



April 19-21
2021

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CREATE @ STATE

A Symposium of Research, Scholarship & Creativity

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A Symposium of Research, Scholarship & Creativity



Welcome to the 11th annual celebration of Create@State: A Symposium of Research, Scholarship and Creativity, showcasing the faculty-mentored projects of our highest-achieving students from across all of the university's colleges and disciplines. For the second year in row, all of our student presentations will be virtual as our university continues to adapt to the ongoing COVID-19 pandemic. During these extraordinary times, the need to engage in research, scholarship and creativity is more vital than ever. Our society is challenged with finding solutions to productivity that allow for social distancing. This year's Create@State will be an exemplary demonstration of our students flourishing under this challenge.

This year's event will feature 190 presentations and involve 241 students, which represents one of our most active years of the symposium. The past year has caused our world to change at a rapid pace. By adapting to our current situation, our students are well-suited to become some of the leading architects of our ever-changing world. The research, scholarship and creativity that they will be presenting will help form the basis of the skills they will require to shape our new world in terms of the future of health care and education, biomedical and biotechnology sciences and other technologies, how we feed our population, how we do business, and how our creative memories and imagination capture and record our new world.

This symposium represents the annual culminating event of A-State's Create@State program that enhances opportunities throughout the year for student research and creativity and enriches co-curricular learning experiences in all disciplines. The works you will see this week are a testament to A-State's strong mentorship and inclusivity, provided to our students by outstanding faculty research and creativity mentors. I hope you will participate in as many of the events over the three days as possible and share in the celebration of our students' accomplishments!

Best regards,



Thomas Risch, Ph.D.
Vice Provost for Research and Technology Transfer



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CREATE @ ST/ATE

A Symposium of Research, Scholarship & Creativity

Create@State is reaching the public and our communities this year in this virtual symposium by streaming the students' presentation videos right into the homes of Northeast Arkansas through ASU-TV (Suddenlink Channel 18 in Jonesboro), simultaneously streaming it on the Create@State YouTube channel, and making each of the presentations available for viewing on the Create@State YouTube channel after the event.

AState.edu/WatchCreateAtState

**April 19
2021**

Schedule

College of Nursing and Health Professions

Start Time: 12:30 p.m.

Welcome from Dr. Susan Hanrahan, dean of the College of Nursing and Health Professions

Session A: Undergraduate Oral Presentations

Session B: Undergraduate Poster Presentations

Session C: Graduate Oral Presentations

Session D: Graduate Poster Presentations

**April 20
2021**

College of Sciences and Mathematics

Start Time: 12:30 p.m.

Welcome from Dr. Lynn Boyd, dean of the College of Sciences and Mathematics

Session A: Undergraduate Oral Presentations

Session B: Undergraduate Poster Presentations

Session C: Graduate Oral Presentations

Session D: Graduate Poster Presentations

College of Education and Behavioral Science

Welcome from Dr. Mary Jane Bradley, dean of the College of Education and Behavioral Science

Session A: Undergraduate Oral Presentations

Session B: Undergraduate Poster Presentations

Session C: Graduate Oral Presentations

College of Liberal Arts and Communication

Welcome from Dr. Carl Cates, dean of the College of Liberal Arts and Communication

Session A: Undergraduate Oral Presentations

Session B: Undergraduate Creative Media

Session C: Graduate Oral Presentations

Session D: Graduate Poster Presentations

Each day's sessions will air live on the Create@State YouTube at
[AState.edu/WatchCreateAtState](https://www.austate.edu/WatchCreateAtState)
 and in the Jonesboro area on Suddenlink Channel 18

Welcome from Dr. Mickey Latour, dean of the College of Agriculture

Session B: Graduate Poster Presentations

Welcome from Dr. Abhijit Bhattacharyya, dean of the College of Engineering and Computer Science

Session D: Graduate Poster Presentations

Welcome from Dr. Melody Lo, dean of the Neil Griffin College of Business

Session B: Throw 'em to the Wolves — Business Pitch Competition



Each day's sessions will air live on the Create@State YouTube channel at [AState.edu/WatchCreateAtState](https://www.youtube.com/watch?v=UW0tYD8F6vE)
and in the Jonesboro area on Suddenlink Channel 18



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COLLEGE OF NURSING AND HEALTH PROFESSIONS

Monday, April 19, Start Time: 12:30 p.m.

*Welcome from Dr. Susan Hanrahan, dean of the
College of Nursing and Health Professions*

Session A: Undergraduate Oral Presentations

Kristen Anderson, The Effect of Kangaroo Care on the Length of Time Premature Infants Spend in the NICU;
Kathryn Flannigan, mentor

Cassie Clement, Nursing Student and Faculty Perceptions of ICU Patient Sleep;
Dr. Krista Snellgrove, mentor

Bethany Harbin, Healthcare Faculty Attitudes Toward Recyclines in the Clinical Setting;
Dr. Krista Snellgrove, mentor

Session B: Undergraduate Poster Presentations

Abby Antici, Spelling and Song: Utilizing Music as a Mnemonic Device to Increase Retention of Spelling Rules Within the Barton Reading and Spelling System;
Dr. Christina Akbari, mentor

Laura Bass, The Benefits of Using Intraoperative Radiation Therapy (IORT) to Treat Breast Cancer Compared to Whole Breast Irradiation;
Jody Nutt, mentor

Marina Byrns, Bailey Morgan and Chelsea Carver (co-presenters), Reducing Sodium in "To-Go" Meals;
Dr. Joseph Richmond, mentor

Meredith Greathouse, Pediatric Imaging;
Jody Nutt, mentor

Ariel Jones, Why Using M-Mode Over Pulse Wave is Recommended in Early OB Ultrasounds;
Jody Nutt, mentor

Kyle Jurczyk and Kristen Sink (co-presenters), Wowffles: Vegan Waffles That Increase Nutrient Intake, Cognition, and Immune System Function;
Eric West, mentor

Kathryn Lambert, The Importance of Effective Patient Education in Upper GI Series Fluoroscopy Exams;
Jody Nutt, mentor

Emily Marshall, In Vitro Bactericidal Effects of 415 NM Blue Light on Pseudomonas Aeruginosa;
Dr. Claude Rector, mentor

Tiffany Nguyen, The Lead Shielding Controversy on Medical Imaging;
Jody Nutt, mentor

Sereytesy Tes and Tran Huyen (co-presenters), Shocking Salisbury Steak: A Plant-based Salisbury Steak for Iron Deficiency Anemia Adults From 18-65 Years Old;

Eric West, mentor

Session C: Graduate Oral Presentations

Patricia Acklin, Evaluation of Written Asthma Action Plans in Primary Care Asthma Care Management;

Dr. Christopher Jordan, mentor

Samantha Anderson, A Comparative Analysis of Hepatitis C Screening. Are We Missing the Mark in the Clinic Setting?;

Dr. Mark Foster, mentor

Kayley Baltz, Examining Provider Implementation of Non-Pharmacological Interventions With Hypertension;

Dr. Mark Foster, mentor

Julie Bays, Current Recommendations for HIV Screening in the Non-Pregnant Adult and Adolescent Population: A US Preventative Task Force Guideline Applied to the Clinical Setting;

Randi Davis, mentor

Samuel Bentley, Referrals for Cardiac Calcium Screening;

Dr. Mark Foster, mentor

Johnna Boggs, Colorectal Cancer: Screening Recommendations for Women;

Dr. Mark Foster, mentor

Sherry Brandon, Chlamydia and Gonorrhea Screening Recommendations for Women;

Dr. Mark Foster, mentor

Chelsea Brincks, Evaluation of a Rural Clinic's Compliance with Bone Density Screening in Women Aged 65 and Greater;

Randi Davis, mentor

Nathaniel Byrnes, A Comparative Analysis of Depression Screening Rates in Patients 13-25 Years of Age Within an Urban Health Population;

Dr. Christopher Jordan, mentor

Teresa Clark, Improving Medication Reconciliation Quality During Long-Term Acute Care Transitions of Care;

Dr. Christopher Jordan, mentor

Kylee Claypool, Diabetic Foot Exams;

Dr. Christopher Jordan, mentor

Brandy Cooper, Screening for Preeclampsia at Prenatal Visits;

Dr. Christopher Jordan, mentor

Randi Davis, Implementation of an Evidence-Based COPD Assessment Tool in Primary Care;

Dr. Jessica Camp, mentor



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Kaylynn Fain, Comparing Diabetic Foot Exam Guidelines to Prevent Diabetic Foot Ulcers;
Dr. Christopher Jordan, mentor

Callie Feather, Comparing Trends of Tobacco Cessation Counseling Implementation;
Dr. Nancy Baltz, mentor

Kayla Fisher, An Analysis of Depression Screening Rates Among Adult Patients Within a Rural Healthcare Setting Comparative to the National Average;
Dr. Christopher Jordan, mentor

Amber Freeman, Tracking Obesity Intervention Education in Primary Care;
Randi Davis, mentor

Christine Gatewood, Routine Screening of Hepatitis C in Adults;
Dr. Christopher Jordan, mentor

Mary Gilliland, The Local Impact of Implementing Multimodal Anesthesia for the Total Knee Arthroplasty Surgery;
Dr. Christie Black, mentor

Ruth Griffith, Osteoporosis Screening: Utilization Rate of Bone Mass Measurement in Women 65 and Older;
Randi Davis, mentor

Courtney Harris, Evaluation of Adherence to Low Dose Computed Tomography Recommendations for Lung Cancer Screening in a Rural Family Practice Clinic;
Randi Davis, mentor

Kimberly Harris, Initiation of Metformin in Prediabetes Patients;
Dr. Christopher Jordan, mentor

James Hawley, Developing an End-of-Life Discussion Protocol;
Dr. Jessica Camp, mentor

Melissa Hayes, A Family Clinic's Lung Cancer Screening Rate Versus National Average of 5.9%;
Dr. Christopher Jordan, mentor

Sarah Highfill, Guidelines for Cervical Cancer Screening in Women Age 21-65;
Dr. Christopher Jordan, mentor

Kaylie Holland, The Prevalence of Polypharmacy in the Adult Population;
Tanja Mead, mentor

Merilu Keenum, Screening for Hypertension in a Rural Clinic in Northeast Arkansas;
Dr. Christopher Jordan, mentor

Garrett Krisell, A Local Clinic's Compliance With New Hepatitis C Screening Versus National Average;
Dr. Nancy Baltz, mentor



Cameron Leach, A Local Clinic's Statin Use Rates in Patients With Cvd Risk Factors Versus the National Average;

Dr. Nancy Baltz, mentor

Kaitlyn Mason, Rate of Herpes Zoster Vaccination in a Clinic in Arkansas Compared to the National Rate;

Dr. Christopher Jordan, mentor

Sheila McCarley, Student Registered Nurse Anesthetist Perspectives on the Impact of a Clinical Mentoring Program;

Dr. Cassandra Massey, mentor

Carrice McDaniel, An Evidence-Based Approach to Developing Occupational Therapy Interventions Aimed at Improving Mental Health Outcomes Among the Limb-Different Population;

Dr. Amanda Carpenter, mentor

Corie Mitchell, A Rural Clinic's Breast Cancer Screening Rate Versus the National Average;

Dr. Christopher Jordan, mentor

Crissie Overshine, Analysis of a Local Clinic's Prescribing Practices for Metformin in Type II Diabetics;

Randi Davis, mentor

Tiffany Saric, A Local Rural Clinic's Low-Dose Computed Tomography Screening Rate in 30 Pack-Year Smokers Aged 55-80;

Dr. Mark Foster, mentor

Debra Schulte, Utilization of a Statin Therapy Initiation Clinical Decision Aid in a Rural Health Clinic: Analysis and Implementation;

Dr. Mark Foster, mentor

Tameka Sledge, Analysis of Childhood Obesity Screenings at a Primary Care Clinic in Western Tennessee;

Randi Davis, mentor

Carmen Smith, Improving Emergency Department Quality of Care;

Dr. Todd Hammon, mentor

Tara Stoner, Low-Dose CT Screenings for Lung Cancer;

Tanja Mead, mentor

Lorri Strider, Percentage of Patients With Type 1 Diabetes That Follows American Diabetes Association's Treatment Recommendations;

Dr. Christopher Jordan, mentor

Makecha Taylor, Evaluation of Lifestyle Changes on Lowering Blood Glucose Levels Prior to the Initiation of Metformin Therapy;

Randi Davis, mentor

Elizabeth Thomason, Aiming for Accuracy in Primary Care Penicillin Allergy Identification;

Dr. Sarah Davidson, mentor



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Alexis Tibbs, A Rural Clinic's Cervical Cancer Screening Rate Versus the National Average;
Dr. Nancy Baltz, mentor

Tracy Tucker, Screening for Alpha 1 Antitrypsin Deficiency in Adult COPD Patients;
Dr. Mark Foster, mentor

Shay Tyler, Evaluation of a Rural Family Practice Clinic's Compliance With Hepatitis C Screening Recommendations;
Randi Davis, mentor

Salima Valiani, Breast Cancer Screening Rate in a Local Clinic Versus the National Average Screening Rate;
Dr. Nancy Baltz, mentor

Lauren Vaughn, A Local Clinic's Clinical Breast Exam Screening Rate Verses Arkansas' BreastCare's Average;
Tanja Mead, mentor

Samantha Wideman, Prevalence of Genetic Counseling and Testing in Women at High Risk for BRCA-Related Cancers;
Dr. Nancy Baltz, mentor

Session D: Graduate Poster Presentations

Katherine Axsom, Drake Parker and Katherine Thomas (co-presenters), Evaluating Strength Gains in the Upper Extremity Using Blood Flow Restriction Exercise and Myofascial Release;
Dr. LaToya Green, mentor

Baylee Burke, Reliability of Visuomotor Reaction Time (VRT) on the Reflection Edge Light Board;
Dr. Scott Bruce, mentor

Natalie Duranso and Lorenzo Catapang (co-presenters), Effects of Blood Flow Restriction and Myofascial Release at the Upper Extremity: A Case Study Report;
Dr. LaToya Green, mentor

Kafayat Iyanda, The Effect of Sport Related Concussion on Physical Performance of Collegiate Football Players;
Dr. Scott Bruce, mentor

Anna Lafever, Comparison of Trazer Performance Across 3 Different Levels of Ncaa Division I Football Classifications;
Dr. Scott Bruce, mentor

Laura Lynn, Comparative Baseline Game Statistic Data For Intercollegiate Men's And Women's Basketball;
Dr. Scott Bruce, mentor

Paul Smith and Lucas Williams (co-presenters), Assessing Upper Extremity Strength Improvement by Implementation of Stretching and Blood Flow Restriction Exercise;
Dr. LaToya Green, mentor

COLLEGE OF SCIENCES AND MATHEMATICS

Tuesday, April 20

*Welcome from Dr. Lynn Boyd, dean of the
College of Sciences and Mathematics*

Session A: Undergraduate Oral Presentations

Izzeldin Ahmed, Krystian Roedel and Gaurav Gajurel (co-presenters), Effect of Culture Conditions on Stilbenoid Yield in Hairy Root Cultures of Peanut;
Dr. Fabricio Medina-Bolivar, mentor

Johnna Berryhill, Identifying Major Depression Patient Subgroups Based on Neuropsychiatric Symptoms and Blood Markers;
Dr. Sudeepa Bhattacharyya, mentor

Linh-Chi Ho, Anticancer Effect of Prenylated Stilbenoids From Peanut in Combination With Paclitaxel in Triple Negative Breast Cancer Cells;
Dr. Fabricio Medina-Bolivar, mentor

Michaela Stone, Assessment of an Herbal Compound as a Potential Novel Strategy for Migraine;
Dr. Jennifer Xie, mentor

My Ni Van and Kayleigh Rodriguez (co-presenters), An Amperometric Glucose Sensor Using Recombinant MN Peroxidase and Glucose Oxidase;
Dr. Anahita Izadyar, mentor

Session B: Undergraduate Poster Presentations

Curren Bounds, Sankalpa Chakraborty and Bryce Dickerson (co-presenters), Discovery of Thyroid-Hormone Associated Non-Coding Ribonucleic Acids in Fibrotic Heart;
Dr. Viswanathan Rajagopalan, mentor

Shawn King, The Morphology and Identification of White Blood Cells in Chelonian Species in Northeast Arkansas;
Dr. Lori Neuman Lee, mentor

Hugh Pascoe and Sandaruwan Ratnayake (co-presenters), Phylogenetic Analysis of Genes Involved in Demethylation in Plants;
Dr. Asela Wijeratne, mentor

Auburn Ramsey, The Cytoskeletal Protein CAP1 Fulfills Context-Dependent Functions in the Adhesion and Migration of Colon Cancer Cells;
Dr. Guolei Zhou, mentor



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Olivia Sitzes, Influence of Environment on Frog Selection of Bluebird Nest Boxes;
Drs. Virginie Rolland and Lori Neuman-Lee, mentors

Mary Veach, Relationship Between Body Mass, Follicular Size, and Egg Production in Female Red-Eared Sliders (Trachemys Scripta);
Dr. Lori Neuman-Lee, mentor

Session C: Graduate Oral Presentations

Amelia Atwell, Using Sub-Watersheds to Determine Variations in Water Quality Within the Cache River Drainage Basin in Eastern Arkansas;
Dr. Bill Stroud, mentor

Caitlin Debellis, The Relationship Between North American Birds and Bergmann's Rule in the Context of Climate Change;
Dr. Virginie Rolland, mentor

Gaurav Gajurel, Assessing the Role of Prenylated Stilbenoids on Abiotic Stress in Peanut;
Dr. Fabricio Medina-Bolivar, mentor

Alyssa Hartzheim, Optimization and Implications of Microbiocidal Killing Assays for Two Threatened Species of Tortoise Under Zoo Conditions;
Dr. Lori Neuman-Lee, mentor

Md Rokib Hasan and Sankalpa Chakraborty (co-presenters), Cardioprotective Properties of Hairy Root Extracts and Arachidins From Peanut;
Dr. Fabricio Medina-Bolivar, mentor

Uddhab Karki, Enhanced Bioproduction of Human Erythropoietin in Tobacco Cell for Large Scale Ex Vivo Generation of Red Blood Cells;
Dr. Jianfeng Xu, mentor

Shyaron Poudel, Differential Methylation Between Mock and Infected Soybean Seedling;
Dr. Asela Wijeratne, mentor

Thivanka Ratnayakemudiyanselage, Machine Learning-Based Gene Regulatory Network Model During Soybean-Pythophthora Sojae Interactions;
Dr. Asela Wijeratne, mentor

Krishna Sharma, Tempo Cellulose Substratum With Stem Cell Exosomes to Facilitate Sciatic Nerve Regeneration;
Dr. Jennifer Xie, mentor

Jennifer Terry, Shifts in the Acute Stress Response in Female Red-Eared Sliders (Trachemys Scripta);
Dr. Lori Neuman-Lee, mentor

Session D: Graduate Poster Presentations

Lokesh Akana, Mechanisms Underlying the Phospho-Regulation Of CAP1 by Protein Kinase C (PKC), And Cellular Functions Of The PKC Epsilon Isozyme (PKCε) In HeLa And MCF-7 Cells;

Dr. Guolei Zhou, mentor

Amelia Atwell, Total Nutrients, Sediment, and Agricultural Intensity: A 3-Year Study of the Cache River Watershed, Arkansas;

Dr. Jennifer Bouldin, mentor

Nicholas Craddock, Effect of Pastureland Use on Subwatersheds of the Buffalo National River, Arkansas;

Dr. Jennifer Bouldin, mentor

Rainee Deroin, Water Quality of Subwatersheds Located in the Middle White River in Arkansas;

Dr. Jennifer Bouldin, mentor

Emily Field, Detection of Snake Fungal Disease in Arkansas Prior to 2006 Using Historical Museum Specimens;

Dr. Lori Neuman-Lee, mentor

Bretton Hale, A Systems Approach for the Study of Soybean-Phytophthora Sojae Interaction;

Dr. Asela Wijeratne, mentor

Victoria Lydy, Comparing the Sensitivities Between Native and Long-Term Laboratory-Reared Populations of Ceriodaphnia Dubia;

Dr. Jennifer Bouldin, mentor

Sepideh Mohammadhosseinpour, Prenylated Stilbenoids: Potential Adjuvants for the Treatment of Triple Negative Breast Cancer;

Dr. Fabricio Medina-Bolivar, mentor

Brittany Singleton, Water Quality at Three Sites Along the Bayou Deview River, Arkansas;

Dr. Jennifer Bouldin, mentor





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COLLEGE OF EDUCATION AND BEHAVIORAL SCIENCE

Tuesday, April 20

*Welcome from Dr. Mary Jane Bradley, dean of the
College of Education and Behavioral Science*

Session A: Undergraduate Oral Presentations

Landon Bonner and Emily Burke (co-presenters), What Elements of Caregiving Influence Teen Drug Use?;
Dr. David Saarnio, mentor

Sara Brown, Undergraduate Oral Presentation, Impact of Educational Television;
Dr. David Saarnio, mentor

Emily Burke and Landon Bonner (co-presenters), Adolescent Drug Use and Parental Social-Media Monitoring;
Dr. David Saarnio, mentor

Tralelee Ellington, Teaching Writing Processes in Middle School;
Dr. Dixie Keyes, mentor

Megan Gunnels, The Impact of COVID-19 on College Students' Coping Strategies;
Dr. Jessica Curtis, mentor

Camryn O'Conner, A Survey About Racial Climate in the Classroom;
Dr. David Saarnio, mentor

Mary Reed, Landon Bonner and Emily Burke (co-presenters), Are Dogs With Black Coats Less Preferred Than Other Dogs;
Dr. David Saarnio, mentor

Session B: Undergraduate Poster Presentation

Aleise Nooner, Tinsley Clark and Hannah Tisdale (co-presenters), Using Scientific Principles to Address Barking on Shelter Dogs;
Dr. Kris Biondolillo, mentor

Session C: Graduate Oral Presentation

Lynnsey Bowling, The Effects of a Carbohydrate Mouth Rinse on Soccer-Specific Skills Following a Morning High-Intensity Practice;
Dr. Veronika Pribyslavska, mentor

Veronica Milnes, Psychological Reaction to the Coronavirus;
Dr. David Saarnio, mentor

COLLEGE OF LIBERAL ARTS AND COMMUNICATION

Tuesday, April 20

*Welcome from Dr. Carl Cates, dean of the
College of Liberal Arts and Communication*

Session A: Undergraduate Oral Presentations

Rachel Blocker, Effects of Divorce on Children's Communication;
Dr. Dinah Tetteh, mentor

Alyssa Brockway, Series With a Shameless Message: The Examination of the Defying of Gendered Expectations for Women in "Shameless";
Dr. Sarah Scott, mentor

Richard Cook, Gender and Debate: Applied Education Matters;
Dr. Sarah Scott, mentor

Mackenzie Dodds, Racial Disparity of Soldiers Sentenced to Death in the Korean War for Crimes of Sexual Violence;
Dr. Kellie Buford, mentor

Julian Green, Sonic Pollution and It's Impact on Today's Music;
Dr. Timothy Crist, mentor

Elizabeth Harrison, What if I Want to Fly;
Dr. Sarah Scott, mentor

Raechelle Haywood, An Analysis Of Self-Identity And Social Norms In Moonlight;
Dr. Sarah Scott, mentor





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Kirsten Larrison, Constructing and Editing the Digital Filters for “She Kills Monsters”;
Dr. Claire Abernathy, mentor

Kiri McMann, Creating an Oboe Performance Version of G. F. Handel’s Sonata Op. 1 No. 15 HWV 373;
Dr. Kristin Leitterman, mentor

Jeydon Riggs, Child Sexual Abuse in the U.S. Military During the Cold War;
Dr. Kellie Buford, mentor

Session B: Undergraduate Creative Media Presentations

Jack Ezell, Fog on the Hive Mind: Original Composition for Electronic Media and Process;
Dr. Timothy Crist, mentor

Rachel Flippen, Resist Collaborative Print;
Dr. Shelley Gipson, mentor

Sam Scott, Get Hot: Sampling and Exploration of Experience;
Dr. Timothy Crist, mentor

Session C: Graduate Oral Presentations

Matthew Emery, A Historical Look at Distrust in Contemporary Media;
Dr. Brad Rawlins, mentor

Phoebe Haynes, Historic Landscape: Mildred Jackson Elementary/High School;
Dr. Edward Salo, mentor

William Parker, The Science of Grants Administration;
Dr. Donna Handley, mentor

Session D: Graduate Poster Presentation

Shobhithan Kandasamy, The Nomination of Historic Dyess Colony to the Historic American Landscape Surveys;
Dr. Edward Salo, mentor

COLLEGE OF AGRICULTURE

Wednesday, April 21

*Welcome from Dr. Mickey Latour, dean of the
College of Agriculture*

Session A: Undergraduate Poster Presentations

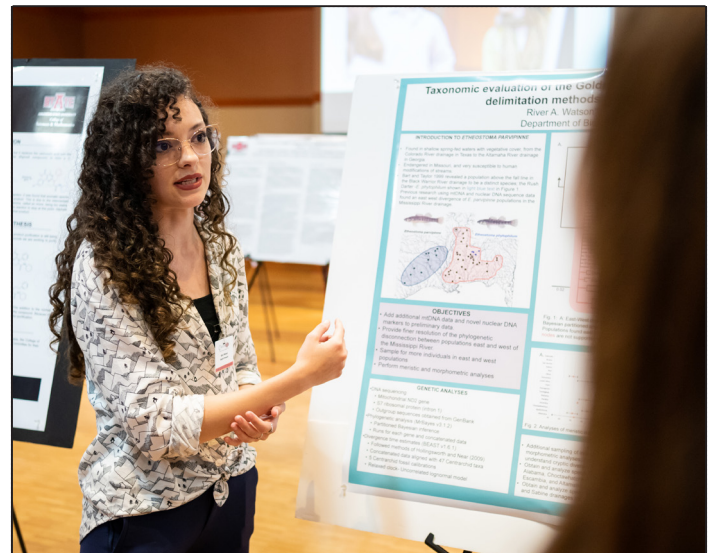
James Cromer, CRISPR/Cas9 Mediated Gene Editing in Soybean Hairy Roots;
Dr. Asela Wijeratne, mentor

Ahad Sanjrani, Face Mask Verification Device;
Dr. Farhad Moeeni, mentor

Session B: Graduate Poster Presentations

Rush Evans, Rice Variable Nitrogen Rate Application;
Dr. Ahmed Hashem, mentor

Daniel Shults, Automated Modeling Technique for Reservoir Identification in the Cache River Critical Groundwater Area, Arkansas;
Dr. John Nowlin, mentor



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COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

Wednesday, April 21

*Welcome from Dr. Abhijit Bhattacharyya, dean of the
College of Engineering and Computer Science*

Session A: Undergraduate Oral Presentations

Bethany Colvin, Kaleb Burdin and Alex McNabb (co-presenters), Online Tabletop (Text-Based) Adventures;
Dr. Christopher Saldivar, mentor

Jacob Elrod, Ridge Diffine and Drake Plunkett (co-presenters), VR Chess;
Dr. Christopher Saldivar, mentor

Jack Germaine, Thomas McCall and Nguyen Binh (co-presenters), Visualization of Different Types of Data
From Twitter;
Dr. Christopher Saldivar, mentor

Hunter Hardin, Jacob Ellis and Alan Kronberger (co-presenters), Development of a Dinosaur Themed God
Simulator VR Game Utilizing Unreal Engine 4;
Dr. Christopher Saldivar, mentor

Session B: Undergraduate Poster Presentations

Shannon Hughes, Computational Analysis Tools for Nanoscale Materials Science;
Dr. Robert Fleming, mentor

Landon Perdue, Design and Fabrication for an Instrumented Soiling Chamber for Testing Glass Coatings;
Dr. Robert Fleming, mentor





Session C: Graduate Oral Presentations

Zahra Alismaeel, Olusegun Akinyemi and Sizhe Zhang (co-presenters), Probot: A Mobile Application For Products Search;

Dr. Christopher Saldivar, mentor

Jagger Harness, Hemil Patel, Austin Smith and Duc Anh Vu (co-presenters), Smart Parking Mobile Application;

Dr. Chris Saldivar, mentor

Jaya Sravani Mandapaka and Victor Omowonuola (co-presenters), Estimating Musical Appreciation Using Neural Network;

Dr. Shubhalaxmi Kher, mentor

Mohammad Najmush Sakib Oyan, Laboratory Determination of Mixing and Compaction Temperatures of Warm Mix Additives Modified Asphalt Binders;

Dr. Zahid Hossain, mentor

Session D: Graduate Poster Presentations

Raiyan Chowdhury, The Role of Powdered Activated Carbon (PAC) in Fly Ash on Alkali-Silica Reactivity and Scaling Resistance of Concrete;

Dr. Zahid Hossain, mentor

Loc Ho, A Study on Website Fingerprinting Vulnerability of Tor Onion Services and General Websites;

Dr. Donghoon Kim, mentor

Mdrafiue Islam, Performing Site Specific Ground Motion Response Analysis (SSGMRA) in Perspective View of Northeast Arkansas (NEA);

Dr. Zahid Hossain, mentor

Sumon Roy, Evaluation of Fresh Concrete Properties of Mixes Modified With Powder Activated Carbon in Class C Fly Ash;

Dr. Zahid Hossain, mentor



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NEIL GRIFFIN COLLEGE OF BUSINESS

Wednesday, April 22

*Welcome from Dr. Melody Lo, dean of the
Neil Griffin College of Business*

Session A: Undergraduate Oral Presentation

Gary Stillwell, The Psychoeconomic Impact of COVID-19 on Arkansas Dentists
Dr. Kim Hester, mentor

Session B: Throw ‘Em To The Wolves – Business Pitch Competition

Grace Acred
Eli Adams
Joshua Adlong
Samuel Allen
Mark Arnold
Thomas Ayers
Jacob Barnett
Laura Bean
Yanet Beltran
Kayann Brown
Ryan Cockrum
Bryce Eckerd
Brad Grisham
Kate Islas
Mohnish Kumar
Shelby Lakey
Peighton Lawrence
Victoria Lawson
Katherine McGinness
Felecia Moore
Wyatt Morris
Kouki Nagata
Benericco Naiveli

Lydia Perschka
Abby Phillips
Anna Raffo
Auburn Ramsey
Zachary Robertson
Erin Robinson
Halle Roleson
Chesney Ross
Colin Schlitt
Hanna Sharpe
Leydi Sherwood
Ryota Shimamoto
Tamika Smith
Joseph Spurlin
Samuel Tennyson
Jordan Tiller
Carmen Waugh
Emily Welch
Isaac White
Jared Wilson
Connor Wilson
Naoko Yoshimura



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