



A Celebration
of Research and
Creativity

KU Inspires

April 17, 2024

Rohrbach
Library

At-a-Glance Schedule

Paper Presentations

Time	Panel	Location
9:00-9:50	1: CPSC & Math (p. 3)	Rohrbach 28
10:00-10:50	2: Impressions of KU (p. 3)	Rohrbach 28
11:00-11:50	3: Language, Culture, and Identity (p. 3)	Rohrbach 22
12:00-12:50	4: Ethics and Self (p. 4)	Rohrbach 28
12:00-12:50	5: Short Films (p. 4)	Rohrbach 22
1:00-1:50	6: Research Model for FYS (p. 4)	Rohrbach 28
3:00-3:50	7: Shaping our Nation (p.4)	Rohrbach 22
3:00-3:50	8: Graduate and Honors (p.5)	Rohrbach 28

See presenters' names and titles on pages 6-8

9:00am-4:00pm
Rohrbach Library's Brick Lounge

Posters and Artwork



Nikolai Kochel, BA Anthropology, BA History, PA German Studies minor, *KU Inspires 2022*
Photo credit: Abby Regensburger

9
am

PANEL 1: CPSC & Math | Rohrbach 28

“Girth of Algebraically Defined Bipartite Graphs” **KU BEARS** | *Alexa Fisher and Jayna Penn*
Faculty Mentor: Brian Kronenthal

Moderator: Michael Davis, Geography

10
am

PANEL 2: Impressions of KU | Rohrbach 28

“Why Kutztown: Current Undergraduate Students’ Reasons for Choosing KU” | *Julia Damon*
WITHDRAWN Faculty Mentor: Bill Donner

“Impact of a Campus Visit Program on Middle School Students’ Attitudes Toward Higher Education” **KU BEARS** | *Kristin Lipkus and Shelby Jurasits*
Faculty Mentor: Carol Watson

Moderator: Andrew Vogel, English/Honors Program

11
am

PANEL 3: Language, Culture, and Identity | Rohrbach 22

Panel Faculty Mentor: Christine Núñez

“Early Bilingual Development and Code-Switching in Spanglish Among Infants” | *Itzimba Campanur Caro*

“Pedagogical Practices to Maintain Students’ Diverse Cultural and Linguistic Backgrounds and its Effects on Academic Success” | *Lismeylin Feliz*

“Linguistic Relativity: How Language Shapes Thought” | *Abdiel O. Montalvo Santiago*

“Do Bilinguals Exhibit Distinct Personalities? An Investigation of Language’s Influence on Personality and Linked Stereotypes” | *Ryann Thomson*

Moderator: Christine Núñez, Modern Language Studies, Spanish

Afternoon Panels

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PANEL 4: Ethics and Self | Rohrbach 28

12
pm

“Hurricane Maria: How Natural Disasters Shapes Communities” | *Abdiel O. Montalvo Santiago*
Faculty Mentor: Megan O’Byrne

“Finding a Sufficient Definition of Death for the Purpose of Organ Donation” | *Rylie Smith*
Faculty Mentor: John Lizza

Moderator: Chris Harris, Social Work

PANEL 5: Short Films | Rohrbach 22

4
and
5

“The Accident” | *Johan Tejada Verth and Whitney Walters*
Faculty Mentors: Elizabeth Van

“The Agency, The Experience, The Documentary” | *Nicole Barbarito*
Faculty Mentor: Amy O’Brien

Moderator: Andrew Mashintonio, Biology

PANEL 6: Research Model for FYS | Rohrbach 28

1
pm

“Introducing and Developing Research in FYS Courses” | *Sara Aschenbrenner and Max Gattone*
Faculty Mentor: Lynn M. Kutch

Moderator: Lyn McQuaid, Mathematics

Note: no 2pm panels
Please visit the Poster and Artwork Gallery in the Brick Lounge

PANEL 7: Shaping our Nation | Rohrbach 22

3
pm

“A Historiography of Christopher Columbus” | *Hunter Neith* **WITHDRAWN**
Faculty Mentor: Michael Gabriel

“Social Media as a Tool for Spreading Hateful Rhetoric” | *Mykaela Marsh-Cobb*
Faculty Mentor: Jennifer Schlegel

“Redlining in Kensington, Philadelphia, in Association with Gang Injunction” | *Alexis Latterman*
Faculty Mentor: Jennifer Schlegel

Moderator: Tony Wong, Mathematics

one
of
two

PANEL 8: Graduate and Honors | Rohrbach 28

3
pm
two
of
two

GRAD “A Call for an International Video Game Development Standard in Higher Education: A Narrative Review” | *Matthew Lingenfelter* **WITHDRAWN**

Faculty Mentor: Thiep Pham

GRAD “Critical Role’s Candela Obscura: World-Building to Build a Better World” | *Victoria Smurthwaite*

Faculty Mentor: Sandra Leonard

HONORS “STOP and LISTEN: Mac Miller’s Cautionary Tale of Addiction Throughout his Mixtape Faces” | *Nicole Barbarito*

Faculty Mentor: Jonathan Shaw

Moderator: Dale Parson, Computer Science and Information Technology

Undergraduate Research and Creativity Faculty Mentorship Award

2024 Ceremony

Please join us!

TODAY, April 17, 4:30pm
reception to follow
MSU 183



KUTZTOWN
UNIVERSITY

UNDERGRADUATE RESEARCH AND CREATIVITY

Past Recipients

20

Dr. Ed Simpson
Dr. Khori Newlander
Dr. Carol Haney-Watson
Dr. Adrienne Oakley

21

20

Dr. Yun (Amy) Lu
Dr. Carol Mapes
Dr. Yongjae Kim
Dr. Jennifer Schlegel

22

20

Dr. Colleen Clemens
Dr. Nicole Johnson
Dr. Dale Parson

23

The Brick Lounge: 9am-4pm

1 “Determining Context, and Confronting Bias in Amateur Collections”

*Lisa Bogulsavskiy, Kaya Hernandez,
Donald Kershner (10am-1pm: meet the
researchers)*

Faculty Mentors: Khori Newlander

3 “Period Poverty: Its Notable Implications on Menstruating College Students”

*Sage Dunkleberger (10-11 am: meet
the researcher)*

Faculty Mentors: Amy Lynch-Binieck

5 “I Was Never Here”

*Alex Lyons (9am-12pm: meet the
researcher)*

Faculty Mentor: Lynn M. Kutch

7 *KU BEARS*

“An Inquiry-Based Learning Activity to Reduce Mental Health Stigma Among College Students”

*Megan Tewksbury (9am-10am;
11am-1pm: meet the researcher)*

Faculty Mentors: Meghan Owenz and
Gregory Shelley

9 *KU BEARS*

“Natural Dyes and Sustainable Color”

*Hannah Westerman (9am-11am: meet the
researcher)*

Faculty Mentor: gwendolyn yoppolo

2 *KU BEARS*

“Identifying Protein-Protein Interactions with Ctb9 Through a Yeast Two-Hybrid System”

*Therese Coleman (9am-10am: meet the
researcher)*

Faculty Mentor: Cristina Cummings

4 “Avventura in Italia”

*Timmy Houck (10am-12pm; 3pm-4pm:
meet the researcher)*

Faculty Mentor: Loriann Irving

6 “Re-Designed Classics: Designing short stories for publication and the web”

*Michael Martin (11am-12pm: meet the
researcher)*

Faculty Mentor: Dannel MacIlwraith

8 *KU BEARS*

“Uncovering the Past: A Glimpse into the Colonial History of Douglassville, PA”

*Bekah Underwood (9am-10am: meet the
researcher)*

Faculty Mentor: Laura Sherrod

10 *KU BEARS*

“Forging Identity: Reconstructing the Work and Life of a 19th Century Blacksmith through the Analysis of Hand-forged Nails”

*Linda Zuniga (9am-10am Meet the
researcher)*

Faculty Mentor: Khori Newlander

The Brick Lounge: 9am-4pm

11 KU BEARS

“The Proportion of Occupancy of Species in Hawk Mountain Sanctuary”

Alexis Broggi (1pm-2pm: meet the researcher)

Faculty Mentor: Andrew Mashintonio

13 “Exploring Actin Dynamics in the Tip Nucleation Model of Filopodia Formation Using Python”

Dwayne Cordes and Rachel Cuth

(1pm-3pm: meet the researchers)

Faculty Mentor: Danielle Seier

15 KU BEARS

“The Influence of Climate Change on the Reproductive Success of Tree Swallows”

Margaret Friedman (12pm-3pm: meet the researcher)

Faculty Mentor: Todd Underwood

17 “Cheating the System: Academic Integrity at KU”

B. Collin Gilbert (1:30pm-4pm: meet the researcher)

Faculty Mentor: Bill Donner

12 GRADUATE STUDENT

“NCAA Concussion Protocols”

Breann Craley (12pm-2pm: meet the researcher)

Faculty Mentors: Jack Entriiken, Scott Tracy

14 “Pan Troglodytes”

Brett Dumbrowski (2pm-4pm: meet the researcher)

Faculty Mentor: Jennifer Schlegel

16 KU BEARS

“Interference Effects in Quantum Nonlinear Scattering”

Kathryn Gabriel, Michael Lafferty

(1 pm-2pm: meet the researchers)

Faculty Mentor: Kunal Das

18 KU BEARS

“Modeling Host-Parasitoid Population Dynamics”

Jared Guhl (3pm-4pm: meet the researcher)

Faculty Mentor: Brooks Emerick

Thank you!

To all faculty mentors and moderators

Your time is appreciated

The Brick Lounge: 9am-4pm

19 “Astrological Signs in American Almanacs”

Jack Maccari (1pm-4pm: meet the researcher)

Faculty Mentors: Patrick Donmoyer and Jennifer Schlegel

21 “In vitro antifungal activity of diatomaceous earth against the fungal pathogen *Pseudogymnoascus destructans*”

Areyana Montanez (2pm-4pm: meet the researcher)

Faculty Mentor: Kaoutar El Mounadi

23 “Victims’ Forgiveness After the Rwandan Genocide”

Joey Spinelli (1pm-3pm: meet the researcher)

Faculty Mentor: Jennifer Schlegel

20 *KU BEARS*

“Virtual Reality Sports Study”

Tyler Monahan (2pm-4pm: meet the researcher)

Faculty Mentor: Yongjae Kim

22 *KU BEARS*

“Mastering Type: Collecting Images,

Communicating Messages,

Creating Lasting Impact Through Typography”

Karleigh Patton (12pm-4pm: meet the researcher)

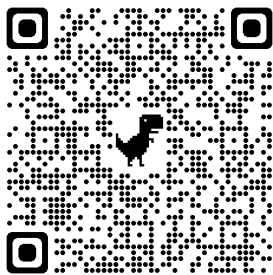
Faculty Mentor: Denise Bosler

24 *GRADUATE STUDENT*

“Major Events Affecting Trends of Child Abuse in Pennsylvania: The Sandusky Case and COVID-19 Effects”

Felix Vasquez (12 pm-4pm: meet the researcher)

Faculty Mentor: John Vafeas



KU BEARS GRANT FUNDING

Purpose: The purpose of the KU BEARS program is to support faculty/student research pairs over the summer. The goals are twofold: for undergraduate students to develop the necessary skill set to become student researchers and to provide faculty members with paid student research assistants. Undergraduate students selected for the program will receive summer pay for research tasks assigned by a faculty supervisor. By assisting faculty members in their research, students selected for the program will obtain the knowledge and skills necessary for conducting advanced research in their field.

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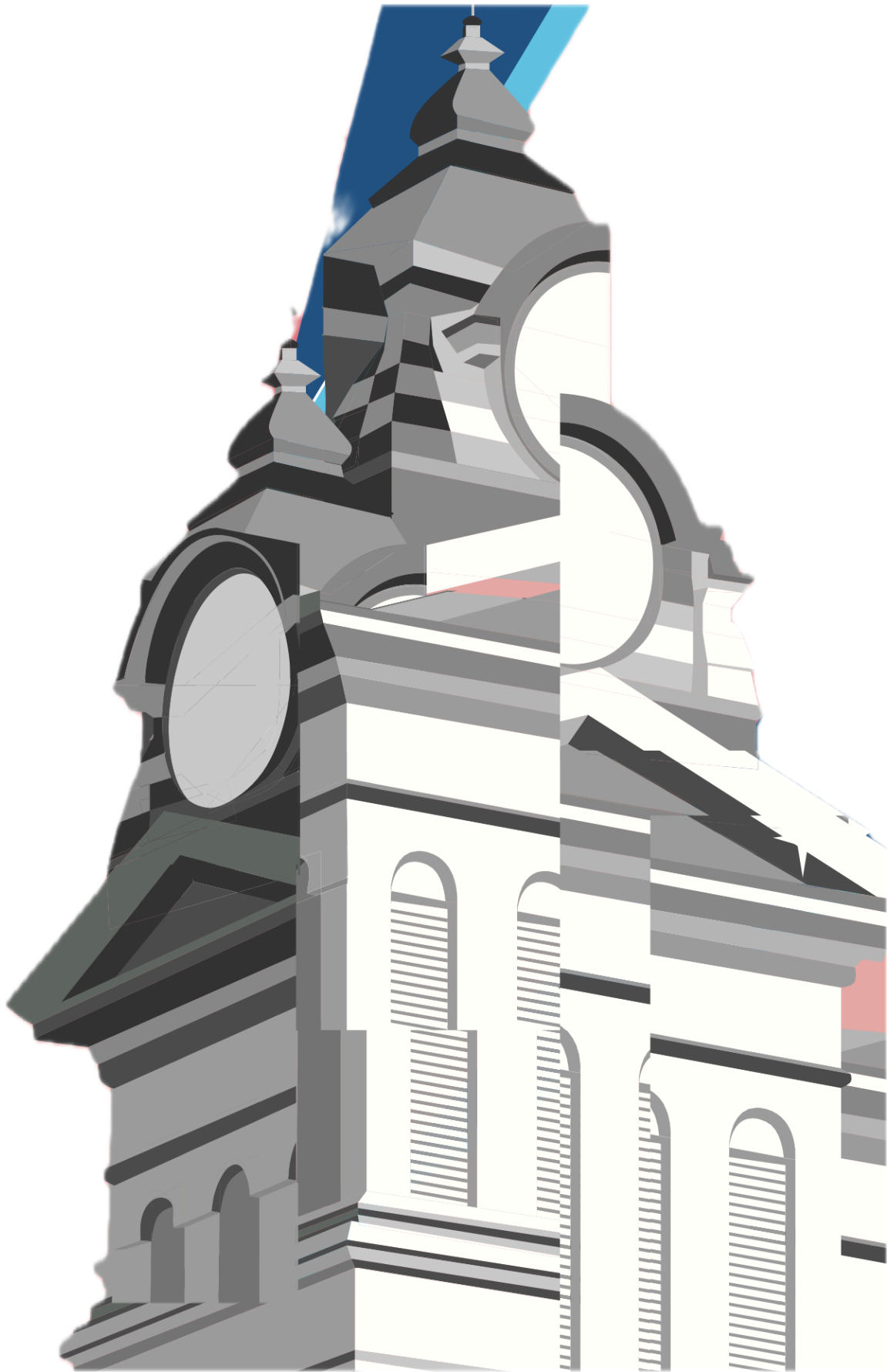
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Poster design: Jake Geiger



*KU Inspires Planning: Heather Arbuckle,
Susan Czerny, Lynn M. Kutch*

Program Layout and Design: Lynn M. Kutch