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Undergraduate Poster Competition

Inquiry Editors

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National Undergraduate Week Poster Presentation Competition

In April 2022, the University of Arkansas celebrated National Undergraduate Research Week with its own week-long celebration of student research conducted on our campus. This week, hosted by the Honors College, Office of Undergraduate Research, and University Libraries, included a Research Poster Competition, that exhibited the breadth of research/creative projects undertaken by undergraduate students at the university. Over 50 honors and non-honors students entered the competition. The winners in the eight research categories are listed below.

Art/Design & Humanities

First Place

Emily Snyder

Hometown: Bentonville, AR

Major(s): History, Latino and Latin American Studies

“The Political Power of Museums: A Case Study on the Museum of Spanish Colonial Art”

Mentor: Shawn Austin

Second Place

Kaleigh Alwood

Hometown: Centerton, AR

Major(s): Music Education, Music Theory

“Analysis of Robert Schumann’s “Fantasy Pieces for Clarinet and Piano”, opus 73, for a Greater Understanding of a Standard in Western Classical Solo Repertory”

Mentor: Nophachai Cholthitchanta

Third Place

Daniella Ruiz Cantu

Hometown: Bentonville, AR

Major(s): Political Science

“Black Occularity, the White Gaze, and Color-Blindness in Shonda Rhimes’ Bridgerton”

Mentor: Lisa Corrigan

Engineering

First Place

Fah Sysavanh

Hometown: Springdale, AR

Major(s): Biomedical Engineering

“The Interaction of Angiotensin I and II on Calcified Aortic Valve Cells”

Mentor: Kartik Balachandran

Second Place

Katherine Skiles

Hometown: Baton Rouge, LA

Major(s) Biological Engineering

“Representativeness Evaluation of the Delta-Flux Network for Assessing Rice Landscapes in the Mid-South”

Mentor: Benjamin Runkle

Third Place
John Sooter

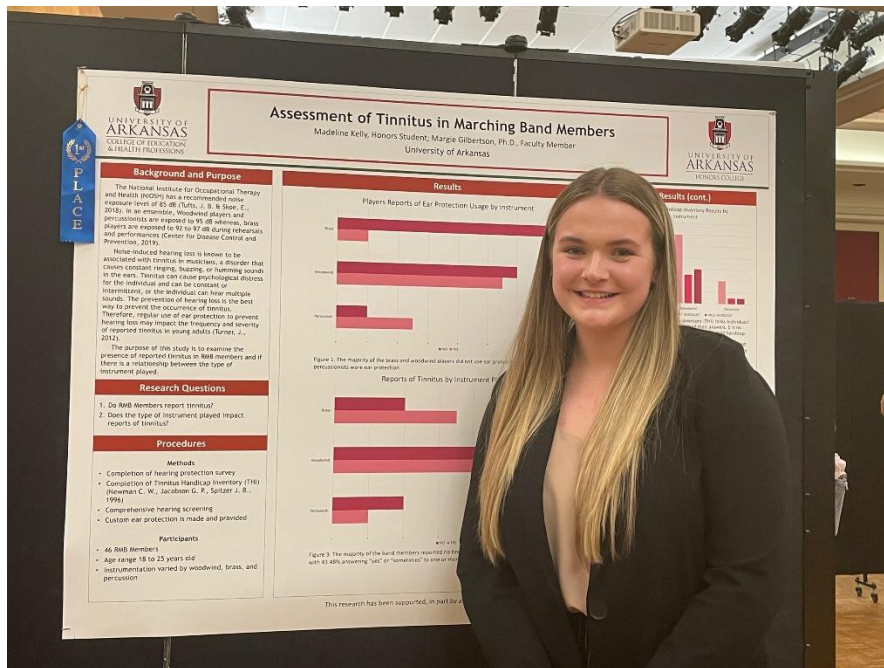
Hometown: Bentonville, AR

Major(s): Industrial Engineering

“Developing a carbon inclusive pricing model for time constrained last mile delivery services”

Mentor: Chase Rainwater

Health Group 1



First Place

Madeline Kelly

Hometown: Plano, TX

Major(s): Communication Sciences and Disorders

“Assessment of Tinnitus in Marching Band Members”

Mentor: Margie Gilbertson

Second Place

Savannah Ellis (O’Fallon, MO; Biology, Psychology) and Sarah Aly (Fayetteville, AR; Biomedical Engineering)

“The Effect on Mental, Physical, and Social Health as a Result of the Return to In-Person Classes”

Mentor: Samantha Robinson

Third Place

Alric Fernandes

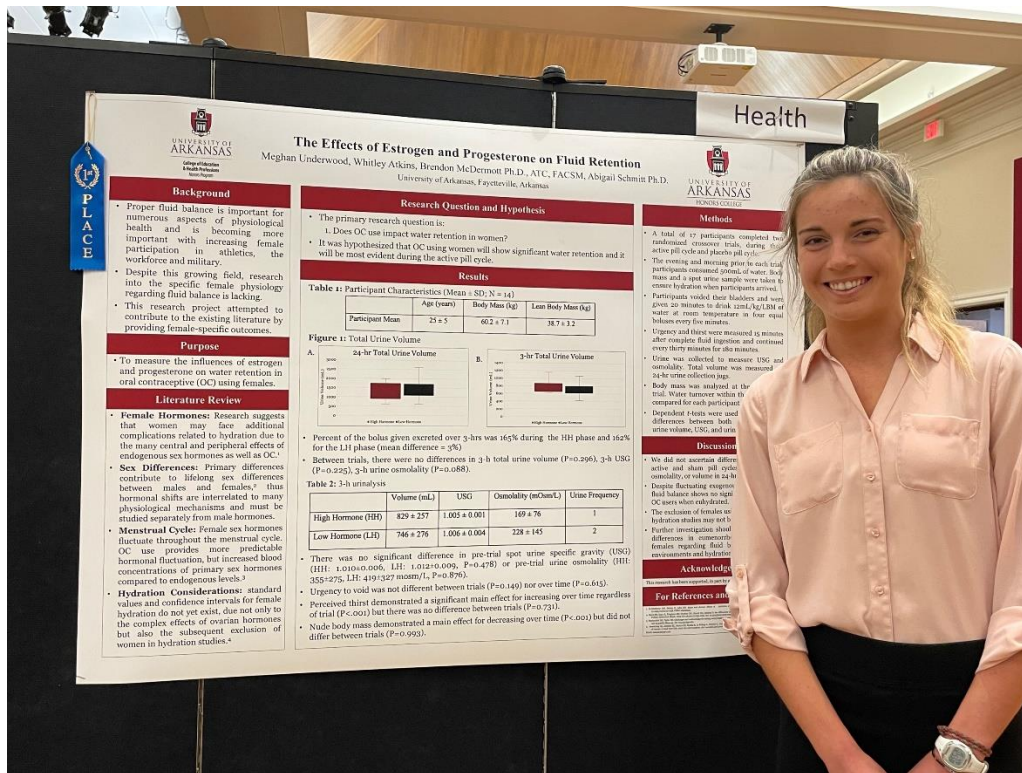
Hometown: Bentonville, AR

Major(s): Chemistry, Biology

“Robust Geographically Weighted Regression to Explore Regional Differences in Tobacco Use Determinants”

Mentor: Samantha Robinson

Health Group 2



First Place

Meghan Underwood

Hometown: Memphis, TX

Major(s): Exercise Science

“Effects of Estrogen and Progesterone on Fluid Retention and Perceived Thirst”

Mentor: Brendon McDermott

Second Place

Haley Stanton

Hometown: Mabelvale, AR

Major(s): Animal Science

“Prevalence of Ehrlichia and Rickettsia Species in Ticks in Arkansas State Parks”

Mentor: Ashley Dowling

Third Place

Brittany Martin

Hometown: Dover, AR

Major(s): Kinesiology, Exercise Science

“Correlation Between Circulating Inflammatory Biomarkers, DOMS, and Self-rated Function in Lean and Obese Populations After a Heavy Lifting Protocol”

Mentor: Brendon McDermott

Natural Science Group 1

First Place

Nathan Rives

Hometown: Fayetteville, AR

Major(s): Biology

“Type I Antifreeze Protein in Polar Fish as a Model to Study Convergent and New Gene Evolution”

Mentor: Xuan Zhuang

Second Place

Miller Bacon

Hometown: Little Rock, AR

Major(s): Biochemistry, History

“Amine Enhancement of Cyanoacrylate Fuming of Fingerprints”

Mentor: Wesley Stites

Third Place

Alexia Lo

Hometown: Gentry, AR

Major(s): Biochemistry

“Characterization of a Ras-Related Protein in the Presence and Absence of a Small Molecule Inhibitor”

Mentor: Paul Adams

Natural Science Group 2

First Place

Dominic Dharwadker

Hometown: Fayetteville, AR

Major(s): Biochemistry, French

“Regulation of vacuolar H⁺ translocating pyrophosphatase (V-PPase) impacts sucrose formation and cytosolic pH during germination in rice”

Mentor: Vibha Srivastava

Second Place

Ashley Lieber

Hometown: Wichita, KS

Major(s): Physics

“Modeling the Variability of the Sun’s Total Solar Irradiance through Supervised Machine Learning Techniques”

Mentor: Julia Kennefick

Third Place

Ethan Peters

Hometown: Fayetteville, AR

Major(s): Biochemistry, Spanish

“Design of a stable variant of FGF1-FGF2 dimer with potent cell proliferation activity”

Mentor: Suresh Kumar

Social Science Group 1

First Place

Hannah Frala

Hometown: Fayetteville, AR

Major(s): Psychology

“Using Social Media to Regulate Emotions is Associated with Psychopathology”

Mentor: Jennifer Veilleux

Second Place

Danielle Shaver

Hometown: Germantown, TN

Major(s): Psychology, Social Work

“It’s Not You, It’s Me: Contextualizing Relationship Conflict, Self-Criticism, and Emotion Regulation”

Mentor: Jennifer Veilleux

Third Place

Brynn Schuetter

Hometown: Conway, AR

Major(s): Psychology, Criminology, Sociology

“The Effects Identification Procedures Have on Eyewitness Identification”

Mentor: James Lampinen

Social Science Group 2

First Place

Aryn Blumenberg

Hometown: Conway, AR

Major(s): Food Science

“Consumer Preferences for Lab Grown Meat: The Effect of Information on Consumer Choice”

Mentor: Nathan Kemper

Second Place

Ryan Harra

Hometown: Olathe, KS

Major(s): Psychology

“The effectiveness of peer to peer Mentoring”

Mentor: Ivan Vargas

Third Place

Trinity Walker

Hometown: Fayetteville, AR

Major(s): Psychology, Spanish

“Theory of Mind: temporary super power or coincidence?”

Mentor: Bill Levine