

5th Annual
SUMMER
RESEARCH
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2019
August 9



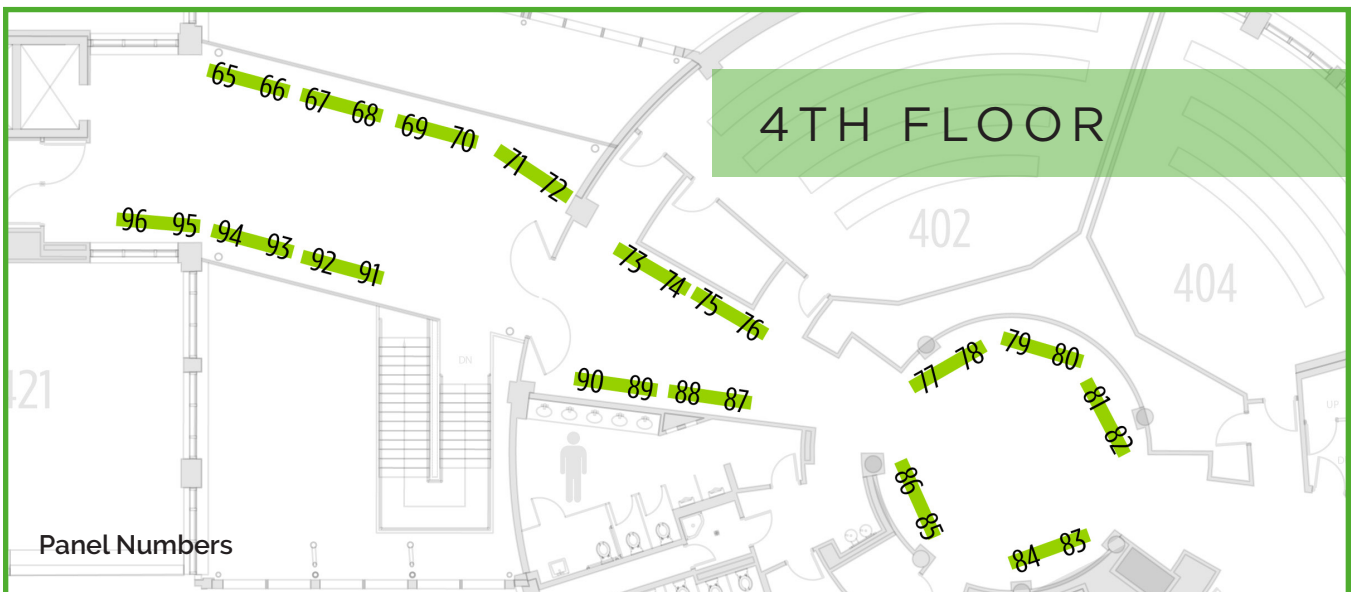
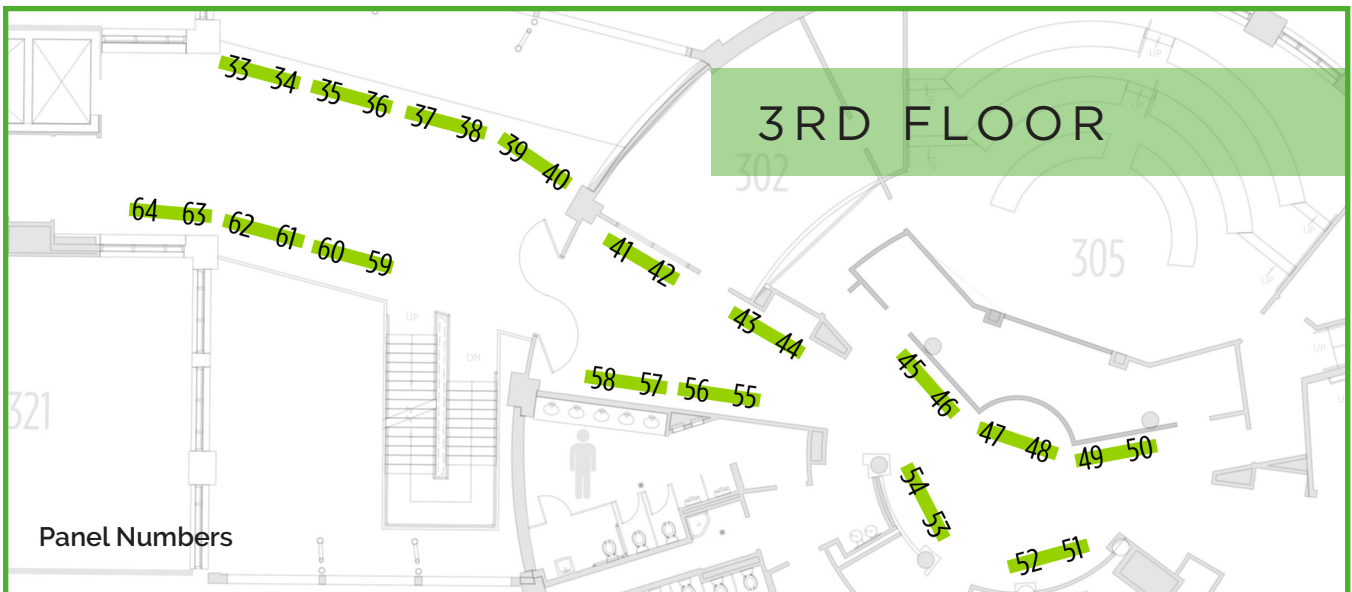
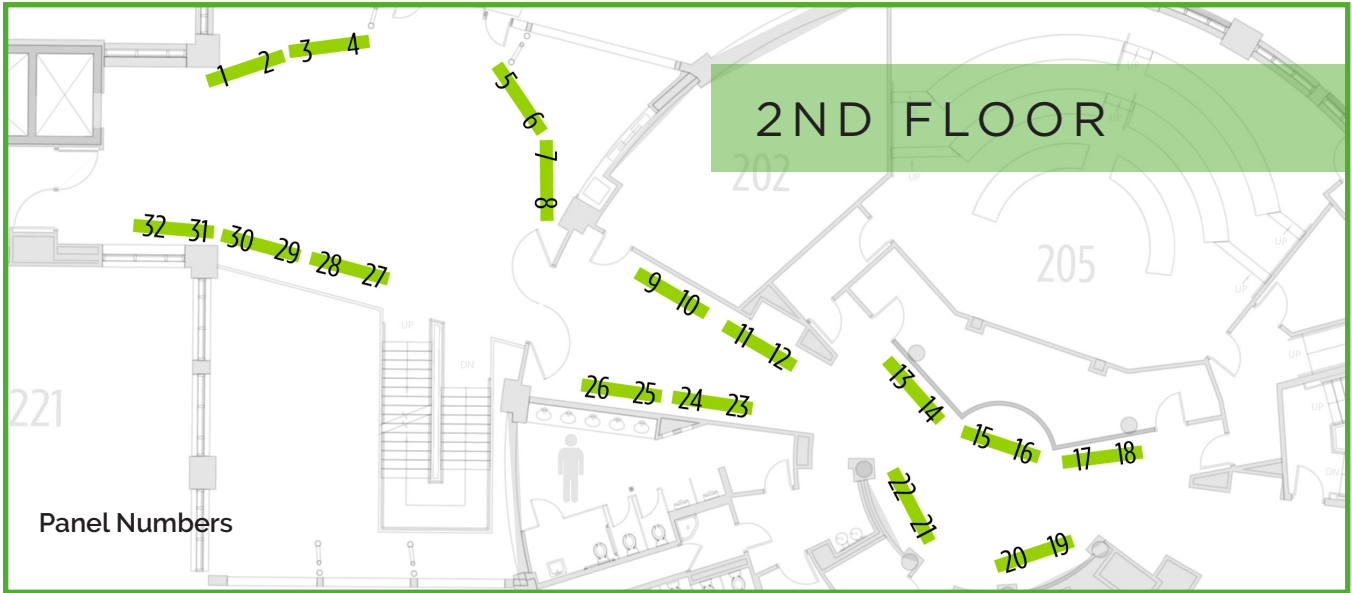
UNIVERSITY *of*
WEST FLORIDA

Hal Marcus College of
Science and Engineering

SURP

SUMMER
UNDERGRADUATE
RESEARCH PROGRAM

POSTER PRESENTATIONS MAP



FINANCIAL SUPPORT PROVIDED BY:

AppRiver

Ascend Performance Materials

Bear Family

Burr Family

CEDB Research

Department of Chemistry

Department of Earth and
Environmental Sciences

Department of Engineering

Gulf Power

Hal Marcus Research
Endowment

NIH MARC Scholars

NSF GEO Scholars

NSF S-STEM

Office of Undergraduate Research

Webb Electric

Be sure to stop by to say thank you to the Pensacola Section of the American Chemical Society for providing Bundtinis from *Nothing Bundt Cakes* - First floor lobby.

The Hal Marcus College of Science and Engineering (HMCSE) celebrates student-centered research by our faculty and research staff. The 2019 Summer Undergraduate Research Program (SURP) is the fifth year in which we have invested in an intensive undergraduate research experience requiring selected students to devote 250 or more hours to a research project under close supervision of a faculty mentor.

Additionally, HMCSE faculty mentor undergraduate and graduate students over the summer and throughout the year in other programs, from course-based research to graduate thesis projects. Thank you for joining us for today's celebration of all HMCSE and OUR summer research efforts by our faculty, staff, and students.

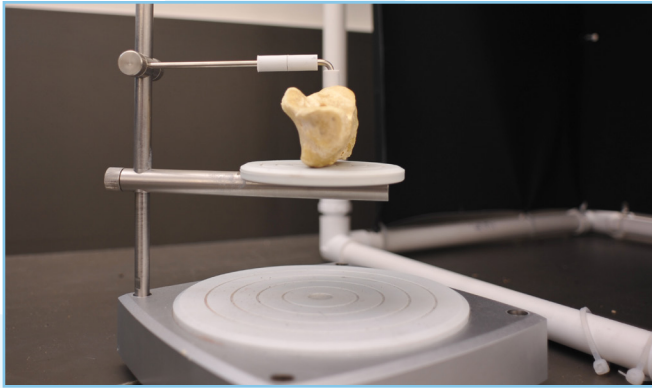


AGENDA

10:00 Poster Session

Poster presentations are listed by department with location as **Floor #/Panel #**

12:30 Lunch, 1st Floor



Leah Jordan 4/77
Scans, Skulls, and Specimens: Ethically Sourcing Fragmentary Skeletal Collections with 3D Scanning and Printing Technology
 Faculty Mentor(s): Allysha Winburn
 Funding or other research support: OUR

Karli Conti 2/7
Youth Coach Injury Prevention and Emergency Preparedness Modules
 Co-Author(s): Priya Pilla, Ashlee Viray
 Faculty Mentor(s): Chris Dake
 Funding or other research support: OUR

Ashlee Viray 2/7
Youth Coach Injury Prevention and Emergency Preparedness Modules
 Co-Author(s): Karli Conti, Priya Pilla
 Faculty Mentor(s): Chris Dake
 Funding or other research support: OUR

Thomas Akers 3/33
UWF Marine Vertebrate Specimen Collection Enhancement
 Faculty Mentor(s): Susie Piacenza
 Funding or other research support: Hal Marcus

Matthew Blum 2/25
Nucleophilic Aromatic Substitution of 2-Fluoropyridines
 Faculty Mentor(s): Tanay Kesharwani
 Funding or other research support: Ascend Performance Materials

Catherine Churchill 2/24
*Identifying the Effects of Microplastics on Oxidative Stress in Coquina Clams, *Donax variabilis**
 Faculty Mentor(s): Peter Cavnar
 Funding or other research support: OUR

Greg Ciangiotto 2/28
Simple, Rapid, and "Green" Synthesis of Copper(I) Acetylides
 Co-Author(s): Daniel LeMay, Wheeler Smith
 Faculty Mentor(s): Tim Royappa
 Funding or other research support: Hal Marcus

Madikay Faal 2/2
Synthesis of a Guanidinium-like Intermediate of a Macrocyclic Amine
 Co-Author(s): Kevan English, Christina Pizza, Ian Schneider
 Faculty Mentor(s): Ajay Lajmi, Tim Royappa
 Funding or other research support: Hal Marcus

Amy Fellgren 3/63
*An Analysis of Coquina Clam (*Donax variabilis*) Tissue for the Presence of Microplastics*
 Faculty Mentor(s): Alexis Janosik
 Funding or other research support: Burr Family

Megan Gulsby 2/4
*Investigating the Effects of Microplastics on *Donax Variabilis**
 Faculty Mentor(s): Hui-Min Chung
 Funding or other research support: OUR

Daniel LeMay 2/28
Simple, Rapid, and "Green" Synthesis of Copper(I) Acetylides
 Co-Author(s): Greg Ciangiotto, Wheeler Smith
 Faculty Mentor(s): Tim Royappa
 Funding or other research support: OUR

Jackson Reimer 3/41
Examining Nature Trails in the Southeast Through the Lens of Mehta's Public Space Index
 Faculty Mentor(s): Jocelyn Evans
 Funding or other research support: OUR

Emma Roberto 3/42
Verifying stereo-video camera length measurement by comparing hand capture methods of juvenile green sea turtles in Cape Eleuthera, The Bahamas
 Co-Author(s): Mentor Tabitha Siegfried
 Faculty Mentor(s): Susie Piacenza, Joseph Piacenza, and Dr. Nathan Robinson from Cape Eleuthera Institute
 Funding or other research support: Hal Marcus



Elivet Rodriguez 2/32
Synthesizing and Testing the Antimicrobial Activity of Novel Heterocyclic Compounds

Co-Author(s): Mia Vertudez
 Faculty Mentor(s): Prerna Masih
 Funding or other research support: Burr Family

Aleigh Rowe 3/34
An Assessment of Microplastic Presence and Knowledge in the Pensacola Metropolitan Area

Co-Author(s): Brianna Beecher, Linda Ivey
 Faculty Mentor(s): Alexis Janosik, Kwame Owusu-Daaku
 Funding or other research support: GEO Scholars

Peyton Sims 2/29
The Effect of Microplastics on the Lifespan and Reproduction of *D. melanogaster*

Faculty Mentor(s): Hui-Min Chung
 Funding or other research support: Hal Marcus

Wheeler Smith 2/28
Simple, Rapid, and “Green” Synthesis of Copper(I) Acetylides

Co-Author(s): Greg Ciangiatto, Daniel LeMay
 Faculty Mentor(s): Tim Royappa
 Funding or other research support: Burr Family

Emily Summers 2/26
Consenting Dementia Patients in Clinical Trials at the University of West Florida

Co-Author(s): Josh Cook, Alexandra Slobodian
 Faculty Mentor(s): Rodney Guttman, Kristina Robison
 Funding or other research support: OUR

Mia Vertudez 2/32
Synthesizing and Testing the Antimicrobial Activity of Novel Heterocyclic Compounds

Co-Author(s): Elivet Rodriguez
 Faculty Mentor(s): Prerna Masih
 Funding or other research support: OUR

Cara Womacks 4/72
DNA Barcoding of Crustacea from Artificial Reefs in the Gulf of Mexico

Faculty Mentor(s): Alexis Janosik
 Funding or other research support: Burr Family

Grace Worley 2/30
The Effects of Microplastics on the Aquatic Plant *Ceratophyllum Demersum*

Faculty Mentor(s): Hui-Min Chung
 Funding or other research support: NSF-SSTEM

Camila Medina Pacheco 4/71
Impact of Adapted Dance on Mood and Physical Function among Alzheimer’s Disease Assisted Living Residents

Faculty Mentor(s): Crystal Bennett
 Funding or other research support: OUR

Aimee Phillips 4/70
Synthesis of Novel Fluorophores with Pyridine Core Structure

Faculty Mentor(s): Tanay Kesharwani
 Funding or other research support: Hal Marcus & OUR

Ian Schneider 2/5
Synthesis of a Zinc Metalloenzyme Mimic

Co-Author(s): Christina Pizza
 Faculty Mentor(s): Ajay Lajmi
 Funding or other research support: Ascend Performance Materials

Alexandra Slobodian 2/26
Consenting Dementia Patients in Clinical Trials at the University of West Florida

Co-Author(s): Josh Cook, Emily Summers
 Faculty Mentor(s): Kristina Robison, Rodney Guttman
 Funding or other research support: OUR

Lauren Hamilton 3/62
Continuation of the Seasonal Microbial Ecology of Pensacola Beach

Faculty Mentor(s): Wade Jeffrey
 Funding or other research support: CEDB



Photo credit:
Michael Spoonybarger

Jani Ngalame 3/37
An Assessment of Vibrio Presence and Knowledge in a Subtropical Coastal Estuary

Co-Author(s): Niyiah Roney, Mark Prousalis
 Faculty Mentor(s): Lisa Waidner
 Funding or other research support: HMCSE



Kristina Samborski 4/93
Nutrient Concentration and Coliform Levels of Post-Rainfall Runoff in Bayou Grande
 Co-Author(s): Erika Neat-Headrick
 Faculty Mentor(s): Wade Jeffrey, Jane Caffrey, Barbara Albrecht
 Funding or other research support: MARC Scholars, OUR

Olivia Sanders 4/94
Spatial Patterns in Porewater Nutrients in Seagrass Beds
 Co-Author(s): Georgia Bailey, Michael Swords, Intern Emily Hotinger
 Faculty Mentor(s): Jane Caffrey
 Funding or other research support: OUR

Zahra Alikhani 4/69
Synthesis of Heterocycles via Electrophilic Sulfur and Carbon Cyclization
 Faculty Mentor(s): Tanay Kesharwani
 Funding or other research support: MARC Scholars

Taylor Best 2/3
Cooperative Catalytic Hydrolysis Using a Dinuclear Metalloenzyme Mimic
 Co-Author(s): Megan Gulsby, Joshua Moody, Madikay Faal
 Faculty Mentor(s): Ajay Lajmi
 Funding or other research support: Burr Family

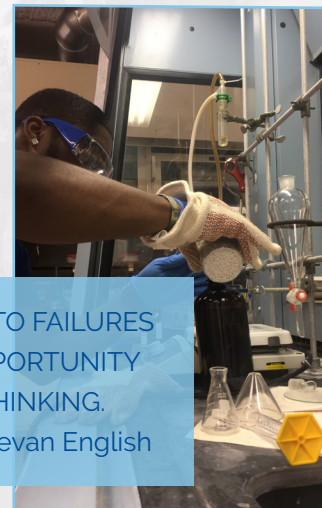
Alex Brodie 2/11
Synthesis and Characterization of Fluorescent Azaborine Compounds
 Co-Author(s): Elena Monat
 Faculty Mentor(s): Michael Huggins
 Funding or other research support: Ascend Performance Materials

Courtney Butler 2/13
Go New Belgium, Or Go Home, an Exploration of Off-Flavors in Beer
 Faculty Mentor(s): Karen Barnes

Amari DuBose 2/14
What's the Dill? A Determination of Adulteration in Spices by FTIR
 Faculty Mentor(s): Karen Barnes

Elfreda Dzukey 2/10
Synthesis and Characterization of Amino-substituted Fluorescent Azaborines
 Faculty Mentor(s): Michael Huggins
 Funding or other research support: Burr Family

Kevan James English 2/1
Selective Silyl Protection of Beta-Cyclodextrin Primary Alcohol
 Faculty Mentor(s): Ajay Lajmi
 Funding or other research support: OUR



RESEARCH EXPOSES ME TO FAILURES WHICH PROVIDES AN OPPORTUNITY TO IMPROVE INTUITIVE THINKING.
 - Kevan English

Carson Glaze 2/15
Inductively Coupled Plasma - Optical Emission Spectroscopy (ICPOS) vs. Conductivity for an Exploration of Seawater
 Co-Author(s): Morgan Tomas, Bailey Walkinshaw
 Faculty Mentor(s): Karen Barnes

Lauren Heidenreich 4/91
Wavelength Dependence Toxicity Using Various Oils
 Co-Author(s): Ian Parker
 Faculty Mentor(s): Pamela Benz
 Funding or other research support: Burr Family

Megan Hinrichsen 2/27
Alternative Synthetic Routes to Copper(I)-Based Trifluoromethylating Agents
 Faculty Mentor(s): Tim Royappa
 Funding or other research support: OUR

Kamryn Lewis 2/16
Pedagogical Exploration of Basil for General Chemistry Laboratories
 Faculty Mentor(s): Karen Barnes

Patrick Luciani 2/17
Motherhood and Apple Pie: Solid-Phase Microextraction of Cinnamon in Apple Pie
 Faculty Mentor(s): Karen Barnes

Max Lynch 2/18
Not Such A Secret, Fast Food Chicken by FTIR
 Faculty Mentor(s): Karen Barnes

Elena Monat 2/11
Synthesis and Characterization of Fluorescent Azaborine Compounds
 Co-Author(s): Alex Brodie
 Faculty Mentor(s): Michael Huggins
 Funding or other research support: MARC Scholars

Ian Parker 4/91
Wavelength Dependence Toxicity Using Various Oils
 Co-Author(s): Lauren Heidenreich
 Faculty Mentor(s): Pamela Benz
 Funding or other research support: MARC Scholars

Julia Schweg 2/23
MassWorks Analysis for Solid-Phase Microextraction Gas-Chromatography Mass Spectrometry of Bakery Products
 Faculty Mentor(s): Karen Barnes
 Funding or other research support: OUR

Morgan Tomas 2/15
Inductively Coupled Plasma - Optical Emission Spectroscopy (ICPOS) vs. Conductivity for an Exploration of Seawater
 Faculty Mentor(s): Karen Barnes

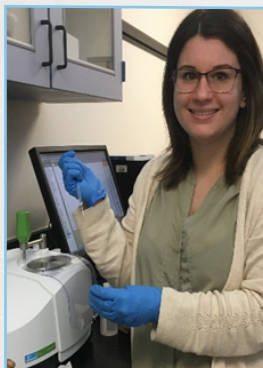
Bailey Walkinshaw 2/15
Inductively Coupled Plasma - Optical Emission Spectroscopy (ICPOS) vs. Conductivity for an Exploration of Seawater
 Co-Author(s): Carson Glaze, Morgan Tomas
 Faculty Mentor(s): Karen Barnes

Angelina Walling 2/19
Is Fresh Best? Organoleptic and GCMS Exploration of Fresh and Dry Spices
 Faculty Mentor(s): Karen Barnes

Katie Ellen Whalen 2/20
Spice up your life: Gas-Chromatography Mass Spectrometry of Spices
 Faculty Mentor(s): Karen Barnes

Katie Ellen Whalen 2/21
Morning Joe No Mo? The Determination of Furan in Coffee by GCMS
 Faculty Mentor(s): Karen Barnes

Jeff Wright 2/22
Raisin' the Bar on Iron Analyses
 Faculty Mentor(s): Karen Barnes



Andrew Hart 4/68
Sensor-Activated Shade and Light System for Greenhouses
 Faculty Mentor(s): Lakshmi Prayaga
 Funding or other research support: OUR

John Osmialowski 3/58
Development of a Mobile App for Electric Car Charging Stations
 Faculty Mentor(s): Brian Eddy
 Funding or other research support: Webb Electric

Samrutha Vakiti 4/67
An Optimization Based Approach for Assessing Resilience of Power Systems Under Coordinated Attacks
 Faculty Mentor(s): Bhuvanewari Ramachandran
 Funding or other research support: Gulf Power

Jason Banuelos 4/95
Predicting the Onset of Hypoxia Using Artificial Intelligence and Wearable Sensors
 Faculty Mentor(s): Dallas Snider
 Funding or other research support: Hal Marcus

John Chamblee 4/92
Secure SCADA
 Co-Author(s): Daniel Kelly
 Faculty Mentor(s): Sikha Bagui
 Funding or other research support: AppRiver

Daniel Kelly 4/92
Secure SCADA
 Co-Author(s): John Chamblee
 Faculty Mentor(s): Sikha Bagui
 Funding or other research support: Hal Marcus

Alexander R. King 3/55
Creating a Reinforcement Loop for Situational Awareness Training in Medical Environments
 Co-Author(s): Branden Mazour, Ryan McCourt, Sarah Pham
 Faculty Mentor(s): Brian Eddy, Thomas Reichherzer
 Funding or other research support: AppRiver

Branden Mazour 3/55
Creating a Reinforcement Loop for Situational Awareness Training in Medical Environments
 Co-Author(s): Alexander King, Ryan McCourt, Sarah Pham
 Faculty Mentor(s): Brian Eddy, Thomas Reichherzer
 Funding or other research support: AppRiver

Ryan McCourt 3/55
Creating a Reinforcement Loop for Situational Awareness Training in Medical Environments

Co-Author(s): Alexander King, Branden Mazour, Sarah Pham
 Faculty Mentor(s): Brian Eddy, Thomas Reichherzer
 Funding or other research support: OUR

Carlos Morales 3/54
Gamifying Coding Practice for Introductory Programming Students

Faculty Mentor(s): Brian Eddy
 Funding or other research support: AppRiver

Zachary Mueller 3/35
A Neural Network-based approach to Fingerprint Rouge Operating Systems

Faculty Mentor(s): Caroline Sangeetha John
 Funding or other research support: Hal Marcus

Zachary Mueller 3/36
An Analysis of Indoor Air Quality and Particulate Matter Concentrations

Co-Author(s): Simone Schuster
 Faculty Mentor(s): Amitabh Mishra
 Funding or other research support: Hal Marcus

Sarah Pham 3/55
Creating a Reinforcement Loop for Situational Awareness Training in Medical Environments

Co-Author(s): Alexander King, Branden Mazour, Ryan McCourt
 Faculty Mentor(s): Brian Eddy, Thomas Reichherzer
 Funding or other research support: AppRiver

Priya Pilla 2/7
Youth Coach Injury Prevention and Emergency Preparedness Modules

Co-Author(s): Kari Conti, Ashlee Viray
 Faculty Mentor(s): Chris Dake
 Funding or other research support: OUR



DR. PHILLIP SCHMUTZ ASSISTS STUDENTS WITH THEIR RESEARCH AT ONE OF THE MANY LOCAL BEACHES IN PENSACOLA

Brianna Beecher 3/34
An Assessment of Microplastic Presence and Knowledge in the Pensacola Metropolitan Area

Co-Author(s): Linda Ivey, Aleigh Rowe
 Faculty Mentor(s): Kwame Owusu-Daaku, Alexis Janosik
 Funding or other research support: OUR

Cooper Corey 3/59
Exploratory Data Analysis on Springtime Rainfall in the Gulf Coast, USA, 1949-2018

Co-Author(s): Cody Goins, Samuel Parmer
 Faculty Mentor(s): Jason Ortegren
 Funding or other research support: Hal Marcus

Savannah Jo Dean 3/64
The Social and Political Aspects of Harmful Algal Blooms

Co-Author(s): Molly Power, Shawnee Doling-Tye
 Faculty Mentor(s): Kwame Owusu-Daaku
 Funding or other research support: OUR

Fonda Laurell DeSantos 3/61
Classification and trends of storm types contributing to rapid drought cessation events (RDCEs) across the Southwest US

Co-Author(s): Emily Harris, Zack Black
 Faculty Mentor(s): Jason Ortegren
 Funding or other research support: OUR

Emily Fisher 3/56
Designing a walkability study to inform EV charging station locations: a university campus case study

Faculty Mentor(s): John (Derek) Morgan
 Funding or other research support: GEO Scholars

Cody Goins 3/59
Exploratory Data Analysis on Springtime Rainfall in the Gulf Coast, USA, 1949-2018

Co-Author(s): Samuel Parmer, Cooper Corey
 Faculty Mentor(s): Jason Ortegren
 Funding or other research support: OUR

Lindsay Gutting 3/40
Comparison of low-cost and research-grade UAV: eco-geomorphic structure

Co-Author(s): Delaney Beal, April Mendez, Kirt Wilson
 Faculty Mentor(s): Phillip Schmutz
 Funding or other research support: GEO Scholars



Emily Harmon 4/66

UWF Campus Ecosystem study: Longleaf pine and Gopher Tortoise populations in an Urban Interface

Co-Author(s): Skylar Boyles

Faculty Mentor(s): Frank Gilliam

Funding or other research support: Hal Marcus

Michael Hopko 3/60

Agricultural Land Use: The Effects on Soil Health in Northwest Florida

Faculty Mentor(s): Johan Liebens

Funding or other research support: Hal Marcus

Linda Ivey 3/34

An Assessment of Microplastic Presence and Knowledge in the Pensacola Metropolitan Area

Co-Author(s): Brianna Beecher, Aleigh Rowe

Faculty Mentor(s): Kwame Owusu-Daaku, Alexis Janosik

Funding or other research support: GEO Scholars

Adam Kohl 4/65

Community Engagement and Outreach (1st)

Faculty Mentor(s): Amber Bloechle

Funding or other research support: OUR

Molly Power 3/64

The Social and Political Aspects of Harmful Algal Blooms

Co-Author(s): Savannah Jo Dean, Shawnee Doling-Tye

Faculty Mentor(s): Kwame Owusu-Daaku

Funding or other research support: OUR

Timothy Roberts 4/96

A Methodological Examination of Utilizing a Terrestrial Micro-LiDAR Sensor to Measure Topographical Change

Faculty Mentor(s): Phillip Schmutz

Niyiah Roney 3/37

An Assessment of Vibrio Presence and Knowledge in a Subtropical Coastal Estuary

Co-Author(s): Jani Ngalame, Mark Prousalis

Faculty Mentor(s): Kwame Owusu-Daaku

Funding or other research support: GEO Scholars

Simone Schuster 3/36

An Analysis of Indoor Air Quality and Particulate Matter Concentrations

Co-Author(s): Zachary Mueller

Faculty Mentor(s): Phillip Schmutz, Amitabh Mishra

Funding or other research support: GEO Scholars

Anthony Vilar 4/89

General Analysis of Florida Rainfall Variability During Rainy Season

Co-Author(s): Mae Daigle

Faculty Mentor(s): Jason Ortegren

Funding or other research support: Hal Marcus

Nathanial Winn 4/90

Observations of tidal influence on porewater nutrients in a submarine groundwater discharge zone

Faculty Mentor(s): Matthew Schwartz

Funding or other research support: OUR

Rafael De Sa Lowande 3/53

Allocating Charging Stations to EVs using a Distance Based Approach

Faculty Mentor(s): Bhuvanewari Ramachandran

Funding or other research support: Webb Electric

Andrew Evangelista 3/57

Optimal Siting of Electric Vehicle Charging Station Infrastructure Using GIS

Faculty Mentor(s): Bhuvanewari Ramachandran

Funding or other research support: HMCSE

Erik C. LaBrot 4/83

Dynamic Systems Control for a Variable Edge Vertical Axis Wind Turbine

Faculty Mentor(s): Sam Russel

Funding or other research support: Gulf Power

April Mendez 3/40

Comparison of low-cost and research-grade UAV: eco-geomorphic structure

Co-Author(s): Lindsay Gutting, Delaney Beal, Kirt Wilson

Faculty Mentor(s): Phillip Schmutz

Funding or other research support: GEO Scholars

Scotty Pierce 3/52

Modeling Optimal Load Dispatch in a Microgrid with Variable Penetration Levels of Electric Vehicles

Faculty Mentor(s): Bhuvanewari Ramachandran

Funding or other research support: Hal Marcus

Christian A. Rosa 3/51***Novel Solution to Identify Charging Stations for Electric Vehicles***

Faculty Mentor(s): Bhuvanewari Ramachandran

Funding or other research support: Hal Marcus

Brad Stephen 4/85***Solar Powered CO2 and Soil Temperature Monitor and Data Logger***

Faculty Mentor(s): Sam Russel

Funding or other research support: Hal Marcus



IT IS INCREDIBLY REWARDING TO APPLY THE FOUNDATIONAL INFORMATION GAINED IN THE CLASSROOM TO DESIGN AND BUILD TECHNOLOGY THAT STUDENTS AND FACULTY WILL USE FOR YEARS TO COME.

- Brad Stephen

INFORMATION TECHNOLOGY

Daniel Tancredi Amorim 4/86***Automated Sun Tracking System for Solar Arrays***

Faculty Mentor(s): Sam Russel

Funding or other research support: OUR

INSTRUCTIONAL DESIGN

Chloe Diehl 2/31***Developing an Evaluation Instrument for Teaching Behavior Intervention Techniques for Workforce Integration***

Faculty Mentor(s): Fredrick Baker

Funding or other research support: OUR

Alyssa Borelli 4/73***Park Cleanliness in Escambia County: A Citizen Science Project with a Lesson Plan Outcome***

Faculty Mentor(s): Anthony Okafor

Parker Heide 4/74***Forecasting using regression models and combined forecasts***

Faculty Mentor(s): Achraf Cohen

Funding or other research support: OUR

Samuel Parmer 3/59***Exploratory Data Analysis on Springtime Rainfall in the Gulf Coast, USA, 1949-2018***

Co-Author(s): Cody Goins, Cooper Corey

Faculty Mentor(s): Anthony Okafor

Funding or other research support: GEO Scholars

Amber Weydert 3/38***Finite Sample Properties of an Exponential-Compound Symmetric Mixed Covariance Structure***

Faculty Mentor(s): Samantha Seals

Funding or other research support: Hal Marcus

Kirt Wilson 3/39***Comparison of low-cost and research-grade UAV: statistical analysis***

Co-Author(s): Delaney Beal, Lindsay Gutting, April Mendez

Faculty Mentor(s): Samantha Seals

Funding or other research support: GEO Scholars

Clark Bailey 3/46***Gathering your 'sea legs': Examining the effect of prolonged exposure to boat translations at sea on human postural control***

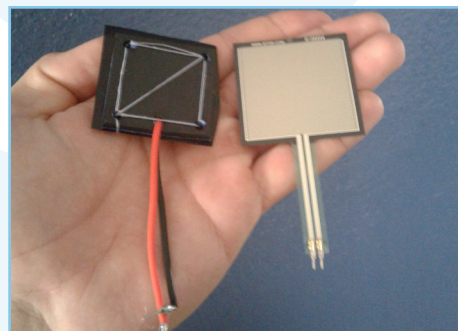
Faculty Mentor(s): Jeffrey Simpson

Funding or other research support: OUR

Brendon Becker 3/47***Intelligent Environment Tracking Apparatus***

Faculty Mentor(s): Yazan Alqudah

Funding or other research support: OUR



Luke Fina 3/48
Experimental Analysis of Robust Trajectory Tracking Controller for UAVs under Steady Wind Conditions
 Faculty Mentor(s): Hakki Erhan Sevil
 Funding or other research support: Bear Family



Kevin Gossett 3/43
Computational Fluid Dynamics Modeling of a Truck Model with Drag Reduction Devices
 Faculty Mentor(s): Cheng Zhang

Marcus Jackson 3/45
Validation of Numerically Controlled Manufacturing Processes
 Faculty Mentor(s): Joseph Piacenza
 Funding or other research support: OUR

James Lewis 2/9
Technology Support for Law Enforcement (2d)
 Co-Author(s): Liam Hilton-Green
 Faculty Mentor(s): Donovan Chau
 Funding or other research support: OUR

Simon Marchetti 2/8
Using a High-speed Imaging System to Characterize Flow and Mechanochemical Effects in Plastic Deformation of Metals
 Faculty Mentor(s): James Mann
 Funding or other research support: Bear Family

Nash Mounla 3/44
Ship Hull Drag Reduction using Computational Fluid Dynamics
 Faculty Mentor(s): Cheng Zhang
 Funding or other research support: Hal Marcus

Shane Smith 4/84
Air Speed Smart Sensor Network
 Faculty Mentor(s): Sam Russel

MOVEMENT SCIENCES & HEALTH

Krystin Lehtola 2/6
Feelin' the motion of the ocean: Age-related changes in postural control variability following an extended duration in a marine environment
 Faculty Mentor(s): Jeffrey Simpson
 Funding or other research support: OUR

Delaney Beal 3/39
Comparison of low-cost and research-grade UAV: statistical analysis
 Co-Author(s): Lindsay Gutting, April Mendez, Kirt Wilson
 Faculty Mentor(s): Samantha Seals
 Funding or other research support: GEO Scholars

Anamar Borja Ceballos 4/75
Playing a losing hand: The impact of sleep loss on risk-taking behaviors
 Co-Author(s): Eric Bolter
 Faculty Mentor(s): Gail Han
 Funding or other research support: OUR

Ashlyn Doty 3/49
Attitudes Towards Menstruation in College Women and Men
 Faculty Mentor(s): Gail Han
 Funding or other research support: OUR

Jessica Mizrahi 4/76
Reeling with the feeling: Beliefs about stress when sleep deprived
 Co-Author(s): Anamar Borja Ceballos, Amanda Fayard
 Faculty Mentor(s): Gail Han
 Funding or other research support: OUR

Claney Outzen 4/88
Contextual Factors of Preschoolers' Effortful Control: Chaotic Environments and Parenting Stress
 Faculty Mentor(s): Kimberly Day
 Funding or other research support: OUR

Sadan (Dan) Yagci 3/50
Contact Sports, Moral Disengagement and Youth Aggression in Southern China
 Faculty Mentor(s): Gail Han, Robert Rotunda, Chenxiang Song

Liam Hilton-Green 2/9
Technology Support for Law Enforcement (2d)
 Co-Author(s): James Lewis
 Faculty Mentor(s): Donovan Chau
 Funding or other research support: OUR



CONDUCTING FIELD RESEARCH AT PENSACOLA BEACH WITH MY MENTOR DR. SIMPSON THROUGH SURP ALLOWED ME TO GAIN INSIGHT ON THE ENDLESS POSSIBILITIES, OUTREACH, AND IMPACT RESEARCH HAS NOT ONLY TO MY UWF EDUCATION, BUT TO OUR LOCAL COMMUNITY AS WELL!

- Krystin Lehtola, Senior
Movement Sciences and Health, UKCOH

I LIKE PRESENTING AT SURP BECAUSE IT ALLOWS ME TO COMMUNICATE WITH OTHERS FROM MY FIELD WHO ARE DOING SIMILAR RESEARCH OR THOSE FROM DIFFERENT FIELDS WHO CAN HELP ME WITH FUTURE WORK.

- Simone Schuster, Senior GEO Scholar
Earth and Environmental Sciences, HMCSE

I THINK SURP HAS GIVEN ME THE OPPORTUNITY TO WORK AND LEARN AT THE SAME TIME. HAVING THE OPPORTUNITY TO DO RESEARCH, WORK WITH FACULTY MEMBERS, AND LEARN ABOUT PRESENTING AND WRITING RESEARCH PROJECTS IS SOMETHING VERY IMPORTANT FOR EVERY STUDENT, AND SURP HAS MADE THIS POSSIBLE FOR ME. THANK YOU!

- Camilia Medina Pacheco, Senior
Biomedical Sciences, HMCSE



Presentation on the 4th floor, panel #71.

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