira (Dentistry), Guilherme Simoneti de Arruda (Electrical Engineering), Júlia Boscariol Rasera (Botany), Ana Theresa Moraes Rodrigues (University of São Paulo Faculty Member), Ana Perez (Anthropology) and Kayla Daniel (UR&CI Program Assistant)
The 2nd World Conference on Undergraduate Research was held May 23-26, 2019 at the University of Oldenburg, Germany. Approximately 300 undergraduates, from all continents, participated in the conference. Eleven Ohio State students presented their research projects in both oral and poster presentation formats: Iona Campbell, Hannah Cochran, Mukul Govande, Harrison Fried, Asish Katta, Avery Meyer, Anna Phillips, Katarina Schneiderman, Sarthak Shah, Brianna Sowers and Jamie Wise.
ONLINE OUTREACH
UR&CI uses social media platforms to provide undergraduate research information to the Ohio State community. The UR&CI YouTube™ channel provides resources such as guided tutorials for students wanting to get started in research, and interactive interviews with undergraduate research mentors, alumni and research groups.
Blogs

UR&CI Blog features:

- Faculty Spotlights
- Student Stories
- Alumni Spotlights
- In the Spotlight Current Event Features
- UR&CI Initiatives

https://ugresearchtheohiostateuniversity.wordpress.com/
Newsletters

UR&CI distributes monthly electronic newsletters to faculty, staff, students and alumni.
RESEARCH FUNDING SUPPORT
The inaugural Buck Tank Competition was launched to provide undergraduates an opportunity to “pitch” a new research idea to a panel of judges and compete for project support. The Buck Tank competition was held in tandem with the Autumn Undergraduate Research Festival on November 1, 2018. Five individual students and one team ”pitched” their idea and were provided funding to conduct their projects.

- **Bailey Cadena, Mallory Geresy and Tommy Zarick**
  Stereotypic Behavior of Giraffe: Response to Availability of Auditory and Mouth Stimulation

- **Sean Dupiano**
  Culture Driven Cities

- **Lauren Evans**
  Access to Quality Eating Disorder Information and Treatment for Spanish-speaking Ohioans

- **Kerestina Khalil**
  Exploring Barriers to Healthcare in Underserved Minority Populations in Central Ohio

- **Pranav Padmanabhan**
  Preventing Traffic Accidents through Geographic Data Analysis and Machine Learning

- **Christopher Schroth**
  How Can We Better Utilize Student Organizations to Create Tomorrow’s Leaders
The Karen A. Holbrook Award, provides financial support for an undergraduate to complete an international research project under faculty mentorship.

Jake Ferrell (History and International Studies) received the 2019 Karen A. Holbrook Award to complete his research, “Globalization and It’s Impacts,” in Belmopan, Belize in June 2019.
The UR&CI partnered with LiFEsports to provide a community-based research fellowship for a small cohort of undergraduates from June-August 2019.

Emily Gutzwiller (Public Health), Sandy Lee (English), Claire Sobecki (Social Work and Spanish) and Melanie Tipton (Early Childhood Education) conducted research and field work under the direction of Dr. Dawn Anderson-Butcher.

http://www.osulifesports.org/
Through a competitive and peer-reviewed process, 31 undergraduates received a URAP award to conduct research under faculty mentorship.

**URAP Student Spotlights**

Logan Finley (Evolution, Ecology and Organismal Biology) worked on designing germination boxes using old micropipette tip boxes and microcentrifuge tube lids with floating rafts. His goal was to improve development of hydroponic systems to support adult Arabidopsis thaliana specimens.

Jennifer Zavon (Environment, Economy, Development and Sustainability) worked with an interpreter (Ram Upreti) to interview Bhutanese-Nepali refugees on farming challenges and opportunities in Columbus.
Summer 2019 URAP Recipients

Sion Agami-Contreras (Neuroscience)
Celine Alkhayri (Environmental Engineering)
Gwen Amborski (Biology)
Atena Baghbanian (Neuroscience)
Emilia Bowers (Nutritional Sciences)
Emma Brackman (Chemical Engineering)
Dimetrius Brandon (Physical Education and Health Education)
Elise Brubaker (Speech and Hearing Science)
Blake Dodson (Microbiology)
Allie Donohue (Environmental Engineering)
Logan Finley (EEOB)
Maiah Fogel (Spanish)
Lane Hornsby (Medical Laboratory Science)
Timothy Huang (Biomedical Engineering)
Noah Kayafas (SPS Plant Biosciences)
Kenzington Kottenbrock (Biomedical Engineering)
Timothy Elijah Kritzell (Physics and Astrophysics)
Nathan Kudlapur (Biochemistry)
Sidney Long (Animal Science)
Resham Mawalker (Biomedical Science)
Gioia Melillo (Psychology)
Evan Neczypor (Biomedical Science)
Devin O'Piela (Biomedical Science)
Cara Pannell (Nutritional Sciences)
Madeline Patrick (Psychology)
Jacob Socha (Biology)
Julie Supanekar (Molecular Genetics)
Jill Teitelbaum (Molecular Genetics)
Max Wilberding (Biomedical Science)
Jennifer Zavon (Environment, Economy, Development, and Sustainability)
Katherine Zhang (Biochemistry, Molecular Genetics, Psychology)
RESEARCH
MENTOR
RECOGNITION
Eighteen individuals received the 2019 Excellence in Undergraduate Research Mentoring Award.

Abigail Buffington (Anthropology)
Kimberly Carter (Chemistry)
Kristi Cheramie (Landscape Architecture)
Jason Coronel (Communication)
Zobeida Cruz-Monserrate (Internal Medicine)
James Fuchs (Medicinal Chemistry)
Genie Giaimo (English)
Erin Gloag (Microbiology)
Mandar Kathe (Chemical Engineering)
Chanhee Lee (OARDC Animal Sciences)

Brett Loman (Microbial Pathogenesis)
Claire Monroy (Otolaryngology)
Andre Palmer (Chemical and Biomolecular Engineering)
Nicole Sintov (Environment and Natural Resources)
Edward Taketa (Dance)
Noah Weisleder (Physiology and Cell Biology)
Ryan Winston (Food, Agricultural and Biological Engineering)
Kristina Witcher (Neuroscience)
RESEARCH PROMOTION
Research Advising Appointments

Acuity Scheduling was used to manage and streamline UR&CI office-based student research advising appointments. Over the academic year, 160 undergraduates scheduled a one-on-one 30-minute appointment with UR&CI Staff to discuss topics such as: tips to getting started with research, research funding, research thesis, and other opportunities.
SCIENTIFIC SYMPOSIAUMS AND COMPETITIONS
The Autumn Undergraduate Research Festival was held on November 1, 2018 at The Ohio Union. Approximately 250 Ohio State undergraduates shared their research as either a poster or oral presentation.
Three 3-Minute Thesis Competitions took place during the Autumn Undergraduate Research Festival on November 1, 2018. Thirty (n=30) fourth-year students competed in one of three 3-Minute Thesis Competitions throughout the day: “Lived Experiences of Human Societies,” “Emerging Issues in STEM” and “Improving Human Health.”

Lived Experiences of Human Societies
1st Place: Isaiah Johnson
2nd Place: Sydney Clark
3rd Place: Emma Megla

Emerging Issues in STEM
1st Place: Alexandra Smith
2nd Place: Stephen Gant
3rd Place: Hilary Kordecki and Nick Kruse

Improving Human Health
1st Place: Camille Bratton
2nd Place: Melanie Sich
3rd Place: Scott Stuckney
The 24th Annual Richard J. and Martha D. Denman Undergraduate Research Forum was held on February 20, 2019 in Pomerene Hall’s Ideation Zone. Just over 200 fourth-year students presented their research throughout the day.
24th Annual Denman Forum Awardees by Interdisciplinary Category:

Analyzing Impacts and Solutions to Capital Flow
1st - Abby Cummings
2nd - Rachel Williams
3rd - Kyle Crichton

Conservation and Development
1st - Harrison Fried
2nd - Heather Pechtl
3rd - Alyson Linton

Education Across the Human Lifespan
1st - Kayla Walls
2nd - Sydney Clark
3rd - Carver Nabb

Emerging Human Infections
1st - Madison Smith
2nd - Jacob Brooks
3rd - Dale Lingo

Emerging Technologies: Smartphones, Social Media Platforms, and Beyond
1st - Kuanrong Zhu
2nd - Sanchit Wadhawan
3rd - Vicki Jin

Engineering: Chemical and Environment
1st - David Kormos
2nd - Brett Ringel
3rd - Corey Sceranka

Evolution, Genetics, and Biochemistry of Insects
1st - Vivian Chang
2nd - Hilary Kordecki
3rd - Jessica Wallace

Evolutionary Ecology and Environmental Science
1st - Rebecca Anderson
2nd - Prescott Vayda
3rd - Joey Smith

Health Communication and Promotion
1st - Katie Hsieh
2nd - Navi Kaur
3rd - Makala Fioritto

Health Insights and Interventions
1st - Julia Dziablis
2nd - Anh Tran
3rd - Johan Harris

Innovations in Health Sciences
1st - Aubrey Rose
2nd - Justin Jiang
3rd - Leah Pastor

Language and Cognitive Development
1st - Celeste Hinerman
2nd - Monica Newport
3rd - Jessica Witkin

Measurement and Assessment of Human Health and Well-Being
1st - Leslie Edwards
2nd - Holly Heffer
3rd - Aminat Adewumi

Molecular Genetics and Genomics
1st - Emily Schwarz
2nd - Aastha Dhakal
3rd - Jack Fioretti

Redefining the Human Experience
1st - Laura DeAngelis
2nd - Brianna Rhodes
3rd - Turner Adornetto

Science: Statistical and Mathematical Modeling
1st - Michael Hines and Montgomery Gray
2nd - Ness Mayker
3rd - Brendan Whitaker

Structural and Material Fabrication and Design
1st - Abdullahi Insaar
2nd - Rudy Fink
3rd - Charles El-helou

Towards Precision Cancer Medicine
1st - Cara Dauch
2nd - Allison Walker
3rd - Marie Fort
The Pelotonia Fellowship Program and Sustainability Institute provided special awards to 24th Annual Denman Forum participants.

**PELOTONIA FELLOWSHIP PROGRAM**

Awardees:

Marie Fort
Mia Zhang

**SUSTAINABILITY INSTITUTE**

Awardees:

Johnathan Bell
Kelly Peterson and Kevin Conroy
Andrea Wertz
The Spring Undergraduate Research Festival was held March 26, 2019 in the Ohio Union. Approximately 250 undergraduates shared their research throughout the day.
The Images of Research + Arts Competition is an annual interdisciplinary exhibit competition.

1st

"She is Beauty, She is Grace" - Julia Mattis

2nd

"A Portrait of Medicine: Waking up with ADHD" - Emilia Bowers

3rd

"Erbschuld" - Laura DeAngelis

Honorable Mention

"#nofilter" - Danielle Wolf
2019 COUNCIL ON UNDERGRADUATE RESEARCH CONFERENCE
UR&CI hosted the Council on Undergraduate Research (CUR) Building and Enhancing Undergraduate Research and Creative Inquiry Programs Conference at The Ohio State University from June 24-29, 2019. The CUR Conference provided a central forum for both national and international champions of undergraduate research programs to discuss pertinent issues in the field and provide an opportunity for like-minded colleagues to network and collaborate. Over the course of CUR, attendees had an opportunity to interact and share best practices with more than 300 undergraduate research colleagues. Plenary speakers addressed key issues related to promotion and sustainability of undergraduate research as a far-reaching high-impact practice. Via oral and poster presentations, attendees shared undergraduate research best practices pertaining to assessment, diversity, high-impact learning strategies, internationalization, collaborations, administration and budgeting.

UR&CI Program Assistants Kayla Daniel and Mikafui Dzotsi present innovative assessment and analysis ideas for the UR&CI Undergraduate Research Advising Appointments Initiative.