



April 20-22
2020



CREATE @ **STATE**

A Symposium of Research, Scholarship & Creativity

CREATE @ ST ATE

A Symposium of Research, Scholarship & Creativity



Welcome to the tenth annual celebration of Create@State: A Symposium of Research, Scholarship & Creativity, showcasing the faculty-mentored works of our high achieving students from across all of the university's colleges and disciplines. This year we are celebrating against the backdrop of a pandemic, which has precipitated the need for all of our student's presentation to be virtual. During these extraordinary times, the need to engage in research, scholarship & 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 rising to this challenge. Eventually when our current crisis lifts, the very students presenting over the three days of the Create@State symposium, will become some the leading architects of our new world. The research, scholarship & 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 which enhances opportunity 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 student's accomplishments!

Best regards,



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



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The 10th annual Create@State Symposium is finally here, and this year it not only showcases A-State's exciting faculty-mentored student research and creativity, but it also showcases the resilience of our students and faculty during this unprecedented time. The highly anticipated celebration of A-State's student research and creativity signature event is virtual this year due to the continuing challenges of COVID-19, and we see this as a time of opportunity to creatively reach the public with new modes of dissemination for the future of Create@State. We are also grateful for the engagement of our external stakeholders and alumni who are dedicated to judging these presentations each year, this year remotely, and providing valuable feedback to our students. Reaching the public is a mission of student research and creativity, and A-State is committed to the public benefits of university research and hands-on learning of our future workforce.

The university prides itself in being inclusive of all students and their opportunity to engage in faculty-mentored student research and creativity, whether they are on or off-campus, online, traditional, or non-traditional, as there is a spot for all students at the university to become involved in these important co-curricular experiences. This year we had online students already presenting through technology for the face-to-face event, but now all of the student presenters at the university are presenting virtually, adding a new medium and atmosphere for this unique symposium. A-State Student Research & Creativity has also implemented new competitive funding programs available to support student research, including student research and creativity grants, as well as undergraduate research assistantships. We have had a full year of funding success for student engagement and inclusivity, and we look forward to further growing these programs this next academic year.

A-State's Student Research & Creativity has had impeccable representation throughout the 2019-2020 academic year at organized state, regional, and national student research events, including, but not limited to, STEM Posters at the Capitol, the fifth annual LSUS Regional Student Scholars Forum, and various disciplinary signature conferences at the national level. In addition, A-State had 22 undergraduate student researchers accepted to present at the National Conference on Undergraduate Research (NCUR) 2020 in Bozeman, Montana, March 25-28. NCUR 2020 was cancelled due to COVID-19, but the hard work and achievements of our student researchers does not go unnoticed, as they accomplished being accepted to the highly competitive and most distinguished multi-disciplinary undergraduate research conference in the nation. We are extremely proud of our students at A-State and celebrate with them in their many accomplishments.

As the Create@State Symposium is a culmination of collaborative efforts across campus, I want to sincerely thank my Create@State co-chair, Jessica Blackburn of University Advancement, Johnathan Reeves of KASU and the official voice of the Create@State: Making Connections that Count podcast and vodcast, Galen Perkins of ASU-TV, the extremely talented Marketing and Creative Services team, including Mark Reeves, Todd Clark, and Van Provence, and Blackboard administrator, Carolyn Ponce. Also, a very special thank you to the Student Research and Philanthropy Councils, Assessment, and A-State's outstanding faculty mentors, chairs and deans of each of the colleges for working with our offices of Research and Technology Transfer, and Advancement. Welcome, and enjoy this week's virtual showcase of our students and the wonderful works right here at A-State.

Sincerely,

Emily Devereux, Executive Director
Research and Technology Transfer
Student Research and Creativity





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 20
2020**

Schedule

College of Sciences & Mathematics

Start Time: 12:30 p.m.

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

Session A: Undergraduate Oral Presentations

Session B: Undergraduate Poster Presentations

Session C: Graduate Oral Presentations

College of Nursing & Health Professions (Part I)

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

Session A: Undergraduate Oral Presentations

Session B: Graduate Oral Presentations

Session C: Undergraduate Poster Presentations

Session D: Graduate Poster Presentations



**April 21
2020**

College of Nursing & Health Professions (Part II)

Start Time: 12:30 p.m.

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

Session D: Graduate Poster Presentations (Continued from Part I)

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

**April 22
2020**

College of Agriculture

Start Time: 12:30 p.m.

Welcome from Dr. Bud Kennedy, dean of the College of Agriculture

Session A: Undergraduate Poster Presentations

Session B: Graduate Poster Presentations

Neil Griffin College of Business

Welcome from Dr. Jim Washam, dean of the Griffin College of Business

Session A: Business Pitch

Session B: Undergraduate Oral Presentations

Session C: Undergraduate Poster Presentations

College of Education & Behavioral Science

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

Session A: Undergraduate Oral Presentations

Session B: Undergraduate Poster Presentations

Session C: Graduate Oral Presentations

College of Engineering & Computer Science

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

Session A: Undergraduate Oral Presentations

Session B: Undergraduate Poster Presentations

Session C: Graduate Oral Presentations

College of Liberal Arts & Communication

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

Session A: Undergraduate Oral Presentations

Session B: Undergraduate Creative Media

Session C: Undergraduate Poster Presentations

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



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COLLEGE OF SCIENCES & MATHEMATICS

Monday, April 20, Start Time: 12:30 p.m.

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

Session A: Undergraduate Oral Presentations

Clay Heern, Perceptions of Northeast Arkansas secondary mathematics teachers on the ability for students with disabilities to succeed in mathematics;

Dr. Lisa Rice, mentor

Emily Hendrix, Antioxidant activity of stilbenoid-rich extracts from peanut hairy root cultures;

Dr. Fabricio Medina-Bolivar, mentor

Samuel Whitmire, Fractional derivatives, integrals, and the generalized fundamental theorem of calculus;

Dr. Jie Miao, mentor

Session B: Undergraduate Poster Presentations

Izzeldin Ahmed & Krystian Roedel (co-presenters), Optimizing culture conditions to increase root biomass and yield of prenylated stilbenoids in hairy root cultures of peanut;

Dr. Fabricio Medina-Bolivar, mentor

Grant Dawson, Are the turtles stressed too?;

Dr. Lori Neuman-Lee, mentor

JanithNilmika HewaHalpage, Use of hairy roots system to study transcription factor activity in soybean;

Dr. Asela Wijeratne, mentor

Linh-Chi Ho, Evaluating prenylated stilbenoids from peanut as potential therapeutic agents for triple negative breast cancer;

Dr. Fabricio Medina-Bolivar, mentor

Anjala Jiji, Assessing the performance of light weight aligner for plant transcriptomes;

Dr. Asela Wijeratne, mentor

Rebecca Martin, Synthesis of new 2-Aminopyrimidines;

Dr. John Hershberger, mentor

Shawn King, Hemocytology of turtle immune function and stress response in Northeast Arkansas;

Dr. Lori Neuman-Lee, mentor

Jessica Parr, Adsorption of catechol and hydroquinone on the surface of titanium dioxide;

Dr. Hashim Ali, mentor

Noah Smith, Purification and biological-testing of a novel synthesis method of 2-Aminopyrimidines;

Dr. John Hershberger, mentor

Nathan Stephens, Mapping transcription factor interaction in soybean;
Dr. Asela Wijeratne, mentor

Therman Welch, Thermally conductive nanoparticles-polymer composites;
Dr. Anahita Izadyar, mentor

Ayesha Siddiqua, Cytotoxic effects of cancer compounds on HEK cells;
Dr. Mohammad Alam, mentor

Session C: Graduate Oral Presentations

Rokib Hasan, Arachidin-3, A natural product derived from peanut hairy roots, inhibits LPS-induced inflammation by suppressing the NF- κ B signaling pathway;
Dr. Fabricio Medina-Bolivar, mentor

Uddhab Karki, Cell wall engineering of Tobacco By-2 cell and characterizing its morphology and bioproduction properties;
Dr. Jianfeng Xu, mentor

Sepideh Mohammadhosseinpour, Arachidin-1 and Arachidin-3 as potential therapeutic agents for triple negative breast cancer;
Dr. Fabricio Medina-Bolivar, mentor

Patrick Roberto, Bioproduction of stilbenoids in hairy roots of peanut and characterization of their antioxidant activity in Hela cells;
Dr. Fabricio Medina-Bolivar, mentor

Session D: Graduate Poster Presentations

Mohd Kotaiba Abugazleh, Adsorption of Catechol and Hydroquinone on the surface of TiO₂;
Dr. Hashim Ali, mentor

Nicholas Creaddock, Effect of pasture land use on subwatersheds of the Buffalo National River, Ark.;
Dr. Jennifer Bouldin, mentor

Gaurav Gajurel, Biotechnological tools to study the role of prenylated stilbenoids against abiotic stress in peanut;
Dr. Fabricio Medina-Bolivar, mentor

Richard Lin, Sankalpa Chakraborty, Sabrina Tahseen (co-presenters), Aberrant cardiac long non coding RNA profile following altered thyroid hormone levels;
Dr. Viswanathan Rajagopalan, mentor

Shyaron Poudel, Reduced representation bisulfite sequencing to detect condition specific DNA methylation in soybean;
Dr. Asela Wijeratne, mentor

Jennifer Terry, Endocrine and immune patterns in freshwater turtles at Bearitage Farms, Ark., during the active season;
Dr. Lori Neuman-Lee, mentor



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COLLEGE OF NURSING & HEALTH PROFESSIONS (PART I)

Monday, April 20

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

Session A: Undergraduate Oral Presentations

Joseph Austin, Teachers' perception on screen time in fifth and sixth grade classrooms;
Dr. Susan Snellgrove, mentor

Session B: Graduate Oral Presentations

Toney Banks, A policy analysis of the 2017 ASA NPO (fasting) guidelines among GI perioperative;
Dr. Christopher Jordan, mentor

Toni Brice, Novice versus expert certified registered nurse anesthetists self-perceived competency levels in the peri-operative setting;
Dr. Christopher Jordan, mentor

Amber Lea Clements Fore, An assessment of knowledge, attitudes and practices of nicotine use among youth;
Dr. Mark Foster, mentor

Kirsten Combs, Speech-language pathologists' knowledge and implementation of thyroid hormone diseases and allergies on voice;
Dr. Amy Shollenbarger, mentor

Zelda Epperson, A Comparative and Cost Benefit Analysis of Vancomycin versus Ancef use in Total Knees Arthroplasties;
Dr. Todd Hammon, mentor

Chris Ivy, Opioid reduction or elimination with the utilization of transversus abdominis plane blocks in gynecological surgeries;
Dr. Sarah Davidson, mentor

Justin McAdoo, Substance use disorder policy for certified registered nurse anesthetists: A policy analysis;
Dr. Christie Black, mentor

Patricia Tharp, How do mentored nurse anesthetist versus non-mentored nurse anesthetist differ by levels of job satisfaction: A policy analysis;
Dr. Christopher Jordan, mentor

Randi Wright, Education's impact on HPV immunization rates in rural Arkansas;
Dr. Stanley Foster, mentor

Session C: Undergraduate Poster Presentations

Ashlyn Blankenship, Micra Transcatheter pacing system;
Donna Caldwell, mentor

Session D: Graduate Poster Presentations

Emily Allen, Breast cancer screening rates;
Dr. Christopher Jordan, mentor

Courtney Andrews, Adherence to Hepatitis C screening guidelines within a family practice clinic setting;
Dr. Christopher Jordan, mentor

Charlena Bagwell, An analysis of gestational diabetes screening rates within a local family practice setting;
Lauren Hancock, mentor

Lindsay Beacham, An Analysis of Depression screening rates within a local urgent care facility that utilizes the PHQ-2 questionnaire;
Ottysa Hadley, mentor

Chelsea Bennett, A local clinic's rate of type 2 diabetics receiving annual comprehensive foot exams;
Dr. Christopher Jordan, mentor

Natalie Boeckmann, An analysis of childhood obesity screening rates among a suburban pediatric population;
Dr. Christopher Jordan, mentor

Madison Brogdon, Childhood obesity screening;
Dr. Christopher Jordan, mentor

Frances Butler, Are rural primary care clinics adhering to the national guideline of non-pharmacological treatments as first line care of low back pain?;
Dr. Christopher Jordan, mentor

Toni Cecil, Effect of whole-body reactive agility training on volleyball player performance;
Dr. Scott L. Bruce, mentor

Stacia Coleman, Predictive value of injury risk screening for intercollegiate men's basketball players;
Dr. Scott L. Bruce, mentor

Ashlie Davis, A Comparative analysis of women ages 50-74 that have had mammograms ordered within the primary care setting;
Dr. Christopher Jordan, mentor

Kelly Dowden, An Evaluation of metformin prescribing rates of local primary providers comparative to the national rates;
Dr. Christopher Jordan, mentor



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COLLEGE OF NURSING & HEALTH PROFESSIONS (PART II)

Tuesday, April 21

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

Session D: Graduate Poster Presentations (Continued from Part I)

Ashley Early, An Examination of Statin therapy prescribing rates, among diabetic patients, between the ages of 40-75 with known existing cardiovascular risk;

Dr. Christopher Jordan, mentor

Megan Etter, Effect of two 5-week vision training sessions with baseball players;

Dr. Scott L. Bruce, mentor

Bridgette Fender, A local family practice clinic's colorectal cancer screening rates versus the national average of 67.3%;

Dr. Christopher Jordan, mentor

Mary Fisher, Adherence to obesity screening within primary care in accordance to U.S. taskforce guidelines;

Dr. Tammy Hawkins, mentor

Stephanie Gage, Comparing the efficacy of intra-articular leukocyte-rich to leukocyte-poor platelet-rich plasma injections to intra-articular corticosteroid injections in treating knee osteoarthritis;

Dr. Christopher Jordan, mentor

Pamela Garner, The value of ankle brachial index screening in high-risk patients with atherosclerosis;

Dr. Christopher Jordan, mentor

Jason Gill, A Comparative analysis of Influenza vaccination rates among CoPd patients aged 60-70 years old;

Dr. Tanja Mead, mentor

Stephanie Ham, Improving HPV vaccine uptake among adolescents of HPV positive mothers;

Dr. Christopher Jordan, mentor

Nick Haywood, Dual-task screening for identification of persisting concussion effects in intercollegiate football players;

Dr. Scott Bruce, mentor

Allison Hitt, An examination of referral rates for diabetic self-management education;

Dr. Christopher Jordan, mentor

Josh Hodges, An analysis of adherence to prostate cancer screening guidelines within a primary care setting;

Dr. Mark Foster, mentor



David Hoffman, Examining the Rate of obesity screenings in a primary care clinic comparative to the national average;

Dr. Christopher Jordan, mentor

Lauren Huff, A local clinics compliance rate of screening for Type II diabetes;

Ottysha Hadley, mentor

Colt Huggins & Aaron Baldrige (co-presenters), Effects of myofascial release on respiratory muscle function;

Dr. Shawn Drake & Dr. Latoya Green, mentors

Casey Johnson, An examination of Pediatric blood lead level screening rates in the primary care setting;

Dr. Christopher Jordan, mentor

Emily Johnson, Statin therapy use in high-risk patients within the primary care setting;

Dr. Tami Bell, mentor

Tabetha Johnson, Depression screenings in a rural primary care clinic compared to the national average;

Lauren Hancock, mentor

Clara Jones, An analysis of HCV screening rates for patients born 1945-1965;

Dr. Christopher Jordan, mentor

Erica Jordan, An analysis of the influenza vaccine's effect on flu infections rates;

Dr. Nancy Baltz, mentor

Jenny Keller, An examination of the alcohol Screening rate within in family practice setting;

Dr. Christopher Jordan, mentor

Haley Kennedy, A quantitative analysis of first line treatment of UTI's in females;

Dr. Christopher Jordan, mentor

Joshua Lammers, Neuromechanical factors associated with intercollegiate women's athlete injury risk;

Dr. Scott Bruce, mentor

Lauren Lance, Mammogram screening rates for women age 40-49 at a rural clinic in Arkansas;

Dr. Christopher Jordan, mentor

Taylor Long, Aspirin use for primary prevention of cardiovascular disease;

Dr. Tammy Hawkins, mentor

Katelyn Lumpkin, Wait-and-see approach for the initial treatment of acute upper respiratory infections;

Dr. Christopher Jordan, mentor

Holly McGuire, Examining a local clinic's cervical cancer screening rate among female patients;

Dr. Christopher Jordan, mentor

Tia Mitchell, A local clinic's colorectal cancer screening rate comparative to the national average;

Lauren Hancock, mentor



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Wanda Mooney, An analysis of a rural family practice clinic's osteoporosis screening rate;
Dr. Christopher Jordan, mentor

Angela Myers-Obermire, Fall assessment;
Dr. Christopher Jordan, mentor

Morgan Noble, An Obesity screening rate analysis in pediatric patients between the ages of 6-18;
Dr. Stanley Foster, mentor

Hadley Owens, Clinical patient education and colorectal screenings;
Lauren Hancock, mentor

Robin Guest Phillips, How many patients ages 25-35 are being routinely screened for HIV?;
Lauren Hancock, mentor

Jarrett Powell, Are primary care clinics in Arkansas vaccinating patients at high risk for pneumonia appropriately?;
Dr. Christopher Jordan & Dr. Mark Foster, mentors

Hailey Prince, Are healthcare providers, in a local family practice clinic, counseling patients age 18 to 60 with a BMI greater than 30 KG/M² on lifestyle modifications for weight loss compared to the national average?;
Dr. Christopher Jordan, mentor

Karley Sexton, A local clinic's colorectal screening rate in patients aged 50-75;
Dr. Mark Foster, mentor

Thomas Shelton, Tobacco use screening and cessation interventions: A quality improvement project;
Ottysa Hadley, mentor

Kaitlyn Soffray, Tobacco use counseling rates in adult tobacco users within a local Arkansas primary care clinic;
Dr. Christopher Jordan, mentor

Lacey Songer, Peripheral arterial disease screening;
Dr. Christopher Jordan, mentor

Lorenzo Soto, Association of neuromechanical factors in intercollegiate football concussion risk;
Dr. Scott Bruce, mentor

Brittany Spence, Provider adherence to current Hepatitis C guidelines;
Dr. Christopher Jordan, mentor

Phillip Stokes, Analysis of the utilization of advanced directive by primary care providers and discussion of barriers to implementation;
Dr. Nancy Baltz, mentor

Kayla Sutton, Prescription adherence rate of JNC 8 in a rural health clinic in Arkansas, compared to the national rate of 75% of adherence to the JNC 7 guidelines;
Ottysa Hadley, mentor



Cebrina Swanson, A local clinic's compliance rate of type 2 diabetic recommended eye examinations;
Dr. Mark Foster, mentor

Ashley Tallent, Rate of depression screenings for adult primary care patients;
Ottysha Hadley, mentor

Mandi Travis, A local clinic's abdominal aortic aneurysm screening rates;
Dr. Christopher Jordan, mentor

Mistie Vannatter, Behavioral modifications and weight loss in a rural health clinic in White County;
Dr. Christopher Jordan, mentor

Krystyn Vaughan, Comparison of bone density screening rates among Medicare women at a rural Arkansas clinic against the national average;
Dr. Mark Foster, mentor

Tamario Walker, Were patients over 40 years old with elevated blood pressure screened outside the clinic before being diagnosed with hypertension, meeting national recommendations?;
Dr. Christopher Jordan, mentor

Patricia Waller, A Comparative analysis of initial and follow A1c levels in Type 2 Diabetic patients;
Dr. Mark Foster, mentor

Peyton Wiggins, Provider compliance rates in implementing low-dose aspirin therapy in high-risk preeclampsia patients;
Dr. Tammy Hawkins, mentor

Aleshia Williams, Comparison of prescribing practices of providers in a diabetic setting;
Ottysha Hadley, mentor

Britten Williams, Colorectal cancer screening rates in rural Northeast Arkansas versus the national average of 67%;
Dr. Christopher Jordan, mentor

Kari Williamson, How do breast cancer screening rates of female patients over 40-years-old in a local family practice clinic compare to the national average of 72.4% screening for breast cancer in the primary care setting?;
Lauren Hancock, mentor

Adrienne Moore, A local clinic's osteoporosis screening rate in women 65 years and older;
Dr. Christopher Jordan, mentor

Maribel Muniz, An evaluation to determine if Hispanic patients in a rural health clinic with a hemoglobin A1C of 6.5% or higher are diagnosed with diabetes more frequently than non-Hispanics compared to national average;
Dr. Christopher Jordan, mentor

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COLLEGE OF AGRICULTURE

Wednesday, April 22, Start Time: 12:30 p.m.

*Welcome from Dr. Bud Kennedy, dean of the
College of Agriculture*

Session A: Undergraduate Poster Presentations

Jessica Krob, Spatial variability of plant injury and response from *Lygus lineolaris* feeding in Mid-South cotton;
Dr. Tina Gray Teague & Dr. John Nowlin, mentors

Session B: Graduate Poster Presentations

Divya Kandanoor, Assessment of irrigation management for row-irrigated rice using winter cover crops;
Dr. Steven Green, mentor

Daniel Shults, A Spatiotemporal analysis of surface water installation in the Cache and L'anguille river regions
of Northeastern Arkansas;
Dr. John Nowlin, mentor



NEIL GRIFFIN COLLEGE OF BUSINESS

Wednesday, April 22

*Welcome from Dr. Jim Washam, dean of the
Griffin College of Business*

Session A: Business Pitch

Maria Blankenship, Tweenage Dream Box;
Dr. Hilary Schloemer, mentor

Zach Ruple, MonoMyth Studios;
Dr. Hilary Schloemer, mentor

Session B: Undergraduate Oral Presentations

Bryce Jefferson, The sky is falling as rivers rise: Adapting to increased rainfall along the Mississippi river basin;
Dr. Gauri Guha, mentor

Session C: Undergraduate Poster Presentations

Melanie Ricker & Alexis Leonard (co-presenters), Scarlet to Black: A comprehensive student-led approach to financial literacy;
Dr. Philip Tew, mentor

Ahad Sanjrani, Preventing student burnout and fallout: The role of psychological capital and how it affects freshman;
Dr. Hilary Schloemer, mentor





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COLLEGE OF EDUCATION & BEHAVIORAL SCIENCE

Wednesday, April 22

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

Session A: Undergraduate Oral Presentations

Charles Bartholomae & Stephanie Barton (co-presenters), Student mentors: An integrative approach to undergraduate learning;

Dr. Karen Yanowitz, mentor

Sara Brown, Impact of educational television viewed in childhood on college students;

Dr. David Saarnio, mentor

Landon Bonner & Emily Burke (co-presenters), Is peer pressure really the biggest factor in teen drug use?;

Dr. David Saarnio, mentor

Zoe Bryan, Effects of support dogs on eyewitness anxiety during testimony;

Dr. Christopher Peters, mentor

Faith Carr, Isabella Gordon & Darla Thomas (co-presenters), Schemas related to stalking and cyberstalking among college students;

Dr. Karen Yanowitz, mentor

Megan Gunnels, Charles Bartholomae, Amy Faughn & Adam Parker (co-presenters), The formation of stalking and cyberstalking schemas;

Dr. Karen Yanowitz, mentor

Lindsey Hall, M*A*S*H leaves a mark: The long-term impact of participating in informal health science programs;

Dr. Karen Yanowitz, mentor

Haley Lisenby, Megan Ross & Xintian Yin (co-presenters), Identification of school shooter typography: An exploration of the Langman Theory of School Shooters;

Dr. Meagan Medley & Dr. Margaret Hance, mentors

Jarrold Rogers, An analysis of generalized concussion scales and their effectiveness in the pediatric to adolescent population;

Dr. Veronika Pribyslavaska, mentor

Jaylee Tribble & Toby Stipp (co-presenters), Effects of Rosa's Law on jury decision making: Ten years later;

Dr. Christopher Peters, mentor

Session B: Undergraduate Poster Presentations

Stephanie Barton, Perceptions of faculty diversity at A-State;
Dr. David Saarnio, mentor

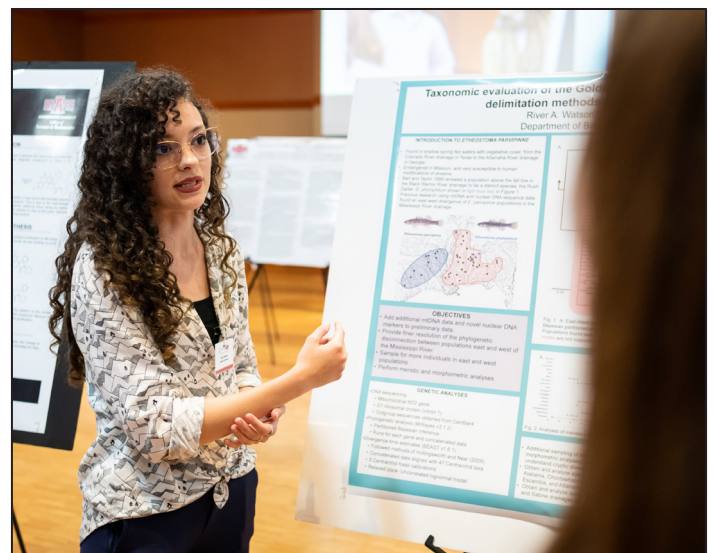
Lucianne Burner, The effects of acute exercise on an ACT prep test and Brunel Mood Scale;
Dr. Blair Dean, mentor

Aleise Nooner, Haley Peoples, Eleanor Pulliam & Hiroki Matsuo (co-presenters), Differences in attitudes toward statistics in traditional versus online courses;
Dr. Amy Pearce, mentor

Session C: Graduate Oral Presentations

Anaëlle Charles, Evaluating the accuracy of two VO 2max prediction methods in Division I cross-country runners;
Dr. Veronika Pribyslavaska, mentor

Daniel Shults, A Spatiotemporal analysis of surface water installation in the Cache and L'anguille river regions of northeastern Arkansas;
Dr. John Nowlin, mentor





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COLLEGE OF ENGINEERING & COMPUTER SCIENCE

Wednesday, April 22

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

Session A: Undergraduate Oral Presentations

Raiyan Chowdhury, Feasibility study of using a super air meter in measuring air void system to evaluate the durability in fresh concrete;

Dr. Zahid Hossain, mentor

Dan Kilula, Water desalination using silver dewetted on CNT mat and microfluidic channels;

Dr. Ilwoo Seok, mentor

Vu Nguyen, Face recognition attendance checking assistant for classroom on android smartphone;

Dr. Jake Qualls, mentor

Session B: Undergraduate Poster Presentations

Ahmed Alsehali, Smart solar blinds;

Dr. Kher Shubhalaxmi, mentor

Andrew Hemund, Modular system design for photovoltaic power generation in Northeast Arkansas;

Dr. Rajesh Sharma, mentor

Session C: Graduate Oral Presentations

Christopher Jones, Tunable nanoparticle surfaces for advanced propulsion;

Dr. Brandon Kemp, mentor

EteeKawna Roy, Development of multiparticle dynamic simulator for electrostatic self-assembly;

Dr. Brandon Kemp, mentor

Session D: Graduate Poster Presentations

Tandra Bagchi, Determination of compatibility analysis between asphalt binders and aggregates by using surface free energy techniques;

Dr. Zahid Hossain, mentor

MdRafie Islam & MdAriful Hasan (co-presenters), Estimation of seismic site coefficients by ground response analysis for Northeast Arkansas;

Dr. Zahid Hossain, mentor

Sumon Roy, Multiscale evaluation of paving asphalt binders under different aging environments;

Dr. Zahid Hossain, mentor

COLLEGE OF LIBERAL ARTS & COMMUNICATION

Wednesday, April 22

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

Session A: Undergraduate Oral Presentations

Heather Cooper, Coercive control inside mentally abusive relationships;
Dr. Dinah Tetteh, mentor

Nathanael Grimes, Traces of a forgotten "city church": Eglise Sainte-Croix-De-La-Cite and a 16th century estate inventory;
Dr. Katherine Baker, mentor

Jordan Moquin, Adopting the Influence of Ethiopian music culture;
Dr. Timothy Crist, mentor

Connor Scroggins, Musical logic: Or, the language of uncertain experience;
Dr. Timothy Crist, mentor

Session B: Undergraduate Creative Media

Kierra Crenshaw, Parental Guidance;
Dr. Katherine Baker, mentor

Sam Meurer, English professors at R1: Doctoral universities in the South 2019-2020;
Dr. Andrea Davis, mentor

Kenneth Willette, Take Me Anywhere;
Melissa Wilkinson, mentor

Session C: Undergraduate Poster Presentations

Samantha Hostetler, Presidential inaugural addresses;
Dr. Andrea Davis, mentor

Joshua Pryor, Jonesboro theatre history museum;
Marc Williams, mentor

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