

Abdel-Karim, Salma #22

Category: Basic or Experimental Research

Title: Anti-Inflammatory Activity of Isoflavones from Pigeon Pea Hairy Root Cultures in RAW 264.7 Macrophages

Faculty Mentor: Fabricio Medina-Bolivar

Abid, Ahesanul #137

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Which AI for What? An AI Value Index for Small Business Adoption

Faculty Mentor: Pankaj Nagpal

Aftab, Md Reduan #71

Category: Basic or Experimental Research

Title: Enhancing Concrete Sustainability: A Circular Economy Approach Using CO₂ Curing

Faculty Mentor: Zahid Hossain

AHMED, IFAZ #159

Category: Quality Assessment or Quality Improvement

Title: Developing A Framework for Efficient Scheduling of Operations of Steel Production

Faculty Mentor: Alexandr Sokolov

Andrews, Allyssa #135

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Recruitment of African Americans to Teach Agricultural Education: A Systematic Literature Review

Faculty Mentor: Nina Crutchfield

Archer, Ian #168

Category: Quality Assessment or Quality Improvement

Title: Overview of Steel Research and Testing in the United States

Faculty Mentor: Rajesh Sharma

Armstrong, Jadus #105

Category: Decline to participate in judging

Title: The Economic Impact of AI Adoption in Precision Agriculture

Faculty Mentor: GwanSeon Kim

Aweis, Ashlei #111

Co-Presenters: Cambria Grissom, Faith Welch

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Effective Non-Pharmaceutical Interventions for Reducing Negative Behaviors of Older Adults with Alzheimer's Disease: A scoping review

Faculty Mentor: Christine Wright

Balmaceda Cuenca, Carlos #51

Co-Presenters: Megha Goyal, Anubhav Pal

Category: Basic or Experimental Research

Title: Producing Oral Medicines in Lettuce to Fight Chronic Diseases

Faculty Mentor: Jianfeng Xu

Bamunusingha, Mahesh #6

Category: Basic or Experimental Research

Title: Soil Type Dominates Rhizosphere Microbiome Structure, Revealing Core and Specific Bacterial Taxa in Soybean

Faculty Mentor: Asela Wijeratne

Batchelor, Tiffany #37

Category: Basic or Experimental Research

Title: Purr-spectives: Connections Between Feline Coat Color and Human Preferences and Perceptions in Northeast Arkansas

Faculty Mentor: Jerica J. J. Rich

Bautista, Mauricio #58

Co-Presenters: Jesus Cortes, Christian Lopez, Josh Sutton, Will Owens, Michael Saunders, Jayden Pace, Sebastian Klein, Hugo Robles, Zane Coletta, Seth Matocha

Category: Basic or Experimental Research

Title: Development of a Liquid Propellant Rocket Engine with Integrated Water-Based Cooling Jacket

Faculty Mentor: Kwangkook Jeong

Bennett, Brandon #92

Category: Basic or Experimental Research

Title: Effects of Exercise Intensity and Body Mass Index on Reaction Time in Physically Active Adults

Faculty Mentor: Veronika Scudamore

Bess, Sarah #60

Co-Presenters: Autumn Goforth, Maranda Jones

Category: Basic or Experimental Research

Title: Relationship Attitudes and Media

Faculty Mentor: Karen Yanowitz

Beyer, Moriah #23

Co-Presenters: Haydyn Friend

Category: Basic or Experimental Research

Title: Establishment of hairy root cultures of Glycyrrhiza lepidota for enhanced production of bioactive metabolites

Faculty Mentor: Fabricio Medina-Bolivar

Bhattarai, Sonu #108

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Soybean Transcription Factor Network in Response to Phytophthora sojae

Faculty Mentor: Asela Wijeratne

Bhattarai, Saroj #45

Category: Basic or Experimental Research

Title: Rice Production Suitability Assessment Across Arkansas, Louisiana, Missouri, and Mississippi Using pH, Drainage, Hydric Rating, and Land Cover Data

Faculty Mentor: John Nowlin

Bishop, Morgan #99

Category: Creative Work

Title: One Wardrobe, Endless Possibilities: A Visual Merchandising Strategy for Uniqlo Menswear

Faculty Mentor: Melissa Thompson

Blickenstaff, Anna #170

Co-Presenters: Hanna Hollenberg, Katlin Daniel

Category: Quality Assessment or Quality Improvement

Title: Impact of Evidence-Based Education on the Effects of Excessive Screen Time Among SRNAs

Faculty Mentor: Virginia Baltz

Castegnaro Angeles, Chiara Giovanna #7

Co-Presenters: Emilia Gomez Lopez

Category: Basic or Experimental Research

Title: Comparative Analysis of Sanger and Oxford Nanopore Sequencing for 16S rRNA-Based Bacterial Identification

Faculty Mentor: Asela Wijeratne

Chaudhary, Ravi #1

Co-Presenters: Reinier Gesto-Borroto, Bishnu Joshi, Alexander Flores

Category: Basic or Experimental Research

Title: Plant and Root Phenotyping at the Arkansas Biosciences Institute Using Low-Cost Imaging Approaches

Faculty Mentor: Argelia Lorence

Choi, Sooyeong #115

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Understanding Demographic and Market Drivers of Rice Spending in the U.S.

Faculty Mentor: Gwanseon Kim

Chowdhury, Siam #132

Category: Observational, Descriptive, or Cross-Sectional Research

Title: In Silico Structure-Based Computational Studies of Novel Compounds Involving Advanced Binding Affinity Prediction and Protein Target Site Characterization.

Faculty Mentor: Mohammad Abrar Alam

Clardy, Canyon #15

Category: Basic or Experimental Research

Title: Negative Index Materials Within A Relativistic Framework

Faculty Mentor: Cheyenne Sheppard

Clark, Dorise #110

Category: Observational, Descriptive, or Cross-Sectional Research

Title: The Rate of Burnout in Athletic Trainers' in Collegiate Settings

Faculty Mentor: Carlitta Moore

Coleman, Bryan #171

Co-Presenter: Joseph Capucetti

Category: Quality Assessment or Quality Improvement

Title: Enhancing Clinical Knowledge Retention Through Education on the Anki Flashcard System

Faculty Mentor: Virginia Baltz

Cook, Joshua #172

Co-Presenters: Jared Barker, Andrew Shipp

Category: Quality Assessment or Quality Improvement

Title: Virtual Reality for Anxiety Relief in Pre-operative Patients

Faculty Mentor: Virginia Baltz

Covington, Karson #91

Category: Basic or Experimental Research

Title: Soil and water conservation practices influence on water quality and methane flux in Northeast Arkansas rice and soybean fields.

Faculty Mentor: Tina Teague

Cox, Christopher #165

Co-Presenters: Jillian Scott, Colter Hinchey

Category: Quality Assessment or Quality Improvement

Title: Education on Medications Effective in Treating Acute Migraine Related to General Anesthesia

Faculty Mentor: Lee Hammon

Crosskno, Quinn #109

Co-Presenters: Ben Smith, Ty Pinkus, Gage Rolwing

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Shoulder Instability in Rugby Athletes

Faculty Mentor: Brendon Aitken

Crowell, Alaina #90

Category: Basic or Experimental Research

Title: Musculoskeletal Conditions- Erdheim-Chester Disease and More

Faculty Mentor: Tyler Hester

Das, Arpan #167

Category: Quality Assessment or Quality Improvement

Title: Rheological Performance Characterization of High-RAP Asphalt Binder Modified with Bio-Based and Petroleum-Derived Rejuvenating Additives

Faculty Mentor: Zahid Hossain

Davis, Cali #67

Category: Basic or Experimental Research

Title: Hungry for Plastic: Dietary Conditioning of Waxworms to Enhance Plastic Biodegradation

Faculty Mentor: Maureen Dolan

Dulaney, Mitchell #31

Category: Basic or Experimental Research

Title: Robust Thermodynamic Analysis of Flexible Protein-Ligand Binding Using a Statistical Mechanics Framework

Faculty Mentor: Hideya Koizumi

Dunlap, Zachary #150

Co-Presenters: Landon Valden, Haden Yancey

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Hippotherapy Treatment for Cerebrovascular Accidents

Faculty Mentor: Rachel Wilkins

Dunn, Mekayla #40

Category: Basic or Experimental Research

Title: Cerebral Cavernous Malformations

Faculty Mentor: Jessica Cooper

Easley, Zachary #121

Category: Observational, Descriptive, or Cross-Sectional Research

Title: UPRIGHT GANTRY-LESS PROTON TREATMENT FOR HEAD/NECK AND BRAIN MALIGNANCIES

Faculty Mentor: Jody Nutt

Eckert, Riley #41

Co-Presenter: Stephanie Flores

Category: Basic or Experimental Research

Title: Detecting Child Abuse in Radiology

Faculty Mentor: Jessica Cooper

Edrington, Abbey #112

Co-Presenters: Shelby Russellpy, Adrianna McEntire, Tianna Matthews

Category: Observational, Descriptive, or Cross-Sectional Research

Title: The Benefits of Nature-Based Therapy for Children with Autism Spectrum Disorder: A Scoping Review

Faculty Mentor: Christine Wright

Edwards, Olivia #59

Category: Basic or Experimental Research

Title: Prioritizing Health Over Aesthetics: Reforming Brachycephalic Breed Standards

Faculty Mentor: Kristen Wallis

Ehie, Damien #78

Category: Basic or Experimental Research

Title: Ethnic and Cultural Amalgamation in Buenos Aires and the Evolution of Argentine Tango

Faculty Mentor: Nicholas Balla

Eldridge, Matti #139

Co-Presenters: Cailin Jones, Frances Harness, Leah Edmaiston

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Read, Write, Pair, Share-Tag Edition!

Faculty Mentor: Ryan Kelly

Fiedor, Taylor #127

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Getting there is everything: Dispersal limitation overrides environmental filtering in freshwater snails

Faculty Mentor: Kyle Gustafson

Flores Ortiz, Daniela #52

Category: Basic or Experimental Research

Title: Production of Strategically Designed Nerve Growth Factor molecule in Tobacco Plants and BY-2 cells

Faculty Mentor: Jianfeng Xu

Foster, Trinity #138

Co-Presenters: Brette Shannon, Elizabeth Gee-Weiler

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Building Prefix Knowledge in First Grade Through the “Prefix-O” Vocabulary Game

Faculty Mentor: Ryan Kelley

Frans, Lauren #173

Co-Presenters: Darcee Halbrook, Hannah Tadlock

Category: Quality Assessment or Quality Improvement

Title: Educating Anesthesia Providers on Evidence-Based Interventions to Prevent Postoperative Delirium in the Geriatric Population

Faculty Mentor: Virginia Baltz

Friend, Haydyn #24

Co-Presenter: Moriah Beyer

Category: Basic or Experimental Research

Title: Induction of hairy root cultures of *Lespedeza capitata* as a platform for phytochemical production

Faculty Mentor: Fabricio Medina- Bolivar

Gambaro, Maria #53

Category: Basic or Experimental Research

Title: Transgenic Plant Cells for the Cost-Effective Production of Pharmaceutical Proteins

Faculty Mentor: Jiafeng Xu

Garcia Valdez, Anahi #3

Co-Presenter: Diego Martines

Category: Basic or Experimental Research

Title: Variation in Infection Prevalence of *Splendidofilaria pectoralis* Across Alaskan Grouse Populations

Faculty Mentor: Andrew Sweet

Ghimire, Muskan #79

Category: Basic or Experimental Research

Title: Potential of Biochar to Improve the Physical Properties and Moisture Characteristics in Sandy and Loamy Soil of Northeast Arkansas

Faculty Mentor: Nelson (Ray) Benson

Gibbons, Rachel #174

Co-Presenters: Wesley Johnson, Rachel Cartillar

Category: Quality Assessment or Quality Improvement

Title: Enhancing Anesthesia Practice by Evaluating the Impact of Evidence-Based Education on the Utilization of Preoperative Gastric Ultrasound for Patients on GLP-1 Agonists

Faculty Mentor: Virginia Baltz

Gilbert, Oscar #82

Co-Presenter: Tianxiang Chu

Category: Basic or Experimental Research

Title: How Rational Is AI Investment Advice? Risk-Return Relevance in Artificial Intelligence (AI) Investments

Faculty Mentor: Nanying Lin

Gipson, Michael #44

Category: Basic or Experimental Research

Title: Laser ablation-atomic absorption spectroscopy of yttrium plasma

Faculty Mentor: Jonathan Merten

Glasgow, Julie #140

Co-Presenters: Raegan Long, Sara Ford

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Text Impressions

Faculty Mentor: Ryan Kelly

Goyal, Megha #54

Co-Presenter: Anubhav Pal

Category: Basic or Experimental Research

Title: Genetic Engineering of Lettuce for Therapeutic Protein Production

Faculty Mentor: Jianfeng Xu

Graham, Karli #141

Co-Presenters: Madelyn Herndon, Katelynn Tedder, London King

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Teaching Writing with Story Elements

Faculty Mentor: Ryan Kelly

Grigg, Anna #16

Co-Presenters: Kaitlyn Peavy, Katelyn Childers, Morgan Mahan

Category: Basic or Experimental Research

Title: Effective Handwriting Interventions in School-Aged Children: A Scoping Review

Faculty Mentor: Christine Wright

Griggs, John #38

Co-Presenter: Noah Chapman

Category: Basic or Experimental Research

Title: Synthesizing Fluorescent 3,4-dihydropyrimidin-2(1H)-ones Using a One-Pot Synthesis Reaction

Faculty Mentor: John Hershberger

Gschwandeegger, Franz #33

Category: Basic or Experimental Research

Title: Output-Unemployment Relationship in Arkansas: A New Test

Faculty Mentor: Huiqiang Wang

Hameedi, Zoha #149

Co-Presenters: Scarlett Saitta, Jade Steins, Carson Craft

Category: Observational, Descriptive, or Cross-Sectional Research

Title: From Touch to Data: Quantifying Palpatory Skill in Osteopathic Manipulative Medicine (OMM) Using Finger Tactile Pressure Sensing (FTPS)

Faculty Mentor: Rajendram Rajnarayanan

Hartness, Haley #120

Co-Presenters: Patrick McNicholas, Charlotte Howard, Zachary Vondran, Joseph Hargrave

Category: Observational, Descriptive, or Cross-Sectional Research

Title: An Examination of State Departments of Education Special Education Assessment Guidelines for Autism Spectrum Disorder

Faculty Mentor: John Hall

Harvey, Kyle #8

Co-Presenter: Mahesh Bamunusingha

Category: Basic or Experimental Research

Title: Phosphate Solubility of Soybean Rhizosphere Bacteria Cultures

Faculty Mentor: Asela Wijeratne

Henderson, Keyonna #46

Category: Basic or Experimental Research

Title: Radiation Beyond the Beam: Understanding the Abscopal Effect in Modern Radiation Therapy

Faculty Mentor: Jody Nutt

Hennings, Laura #35

Category: Basic or Experimental Research

Title: A Cord of Three Strands is not Quickly Broken: The Fortitude of Arkansas Women's Activism

Faculty Mentor: Justin Castro

Henry, Anissa #151

Co-Presenters: Macy McCormic, Sydney Guthrie, Adam Oas

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Effects of Hippotherapy on Hypotonic Disorders in the Pediatric Population

Faculty Mentor: Rachel Wilkins

Hime, Makiah #142

Co-Presenters: Haley Nash, Daveena Gunn

Category: Observational, Descriptive, or Cross-Sectional Research

Title: From Scribbles to Scholars: Mastering Vocabulary with Four Squares

Faculty Mentor: Ryan Kelly

Hines, Angelina #47

Category: Basic or Experimental Research

Title: AVATAR AND PROMISE: ANESTHESIA ALTERNATIVES FOR PEDIATRICS IN RADIATION

Faculty Mentor: Jody Nutt

Hisson, Sara #154

Co-Presenter: Marissa Brown

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Construct Validity of the Global Well-being Index to identify mental health issues in military veterans

Faculty Mentor: Scott Bruce

Holloway, Matthew #88

Category: Basic or Experimental Research

Title: The Language of Crisis: How Data Breaches Affect Sentiment in MD&A Disclosures

Faculty Mentor: Steven Muzatko

Horne, Jamie #122

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Radiation Therapy for Chronic Plantar Fasciitis: A Clinical Case Study

Faculty Mentor: Jody Nutt

Houston, jaymeson #101

Co-Presenters: Alexis Billings, Macy Lamb

Category: Creative Work

Title: Narrative writing

Faculty Mentor: Ryan Kelly

Huffer, Cassie #175

Co-Presenters: Hannah Jessup, Catherine Gaschen

Category: Quality Assessment or Quality Improvement

Title: SRNA Wellness Recognition and Improvement through Evidence-Based Education: A Quality Improvement Project

Faculty Mentor: Virginia Baltz

Huffmaster, Elizabeth #161

Category: Quality Assessment or Quality Improvement

Title: From Sequence to Skill: Building Argumentative Writers Through Structured Inquiry

Faculty Mentor: Dixie Keyes

Jarrett, Andrew #13

Co-Presenters: Sapun Sunar, Kambree Jackson

Category: Basic or Experimental Research

Title: Ultraviolet Absorption Studies of Fe in a LIBS Plasma Using Tunable Picosecond and Nanosecond Lasers

Faculty Mentor: Jeffery Johnson

Jeevan, Mishka #68

Category: Basic or Experimental Research

Title: Enzyme-Based Strategies for Plastic Waste: Investigating Polyphenol Oxidases in Galleria mellonella Saliva

Faculty Mentor: Maureen Dolan

Jeevan, Mishka #9

Co-Presenter: Daniela Flores

Category: Basic or Experimental Research

Title: Identifying Beneficial Rhizosphere Microbial Communities to Protect Soybeans from Sudden Death Syndrome

Faculty Mentor: Asela Wijeratne

Jeon, Seungho #87

Category: Basic or Experimental Research

Title: Future = AI + Database: A Structured Framework for AI in Education

Faculty Mentor: H. Steve Leslie

Johnson, Kyle #20

Category: Basic or Experimental Research

Title: An Investigation into Relish Activation as a Temporal Switch in Neurodegeneration

Faculty Mentor: Edward Schmid

Jones, Lauren #162

Category: Quality Assessment or Quality Improvement

Title: Designing for Engagement: A Pedagogical Critique of a Scaffolded Experiential Learning Simulation

Faculty Mentor: Dixie Keyes

Jones, Maranda #61

Co-Presenters: Sarah Bess, Autumn Goforth

Category: Basic or Experimental Research

Title: Teacher based evaluation of BRIDGE partnership program

Faculty Mentor: Karen Yanowitz

Jones, Emma #143

Co-Presenters: Madison Jackson, Kallie Costner

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Producing Predications

Faculty Mentor: Ryan Kelly

Jones, Akira #155

Co-Presenters: Zaneta Weldon

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Athletic Training and Sudden Death in Secondary School Athletes

Faculty Mentor: Scott Bruce

Jones, Graysen #63

Category: Basic or Experimental Research

Title: Inhibitory Effects of Novel Compounds on Biofilm Formation in Streptococcus mutans

Faculty Mentor: Mohammad Abrar Alam

Jordan, Halie #129

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Intraoperative MRI

Faculty Mentor: Kendall Youngman

Joshi, Bishnu #2

Co-Presenters: Reinier Gesto-Borroto, Alexander Flores, Tatyana Herrien, Merone Kebede, Ali Abdel-Karim, Ravi Chaudhary

Category: Basic or Experimental Research

Title: Integrated computational biology with Raspberry Pi-based high-throughput phenotyping to identify putative drought-tolerant rice landraces

Faculty Mentor: Argelia Lorence

Judy, Katherine #126

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Differences in Medical Care as Experienced by Arkansas State University Students
Abstract

Faculty Mentor: Katharine Camden

Jung, Yeojin #18

Co-Presenter: Yejeong Youn

Category: Basic or Experimental Research

Title: Machine Learning-Based Prioritization of Antibiotic Susceptibility Testing Using Whole-Genome Data

Faculty Mentor: Donghoon Kim

Kafle, Kamana #136

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Who will grow our food in the future? Factors Influencing A-State Agricultural Student's Intentions to Enter Production Agriculture

Faculty Mentor: Nina Crutchfield

Kafle, Kamana #17

Category: Basic or Experimental Research

Title: Is Arkansas Rice Waste a Liability or a Solar-Storable Fuel? Direct Solar-Powered Hydrothermal Treatment for Biomethane Recovery

Faculty Mentor: Chiqian Zhang

Karim, Saydul #25

Co-Presenters: Moriah Beyer, Carrie Cox

Category: Basic or Experimental Research

Title: Soybean (Glycine max) hairy root cultures for the enhancement of anti-inflammatory and antioxidant isoflavonoid production

Faculty Mentor: Fabricio Medina- Bolivar

Karmoker, Jarna #28

Co-Presenters: Rutu Mahajan

Category: Basic or Experimental Research

Title: CAP1 mediates the cAMP regulation of adhesion and proliferation of Schwann cell in the peripheral nervous system

Faculty Mentor: Guolei Zhou

Kasireddy, Sravya #134

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Can Eye-Tracking Predict Survey Choices? The case of Financial Risk Tolerance

Faculty Mentor: Farhad Moeeni

Kaur, Simranjit #94

Category: Basic or Experimental Research

Title: Vibrations of Tapered Beams via the Exterior Matrix Method

Faculty Mentor: William Paulsen

Kellar, Katelin #55

Co-Presenter: Shekoofe Sadravi

Category: Basic or Experimental Research

Title: Establishing Inducible Expression Platforms for Controlled Recombinant Protein Production in BY-2 Suspension Cells

Faculty Mentor: Jianfeng Xu

Kendall, Anna #14

Category: Basic or Experimental Research

Title: The Digital Museum: Classical Reception in Animal Crossing New Horizons

Faculty Mentor: Caitlan Smith

King, Kalayna #84

Category: Basic or Experimental Research

Title: Comparison of Levels of BMI, Stress, and Depression of Women During the Prenatal Period Relative to Their Activity Levels

Faculty Mentor: Ronald Johnson

Lakshika KK, Sachini #10

Category: Basic or Experimental Research

Title: Understanding the Role of DNA Demethylases in Epigenetic Regulation of Soybean Defense

Faculty Mentor: Asela Wijeratne

Lamb, Maddyson #113

Co-Presenters: Sarah Campbell-Morgan, Shelton Jones

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Current Forensic Occupational Therapy Practice: A Scoping Review

Faculty Mentor: Christine Wright

Leddy, Kaylee #64

Category: Basic or Experimental Research

Title: Synthesis and Evaluation of Thiazole Derivatives as Potential Antitumor Agents

Faculty Mentor: Mohammad Abrar Alam

Lee, June #56

Co-Presenter: Shekoofe Sadravi

Category: Basic or Experimental Research

Title: Engineering High-Activity Endogenous Promoters in Tobacco BY-2 Cells for Enhanced Recombinant Protein Production

Faculty Mentor: Jianfeng Xu

Leslie, Anna #144

Co-Presenters: Allison McCanless, Emily Wigginton

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Advancing Vocabulary Skills By Making Word Connections

Faculty Mentor: Ryan Kelly

Long, Emily #152

Co-Presenters: Anna Claire Harris, Macey Lindsey, Jayna Harris, Faith Ochoa

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Treatment for Children with Hypertonicity using Hippotherapy: A Scoping Review

Faculty Mentor: Rachel Wilkins

Maguire, Carli #89

Category: Basic or Experimental Research

Title: Assessment of Total Cellular Protein Following Fatty Acid Treatment Using the BCA Assay

Faculty Mentor: Tameka Bailey

Mallapuram, Supraja #81

Category: Basic or Experimental Research

Title: Investigating Sertraline-Mediated Modulation of Mitochondrial Succinate Dehydrogenase to Sensitize Glioblastoma Cells to Temozolomide

Faculty Mentor: Natarajan Ganesan

ManiMegla, Fnu #32

Category: Basic or Experimental Research

Title: Impact of Green Supply Chain Management on Business Growth: A systematic Literature Review

Faculty Mentor: Huiling Liu

Mcclain, Emily #145

Co-Presenters: Emmi Walton, Ava Mosier, Caroline Crowe

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Structured Brainstorming for Effective Writing

Faculty Mentor: Ryan Kelly

Meadows, Aaron #48

Category: Basic or Experimental Research

Title: CARBON-ION RADIOTHERAPY: THE FUTURE OF CANCER TREATMENT?

Faculty Mentor: Jody Nutt

Memon, Shahjahan Jabbar #76

Category: Basic or Experimental Research

Title: How Star Rating Distribution Influences Consumer Shopping in E-Commerce

Faculty Mentor: Farhad Moeeni

Mim, Shamsia Jannat #36

Category: Basic or Experimental Research

Title: Characterization of Inflammatory Mediators and Pituitary Adenylate Cyclase-Activating Polypeptide (PACAP)-Induced Mouse Models of Migraine

Faculty Mentor: Jennifer Yanhua Xie

Mondragon, Malena #164

Category: Quality Assessment or Quality Improvement

Title: Assessing Water Quality and Trace Gas Flux in Agricultural Irrigation Reservoirs

Faculty Mentor: John Nowlin

Morris, Sam #103

Co-Presenters: Caden Grimmatt, Ethan Altenbaumer

Category: Creative Work

Title: Cast in Steel: Horseman's Axe

Faculty Mentor: Tim Arquitt

Morris, Kolton #85

Category: Basic or Experimental Research

Title: Reducing Friction and Power Consumption in Slider Bed Conveyor Systems

Faculty Mentor: Robert Fleming

Mullins, Johnathon #117

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Veteran Representation and Veteran Policy in U.S. State Legislatures

Faculty Mentor: Hans Hacker

Mullins, Johnathon #30

Category: Basic or Experimental Research

Title: Modeling Legislative Attrition Using a Lotka–Volterra Framework

Faculty Mentor: Hans Hacker

Murray, Austin #133

Category: Observational, Descriptive, or Cross-Sectional Research

Title: An Exploratory Analysis of Household Liquidity

Faculty Mentor: Matthew Hill

Musselwhite, Parker #176

Co-Presenters: Jebin Samuel, An Ly

Category: Quality Assessment or Quality Improvement

Title: Evidenced-Based Education on the Benefits of Video Laryngoscopy (VL) in Routine Intubations for Anesthesia Providers

Faculty Mentor: Virginia Baltz

Oishi, MayidaKhan #4

Category: Basic or Experimental Research

Title: Mitochondrial Genome

Faculty Mentor: Andrew Sweet

Orr, Andrew #97

Co-Presenters: Logan Smith, Grace Wiley

Category: Creative Work

Title: The Student Steel Bridge Competition

Faculty Mentor: Jason Stewart

Patterson, Tatum #130

Category: Observational, Descriptive, or Cross-Sectional Research

Title: ACCURATE INDICATIONS OF PATIENT PROGNOSIS WITH RISK OF CARDIOVASCULAR EVENTS WITH MRI

Faculty Mentor: Kendall Youngman

Paudel, Agrani #65

Category: Basic or Experimental Research

Title: Characterization of Novel Compounds for Breast Cancer Treatment

Faculty Mentor: Mohammad Abrar Alam

Pearson, Fletcher #72

Category: Basic or Experimental Research

Title: Lifecycle Analysis of Rice Husk Ash (RHA) as a Green Alternative for Stabilizing Weak Foundation Soils

Faculty Mentor: Zahid Hossain

Phillips, Breanne #166

Co-Presenters: Brayton Ragsdale, Griffin McCowan

Category: Quality Assessment or Quality Improvement

Title: The Use of Intraoperative Lidocaine to Decrease the Incidence of Postoperative Pain in Surgical Patients: A Pre- and Post-Education Analysis

Faculty Mentor: Lee Hammon

Pirani, Cara #66

Category: Basic or Experimental Research

Title: Functional Genomics of Streptococcus mutans: Identifying Critical Genes for Oral Biofilm Formation

Faculty Mentor: Mohammad Abrar Alam

Pitts, Rayleigh #123

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Diffuse Midline Glioma in a Pediatric Patient: A Case Study Within Clinical Trial ACNS1821

Faculty Mentor: Jody Nutt

Poff, Hallie #114

Co-Presenters: Virginia Smith, Alex Theisen

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Impact of Home-Based Sensory Interventions for Children with Autism: A Scoping Review

Faculty Mentor: Christine Wright

Powell, Macey #62

Co-Presenter: Abby McIver

Category: Basic or Experimental Research

Title: Effects of Ranavirus on the Immune System of by Leucocyte Compassion

Faculty Mentor: Lorin NeumanLee

Preston, Carson #19

Category: Basic or Experimental Research

Title: Blueprints of Literacy: The Evolution of Arkansas's Sixth Grade English Language Arts Standards Across Four Cycles

Faculty Mentor: Dixie Keyes

Prince, Janarie #107

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Distrust in Law Enforcement Among Black College Students at PWIs

Faculty Mentor: Angelo Brown

Pye, Julia #57

Co-Presenter: Taylor Fiedor

Category: Basic or Experimental Research

Title: The Spatial Ecology of Coccidia in Arkansas Freshwater Snails

Faculty Mentor: Kyle Gustafson

Rahman, Naim-Ur #73

Co-Presenter: Arpan Das

Category: Basic or Experimental Research

Title: Utilization of steel slag as cementitious material in concrete: improving early strength and sustainability

Faculty Mentor: Zahid Hossain

Rajbhandari, Prasanna #86

Category: Basic or Experimental Research

Title: The Convergence of Big Data and Artificial Intelligence (AI): Graph and Language Based Methods for Business Intelligence (BI)

Faculty Mentor: Richard Segall

Ranjitkar, Shiwani #118

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Mental Health in Healthcare Workers: Is it just a myth or a fact, considering the abundant access to health care.

Faculty Mentor: James McGinnis

Rathod, Jerusha #119

Category: Observational, Descriptive, or Cross-Sectional Research

Title: An Analysis of Seat Densification: A Revenue Optimization Strategy in Commercial Aviation

Faculty Mentor: James McGinnis

Redburn, Hunter #49

Category: Basic or Experimental Research

Title: THE EFFECTS OF FASTING DURING RADIATION THERAPY TREATMENT

Faculty Mentor: Jody Nutt

Regn, Orithea #27

Category: Basic or Experimental Research

Title: MA(1) or White Noise?

Faculty Mentor: Ferebee Tunno

Rikard, Zach #11

Co-Presenter: Mahesh Bamunusingha

Category: Basic or Experimental Research

Title: Leveraging Soil Bacteria to Protect Soybean from Fungal Pathogens

Faculty Mentor: Asela Wijeratne

Riley, Symantha #146

Co-Presenters: Leah H Harris, Paige Reynolds

Category: Observational, Descriptive, or Cross-Sectional Research

Title: The Author's Big Why

Faculty Mentor: Ryan Kelly

Roach, Kelsey #102

Co-Presenters: Jayva Tolbert, Olivia Archibald

Category: Creative Work

Title: Character Compare

Faculty Mentor: Ryan Kelly

Sadique, Asif #74

Category: Basic or Experimental Research

Title: Utilization of Rice Husk Ash for Sustainable Stabilization of Expansive Subgrade Soils

Faculty Mentor: Zahid Hossain

Sadravi, Shekoofeh #98

Co-Presenter: June Lee

Category: Creative Work

Title: Turning Plant Cells into Protein Factories

Faculty Mentor: Jianfeng Xu

Sagarnaga Rivera, Lídize #158

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Skin pattern as a potential monitoring tool for frog populations

Faculty Mentor: Virginie Rolland

Sanchez-Perez, Perla #160

Co-Presenters: Maria Rivera, Mary Rivas

Category: Quality Assessment or Quality Improvement

Title: Revolutionizing Nurse Anesthesia Education with Immersive Virtual Reality Simulation Education

Faculty Mentor: Cassandra Massey

Santiago Ramos, Claudia #95

Co-Presenters: Sarah Bullen, Seth Prunty, Fletcher Pearson

Category: Creative Work

Title: American Society of Civil Engineers Sustainable Solutions

Faculty Mentor: Ashraf Elsayed

Sayers, Christopher #96

Co-Presenters: Gabby Taunton, Tyler Baugus

Category: Creative Work

Title: Piano Aid

Faculty Mentor: Ehsan Naderi

Sazzad, Quazi Shadman #75

Category: Basic or Experimental Research

Title: Comparative Analysis of Machine Learning Techniques for Pavement Performance Forecasting

Faculty Mentor: Zahid Hossain

Sheals, Holley #83

Co-Presenter: Kyle Foster

Category: Basic or Experimental Research

Title: A Preliminary Evaluation of the Relationship Between Winter Hair Coat Shedding Ability on Subsequent Calf Growth Performance of Crossbred Beef Cows

Faculty Mentor: Randy Burnett

Shobowale, Karimot #163

Category: Quality Assessment or Quality Improvement

Title: Understanding the relationship between Morphometric Indices of the Eleven Point River and Sediment and Nutrient Transport

Faculty Mentor: Jennifer Bouldin

Shrivastava, Amit Kumar #26

Category: Basic or Experimental Research

Title: Antioxidant and Anti-inflammatory Activity of Angelica gigas Hairy Root Extracts

Faculty Mentor: Fabricio Medina-Bolivar

Sims, Shay #21

Co-Presenters: Pierce Duncan, Malachi Abon, Jacob Smith

Category: Basic or Experimental Research

Title: Amyloid beta 42 neurotoxicity in Drosophila retinal development

Faculty Mentor: Edward Schmid

Sloan, Olivia #93

Co-Presenter: Skylar Orr

Category: Basic or Experimental Research

Title: Cancer Cross-Talk: How Heart Cells Rewire Neurons Through Novel Metabolic Signals

Faculty Mentor: Viswanathan Rajagopalan

Speer, Ella #131

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Student Perspectives on the Selection and Suitability of Emotional Support Animals

Faculty Mentor: Lauren Belt

Spence, Ryleigh #50

Category: Basic or Experimental Research

Title: How is Obesity Affecting Medical Imaging?

Faculty Mentor: Jody Nutt

Springer, Zoie #12

Co-Presenters: Maggie Swan, Abby Lockwood

Category: Basic or Experimental Research

Title: Physical Therapy Considerations for the Female Athlete Triad

Faculty Mentor: Brendon Aitken

Subedi, Arati #100

Category: Creative Work

Title: Effect of a Bio-based Forestry Byproduct on the Workability of Aged Binder

Faculty Mentor: Zahid Hossain

Sulatskova, Daria #69

Category: Basic or Experimental Research

Title: Identifying Candidate Genes Responsible for Polyethylene Oxidation in Plastic-Feeding Waxworms

Faculty Mentor: Maureen Dolan

Taegtmeier, Levia #153

Co-Presenters: Alexander Diaz, Matthew Land, Jarron Brantley

Category: Observational, Descriptive, or Cross-Sectional Research

Title: What the Research Says About Hippotherapy as Treatment for Parkinson's Disease: A Scoping Review

Faculty Mentor: Rachel Wilkins

Teel, Caroline #5

Category: Basic or Experimental Research

Title: The Effects of Cycling Resistance on Blood Lactate, Peak Power, and Rate of Fatigue

Faculty Mentor: Amanda Wheeler

Thadisina, Sowmya #157

Co-Presenters: Maheshwari Saddollu

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Impact of Cover Crop Species and Planting Date on Earthworm Abundance and Biomass

Faculty Mentor: Steven Green

Thapa, Garima #116

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Evaluating the Effect of Cover Crops on Farm Income and Greenhouse Gas Emissions in Arkansas

Faculty Mentor: GwanSeon Kim

Thompson, Darrah #106

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Sanitizing Escape Lines: Memory Transmission Among WWII Airmen

Faculty Mentor: Andrea Davis

Tran, Mien #42

Co-Presenter: Samita Magar

Category: Basic or Experimental Research

Title: INVESTIGATING VARIOUS METHODS OF ORDER PICKING ON EFFICIENCY AND QUALITY OF DISTRIBUTION CENTER PICKING OPERATIONS

Faculty Mentor: John Mello

Vargas Perez, Cesar #70

Category: Basic or Experimental Research

Title: From Oxidation to Biodegradation: Using chemistry to assist biological breakdown of plastic

Faculty Mentor: Maureen Dolan

Vaughn, Victoria #128

Co-Presenters: Amaris Jenkins, Shye Fischer

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Sensations of Tactile Art

Faculty Mentor: Karen Yanowitz

Vick, Maya #39

Category: Basic or Experimental Research

Title: Learner - AI Collaboration in Second Language Learning

Faculty Mentor: John Hollander

Vo, Ngan #43

Co-Presenters: Nikita Lama, Khang Cao

Category: Basic or Experimental Research

Title: Evaluating the Effectiveness of AI in Minimizing the Bullwhip Effect in Supply Chains

Faculty Mentor: John Mello

Wagoner, Rance #80

Category: Basic or Experimental Research

Title: Cotton Yield Response to Varying Nitrogen Rates in Northeast Arkansas

Faculty Mentor: Nelson (Ray) Benson

Wanja, Ruth #34

Category: Basic or Experimental Research

Title: Modeling Dissolved Pb Responses to Water Chemistry and Seasonal Processes Using GAMMs in the Cache River Watershed

Faculty Mentor: Jennifer Bouldin

Watson, Holten #156

Co-Presenters: Dayton Watson, Tyler Conner

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Impact of Tai Chi on Veterans' Mental Health Issues: A Case Series

Faculty Mentor: Scott Bruce

Wentz, Colyn #124

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Research and Development of Mobile Linear Accelerators

Faculty Mentor: Jody Nutt

Whelchel, Tristan #104

Co-Presenters: Seth Copeland, Eli Edmonds, Stone Lee

Category: Decline to participate in judging

Title: Progressive loading rehabilitation in Tendinopathy

Faculty Mentor: Atiken Brendon

Williams, Ceazia #147

Co-Presenter: Barnello Natalie

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Antonym Bingo

Faculty Mentor: Ryan Kelly

Wilson, Jessica #148

Co-Presenters: Ja'Neice Jones, Ronnie Tindel

Category: Observational, Descriptive, or Cross-Sectional Research

Title: Comprehension 5 W's

Faculty Mentor: Ryan Kelly

Wotengo, Nenet #125

Category: Observational, Descriptive, or Cross-Sectional Research

Title: When Radiation Meets Metabolism

Faculty Mentor: Jody Nutt

Yaqub, Danish #77

Category: Basic or Experimental Research

Title: Reinforcement Learning Approaches for Intelligent Budget Management: A Comparison of Traditional Budget model with Q-Learning, and Deep Q-Network Models

Faculty Mentor: Farhad Moeeni

Yarbrough, Gareth #29

Category: Basic or Experimental Research

Title: Effect of Iron on the Deliquescence and Efflorescence Relative Humidities of Representative Salts of Atmospheric Importance

Faculty Mentor: Hashim Ali

York, Rachel #169

Category: Quality Assessment or Quality Improvement

Title: Evaluating the Effects of Two-Stage Ditch Design on Water Quality in a Mississippi Delta Watershed

Faculty Mentor: Sarah Webb