



**STUDENT RESEARCH AND
CREATIVE ACTIVITY CONFERENCE
PROGRAM**



April 21st, 2023

Booth Library, Doudna, & Lumpkin Hall

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Student Research & Creative Activity Conference

EIU's university's campus wide research conference was inaugurated as Showcase EIU in 2009. Since then it has evolved, and is now organized by the Honors College and the Undergraduate Research Task Force, a campus wide faculty group. We celebrate the achievement of students who take their work beyond the regular classroom to excel and explore through research, practice, and creative work. Their learning creates knowledge and art, and helps others.

Thanks to

- * The faculty who mentor students in research, scholarly, and creative work.
- * President David Glassman, Provost Jay Gatrell, and the Deans for their continuing support of student research.
- * The Undergraduate Research Task Force members.
- * Thanks also to the many EIU staff who have helped with this event, and most of all to YOU the students— Keep up the excellent work!

Program at a Glance

10:00 - 11:00	Booth Library: Awards for Excellence in Student Research and Creative Activity North end of West Reading Room, Booth Library
12:00 - 12:20	Welcome / Opening of Poster Session West Reading Room, Booth Library — Recognition of Phi Beta Kappa essay prize-winners
12:20 -1:45	Poster Session <i>West Reading Room, Booth Library</i> <i>Enjoy food and conversation as you</i> <i>learn from student presenters from all</i> <i>disciplines.</i>
1:00-1:40	Music Performance, Doudna Recital Hall (DFAC 1240)
1:00-5:00	Panels and Oral Presentations, Lumpkin Hall, Rooms 2011, 2020, 2030, 2031, 2041

Detailed Program

10 am - 11 am

North end of West Reading Room, Booth Library: Awards for Excellence in Student Research and Creative Activity

Join Booth Library interim Dean Ryan Hendrickson and his team as they award prizes to the winners of this annual competition.

12:00—12:20

Welcome and opening of the Poster Session

West Reading Room, Booth Library

12:20—1:45 pm

Posters

West Reading Room, Booth Library

(Light snacks will be served)

Posters are listed by Topic—Numbers correspond to those on top right of boards, and run from the south end (low numbers) to the north end (high numbers) of the West Reading Room.

(a * preceding the name indicates a graduate student)

- 1. “The ilmpact of Visual Stimulus in Dynamic Temporal and Tactile Cueing Intervention for a Child with Childhood Apraxia of Speech.”**

Darian Nipper & Alyssa Bitner

Fac. Mentor: Laurel Teller, Comm. Disorders & Sciences

2. “The Effects of Alternating Forms of Direct Instruction on the Labeling Accuracy of Spatial Concepts in a Child with Autism Spectrum Disorder”

* Hannah Roberts & Anna Westerberg

Fac. Mentor: Angela Anthony, Comm. Disorders & Sciences

3. “The Effect of Video Analysis and Self Reflection on Increasing Awareness and Understanding of Social Language in Adolescents with ASD”

* Alli Palmer & Danielle O’Gara

Fac. Mentor: Angela Anthony, Comm. Disorders & Sciences

4. “The Effects of Word Box and Word Sort Interventions in a First-Grade Student with Decoding Deficits”

* Natalia Ogrodny & Gina Urso

Fac. Mentor: Laurel Teller, Comm. Disorders & Sciences

5. “The Knowledge, Attitudes, Beliefs, and Prevalence of English as a Second Language Middle and High School Students Regarding Noise Exposure”

Maria Angel

Fac. Mentor: Heidi Ramrattan, Comm. Disorders & Sciences

6. “Multisyllabic Word Reading in a Child with Dyslexia”

Elizabeth Lowery & Ciara Beyer

Fac. Mentor: Laurel Teller, Comm. Disorders & Sciences

7. “Patterns of Gesture Use During Conversation in Early Elementary Students”

* Ashtyn Wilhelm

Fac. Mentor: Nichole Mulvey, Comm. Disorders & Sciences

8. “Using Shape Coding and Gross Motor Movement Intervention to Improve Morphosyntax and Percent Grammatical Utterances”

Madison Vancil & Cailey Janosek

Fac. Mentor: Laurel Teller, Comm. Disorders & Sciences

9. “Two Planning Treatment Strategies for Increasing Number of Essay Elements in Opinion-Based Written Essays for a Child with ADHD and SLD”

* Aysha Hutson, Ben Rose & Dylan Matsumoto

Fac. Mentor: Laurel Teller, Comm. Disorders & Sciences

10. “Studying the Effects of Multi-Stimuli Fable Presentation on Critical Thinking and Narrative Retell Abilities in a Child with ADHD”

* Emily Jones & Andrew Pilat

Fac. Mentor: Angela Anthony, Comm. Disorders & Sciences

11. “The Effectiveness of Visi-Pitch Intervention for a Child with Irregular Prosodic Features”

* Sydney Drozdowski & Baylee Muench

Fac. Mentor: Laurel Teller, Comm. Disorders & Sciences

12. “Does a Phonological Approach or Semantic Approach Better Support Self-Cueing for Word Retrieval in School Aged Children with Word Finding Deficits?”

Kayla McElroy & Darcy Naugle

Fac. Mentor: Laurel Teller, Comm. Disorders & Sciences

13. “The Effects of Social Stories on Play Skills of a Child with Autism Spectrum Disorder”

* Meredith Milleson & Hannah Kissel

Fac. Mentor: Angela Anthony, Comm. Disorders & Sciences

14. “Does Video-Based Instruction of Social Behavior Mapping Improve Social Behaviors (e.g. Initiating, Topic Maintenance, Topic Shifting in Children with Autism Spectrum Disorder?”

* Leah Landeros & Landrey James

Fac. Mentor: Angela Anthony, Comm. Disorders & Sciences

15. “The Effect of a Digital Social Story on Increasing On-Task Behavior and Decreasing Off-task Behaviors for a Child with ASD”

* Natalie Klancnik & Lauren Edwards

Fac. Mentor: Angela Anthony, Comm. Disorders & Sciences

16. “Comparison of Narrative Retell on Personal Event Narratives and Fictional Narratives with a School-aged Child with Autism Spectrum Disorder (ASD)”

* Macy Piercefield & Melanie Hahndorf

Fac. Mentor: Angela Anthony, Comm. Disorders & Sciences

17. “Effects of a Brief Student-Led Presentation on Increasing Preprofessional Students’ Knowledge of Bilingualism in Children”

Evyenia Pyle & Melanie Hahndorf

Fac. Mentor: Laurel Teller, Comm. Disorders & Sciences

18. “What are the options? An Evaluation of Mandarin Language Assessments”

* Samantha Goodmanson

Fac. Mentor: Laurel Teller, Comm. Disorders & Sciences

19. “Thinking Aloud: A Qualitative Analysis of Verbal Metacognitive Behavior Development in Preschool Children”

McKenna Lanter

Fac. Mentor: Nichole Mulvey, Comm. Disorders & Sciences

20. “Using Think-Alouds to Improve Nonfiction Reading Comprehension”

* Emily McGraw

Fac. Mentor: Angela Anthony, Comm. Disorders & Sciences
(CDS)

- 21. “Opioid Addiction in Adolescents”**
Erykah Walker, Katie Hartke, & Hannah Snow
Fac. Mentor: Holly Farley, Nursing
- 22. “Importance of Student Education Led by Nurses on Asthma”**
Breanna Sheldon, Kai Williams & Grace Edwards
Fac. Mentor: Holly Farley, Nursing
- 23. “Nursing Students and Mental Health”**
Caroline Quarton, Jake McBride & Hannah Bates
Fac. Mentor: Holly Farley, Nursing
- 24. “The Impact of Kangaroo Mother Care on Weight Gain of Premature Infants”**
Kelsee Cliff, Adalee Nichols & Jennea Garard
Fac. Mentor: Holly Farley, Nursing
- 25. “The Effects of Employing Nutrition and Diet Education on Children with ADHD Ages 6-12 on Behavior and Academic Performance”**
Audrey Hancock, Grace Meade & Savannah Bernobich
Fac. Mentor: Holly Farley, Nursing
- 26. “Omega 3 & ADHD Children”**
* Hannah Squire
Fac. Mentor: Melissa Maulding, Nutrition and Dietetics
- 27. “A Systematic Review of the Effects of Smartphone Applications on Type 1 Diabetes Glycemic Control”**
* Evita Chinchilla
Fac. Mentor: Melissa Maulding, Nutrition and Dietetics

28. “The Effects of Infant and Childhood Feeding Interventions on Obesity”

* Zaneke Kerr

Fac. Mentor: Melissa Maulding, Nutrition and Dietetics

29. “Investigating the Influence of Vitamin D on Dysmenorrhea”

• Yolanda Joseph

Fac. Mentor: Melissa Maulding, Public Health and Nutrition

30. “The Impact of Apolipoprotein E Profiles & Dietary Habits on Cardiovascular Disease”

* Rebecca Li

Fac. Mentor: Melissa Maulding, Public Health and Nutrition

31. “Food Insecurity: Effects of Fresh Produce Donations”

* Rebecca Li

Fac. Mentor: Krystal Hodge, Public Health and Nutrition

32. The Relationship Between Family Teasing and Adolescent Body Image:A Literature Review”

* Ruby Amanda Oboro-Offerie

Fac. Mentor: Kathleen O'Rourke, Human Services

33. “Older Adults, Caregivers, and Management of Care: How to Provide Family Support Within an Aging Population”

* Angie Creedon

Fac. Mentor: Kathleen O'Rourke, Human Services

34. “How Ulnar Collateral Ligament Reconstruction Effects a Pitcher’s Performance”

* Matthew Gonzalez

Fac. Mentor: Maranda Schaljo, Kinesiology

35. “Home-based Cardiac Rehabilitation Versus Center-based Cardiac Rehabilitation: Insight into Logistical or Self-Nurturing Motivations”

* Pierce Warren

Fac. Mentor: Andrew Kerins, Kinesiology, Sport, and Recreation

36. “The Impact of COVID-19 on Post-secondary Instruction: A Qualitative Study”

* Madeline Reiher

Fac. Mentor: Dianne Timm, Counselling and Higher Education

37. Fraternal New Member Processes: An Alumni Perspective”

• CJ Gibson

- **Fac. Mentor:** Dianne Timm, Higher Education & Counseling

38. “How Helicopter Parenting Affects Depression, Addiction, and Adjustment to College in College Students”

Shelby Jackson

Fac. Mentor: Jeffery Stowell, Psychology

39. “Test Anxiety Levels in Differing Locations for Online Quizzes”

Taylee Keen

Fac. Mentor: Jeffrey Stowell, Psychology

40. “Egocentrism and Well-Being in College Students”

Clayton Young

Fac. Mentor: Caridad Brito, Psychology

41. “The Effects of Snai2 on Neuronal and Fibroblast Gene Expression”

Anna Sipes

Fac. Mentor: Gary Bulla, Biological Sciences

42. “Development of Less Polar Peroxisome Import Moieties”

Chinenyenwa Okolie

Fac. Mentor: Michael Beck, Chemistry and Biochemistry

43. “Little Choice in the Matter: Tales of Hope and Survival During the Second World War”

Dayden Gardner

Fac. Mentor: Sace Elder, History

44. “Why Invest in Racism?”: Anti-Apartheid Activism at the University of Illinois, 1977-1987”

Shane Smith

Fac. Mentor: Ed Wehrle, History

45. “The Atlantic Charter in Chartered Territory: ‘Africa’s Fight for Self- Determination, 1942-1945”

Mario Smith

Fac. Mentor: Sace Elder, History

46. “Justice under Tyranny: How Enlightenment Language During the French Revolution Led to Emancipation and Rights for Freed and Enslaved People in French Territory”

Madalyn Stead

Fac. Mentor: Sace Elder, History

47. “Languages for Young Learners”

Shayla Taylor, Kate Nemeth, Delice Ntumba, Cayleigh Rath, Katie Beals, Abby Taylor& Sylvia Kendera

Fac. Mentor: Jessica Tindira, Christiane Eydt-Beebe and Olivia Amaya Lemus , World Languages and Cultures

48. “Quality Function Deployment (QFD)”

* Ravi Kiran Raju Kanumuri, Dixit Gupta Garlapati &
Manikanta Sai Krishna Gurijala

Fac. Mentor: Mahmoud Al-Odeh, Technology

49. “TikTok Sentiment Analysis using Python”

* Annie Nguyen

Fac. Mentor: Toqeer Israr, Technology

50. “Effects of a CBD Byproduct on the Water Absorption of Solid and Composite Wood”

* Avani Flanagan

Fac. Mentor: Isaac Slaven, Technology

51. “Cervid Impact on the Production of Industrial Hemp”

Nicholas Cheney

Fac. Mentor: Isaac Slaven Barbara Carlsward, Technology;
Biology

52. “Ethics, Responsibility and Sustainability in the Fashion Industry”

Veronica Gipson

Fac. Mentor: Katherine Shaw, Art & Design

53. “Roadways of America”

Caleb Cunningham

Fac. Mentor: Samantha Tableriou, Art and Design

54. “Portraiture Through Time: Discovering the Self”

Noelle Stoops

Fac. Mentor: Alan Pocaro, Art & Design

55. "Poetry TV"

Annie Goold & Lindsey Warren

Fac. Mentor: Danessa Carter, Counseling & Higher Education

Musical Performance 1-1:40 pm

**1PM—RECITAL HALL, DOUDNA FINE ARTS CENTER 1240
LECTURE RECITAL (20-30 MINS) | IN-PERSON
PRESENTATION**

"Giovanni Gabrieli's 'Jubilate Deo a 8' "

Rhys-Maxwell Barnes & EIU Camerata Choir .

Panel 1:00-1:50

1 - 1:50 | CHATGPT PANEL, LUMPKIN HALL 2131

**""Hey ChatGPT, Generate a Title About my Class-
Wide Project About ChatGPT.""**

ENG 1092 Class-wide Project on AI Technologies at EIU

Presenters: Taylor Cloud, Gabe McElroy, Alexa Peters

Fac. Mentor: Randall Beebe, English

Panels

2:00-2:50

2-2:50 | BIOCHEMISTRY 1, LUMPKIN HALL 2011

“In Vitro Characterization of Fluorogenic Chemical Tools to Study Human Carboxylesterases (CESs)”

Taylor Spidle

Fac. Mentor: Michael Beck, Chemistry & Biochemistry

“Chemical Biology Approach to Annotate the Influence of Sequence Variations on CES1 Activity in Live Cells

Samuel Knebel

Fac. Mentor: Michael Beck, Chemistry & Biochemistry

“Synthesis and Characterization of Chemical Tools to Study Human Carboxylesterases (CESs)”

Makenzie Walk

Fac. Mentor: Michael Beck, Chemistry & Biochemistry

2-2:50 | CDS 1, LUMPKIN HALL 2030

“Reflection in Action: Exploring Differences between Self-Perception and Clinical Perception of Social Communication Skills in Young Adults with Autism Spectrum Disorder Through Reflective Practices”

Sylvia Kendera

Fac. Mentor: Angela Anthony, Comm. Disorders & Sciences

“Assessing Nonverbal Characteristics in Children with Social Communication Deficits”

Elizabeth Meyer

Fac. Mentor: Nichole Mulvey, Comm. Disorders & Sciences

**“Examining How Trauma Indicators and Consistency
Between Observed and Reported Behaviors of ASD Impact
Differentially Diagnosing Between Autism Spectrum
Disorder and Development Trauma”**

Lauren Ellis

Fac. Mentor: Trina Becker, Comm. Disorders & Sciences

2-2:50 | HEALTH, LUMPKIN HALL 2020

“Rely on Rest”

Caleigh Parsley

Fac. Mentor: Megan Cotner, Public Health & Nutrition and
Dietetics

**“Exploring Anterior Cruciate Ligament Tears and Athletic
Identity as Predictors of Disordered Eating Behaviors in
Female Collegiate Soccer Players.”**

Niondina Nystroem

Fac. Mentor: Dr. Maranda D Schaljo, Kinesiology, Sport &
Recreation.

**“To What Extent does Social Media Play a Role in the
Development of Orthorexia Nervosa?”**

Abigail Mann

Fac. Mentor: Melissa Maulding, Public Health and Nutrition

2-2:50 | LIBERAL ARTS, LUMPKIN HALL 2041

**“Aristotle as Therapist: Applying Rhetorical Theory to
Interpersonal Communication”**

Ian Palacios

Fac. Mentor: Tim Taylor, English

“The Fight for Intellectual Freedom: The American Library Association’s Response to the Rise of Conservative Politics and Culture from 1975-1985”

McKenna Payton

Fac. Mentor: Edmund Wehrle, History

“Arcola: A Diverse Town in Central Illinois”

Will Simmons

Fac. Mentor: Joe Astrouski, Journalism

Oral Presentations

3:00-3:50

3-3:50 | BIOCHEMISTRY 2, LUMPKIN HALL 2011

“Peroxisome-Targeting Chemical Technologies and Tools to Study Subcellular Chemistry”

Pedro Vasquez

Fac. Mentor: Michael Beck, Chemistry & Biochemistry

“Fluorescein-based Fluorogenic Chemical Tools to Study Human Carboxylesterases in Live Cells”

Carolyn Karns

Fac. Mentor: Michael Beck, Chemistry & Biochemistry

3-3:50 | CDS 2, LUMPKIN HALL 2030

“Syntactic Production in Typically Developing Children and Late Talkers”

Emily Gharst

Fac. Mentor: Laurel Teller, Comm. Disorders & Sciences

**“Otolaryngologist and Speech-Language Pathologist (SLP)
Collaboration in Head and Neck Cancer”**

Abigail Moore

Fac. Mentor: Lynne Barcus, Comm. Disorders & Sciences

3-3:50 | ENGLISH HONORS THESES, LUMPKIN HALL 2041

"Is Estella Posthuman?"

Rebekka Budrick

Fac. Mentor: Randy Beebe, English

"Catholic Fiction Revisited"

Elena Dean

Fac. Mentor: Colleen Abel, English

"Classical Rhetoric Today"

Ian Palacios

Fac. Mentor: Tim Taylor, English

"It Stays Under Your Skin: Flipping Coins to Create Dread"

Ethan Miller

Fac. Mentor: Colleen Abel, English

3-3:50 | ENGLISH CAPSTONE PANEL, LUMPKIN HALL 2131

***An American Tragedy* and AI 1**

“An American Tragedy: What Qualifies as Human?”

Brendon Anderson:

**"An American Tragedy: Recipe for Happiness or Robotic
Slavery?"**

Angela Becker:

**"AI Development and Ethics: How a Lack of Proactive
Accountability and Empathy Can Make for a Tragic Future"**

Tyrique Carney:

Fac. Mentor: Suzie Park, English

3-3:50 | TECHNOLOGY AND PROCESSES, LUMPKIN HALL 2020

“Problem Solving and Decision Making Process in Total Quality Management”

Deepa Goda & Sathvika Arlagadda

Fac. Mentor: Mahmoud Al-Odeh, Technology

“Assessing the Knowledge, Attitude and Everyday Life Practices Adopted among Eastern Illinois University Students towards Sustainability.”

Joel Holison

Fac. Mentor: Nichole Hugo, Sustainability

“Improving the Quality in KYC Risk Analyst Fraud Process by using Six Sigma”

Menaka Mittai, Sujay Kumar Kanakamedala, Kathula Akhil Sai & Nagarjun Reddy Sandapally

Fac. Mentor: Mahmoud Al Odeh, Technology

Panels

4:00-4:50

4-4:50 | ENGLISH CAPSTONE PANEL, LUMPKIN HALL 2131

***An American Tragedy* and AI 2**

"Love at First Type"

Elena Dean:

"*An American Tragedy's* Portrayal of Business: How Management Leads to Clyde's Downfall"

Emily Still:

"*An American Tragedy* and the Imitation Game"

Katie Walker:

Fac. Mentor: Suzie Park, English

WANT TO GET INVOLVED? TIPS ON GETTING STARTED WITH STUDENT RESEARCH

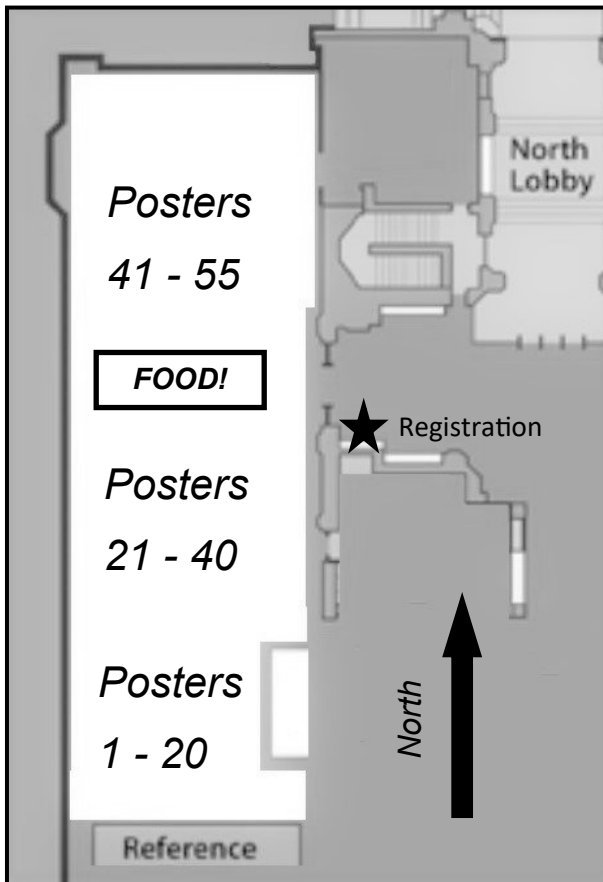
Research is for everyone. It can expand your mind and your horizons, and open up new opportunities.

- Talk to your faculty about opportunities early.
- Ask to shadow or interview a current student doing research.
- Consider developing a research paper or project into something more expansive. Talk to your instructor about how this might work.
- Find out about funding! Undergraduate Research, Scholarship, and Creative Activity Grants are available—see www.eiu.edu/honors/URSCA.php . Open to all undergraduates with a GPA of 3 or higher.
- Got a good GPA? Coming up to junior status? Consider departmental honors!

www.eiu.edu/honors/Departmental_honors.php

Poster Session Map—12:20-1:45

Booth Library West Reading Room



Posters 1-20—Communication Disorders & Sciences

Posters 21-35—Nursing, Health, Nutrition, KSR etc.

Posters 36-42—Counseling, Psychology, Science

Posters 43-47—History, Language,

Posters 48-55—Technology, Art & Design