

Kutztown University

## Research Commons at Kutztown University

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KU Inspires! Undergraduate Research Day

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Apr 17th, 9:00 AM - 3:00 PM

### Program and Schedule for KU Inspires, April 17 2024.

Undergraduate Research Office, Kutztown University

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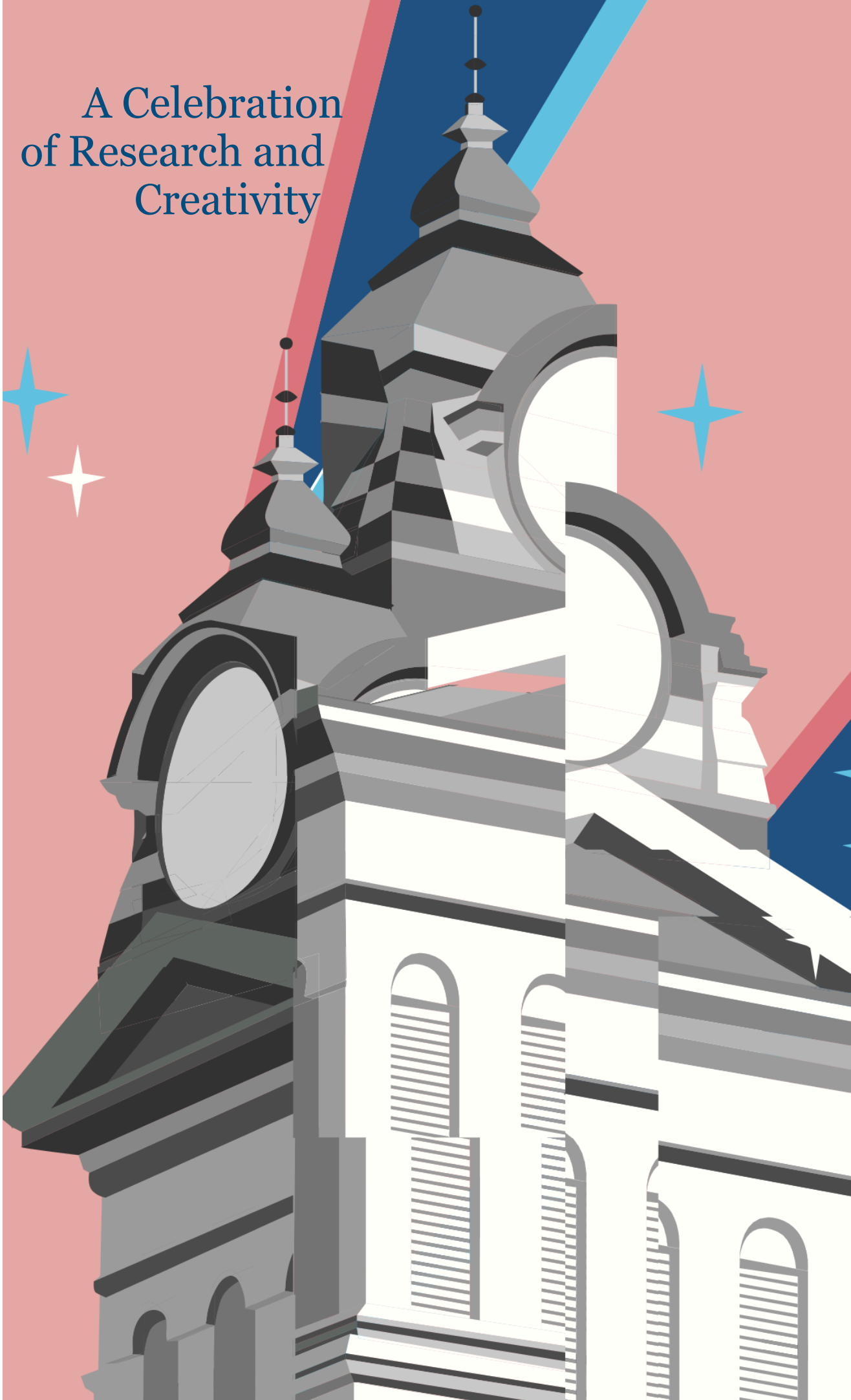
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#### Recommended Citation

Undergraduate Research Office, Kutztown University, "Program and Schedule for KU Inspires, April 17 2024." (2024). *KU Inspires! Undergraduate Research Day*. 1.

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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

## Posters and Artwork

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



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*  
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

page 4

12  
pm

## PANEL 4: Ethics and Self | Rohrbach 28

“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

4  
and  
5

## PANEL 5: Short Films | Rohrbach 22

“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

1  
pm

## PANEL 6: Research Model for FYS | Rohrbach 28

“Introducing and Developing Research in FYS Courses” | *Sara Aschenbrenner and Maximilian 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

3  
pm

## PANEL 7: Shaping our Nation | Rohrbach 22

“A Historiography of Christopher Columbus” | *Hunter Neith*

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

one  
of  
two

Moderator: Tony Wong, Mathematics

## 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*

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 Mentor: Khor Newlander

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

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

Faculty Mentor: 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: Khor 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: David Webb

**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 Mentor: Patrick Donmoyer

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

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

Faculty Mentor: Katour 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)*

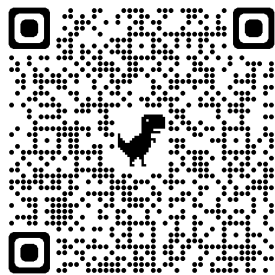
Faculty Mentor: Denise Bosler

**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.

# Index of Presenters

## Asc-Lin

Name of Researcher	Presentation Type	Page Number	Misc
Aschenbrenner, Sara	Paper	4	
Barbarito, Nicole	Film/Paper	4,5	
Boguslavskiy Lisa	Poster	6	
Broggi, Alexis	Poster	7	KU BEARS
Campanur Caro, Itzimba	Paper	3	
Coleman, Therese	Poster	6	KU BEARS
Cordes, Dwayne	Poster	7	
Craley, Breann	Poster	7	Grad Student
Cuth, Rachel	Poster	7	
Damon, Julia	Paper	3	
Dombrowski, Brett	Poster	7	
Dunkleberger, Sage	Poster	6	
Felix, Lizmeylin	Paper	3	
Fisher, Alexa	Paper	3	KU BEARS
Friedman, Margaret	Poster	7	KU BEARS
Gabriel, Kathryn	Poster	7	KU BEARS
Gattone, Max	Paper	4	
Gilbert, B. Collin	Poster	7	
Guhl, Jared	Poster	7	KU BEARS
Hernandez, Kaya	Poster	6	
Houck, Timmy	Artwork	6	
Jurasits, Shelby	Paper	3	KU BEARS
Kershner, Donald	Poster	6	
Lafferty, Matthew	Poster	7	KU BEARS
Latterman, Alexis	Paper	4	
Lingenfelter, Matthew	Paper	5	Grad Student

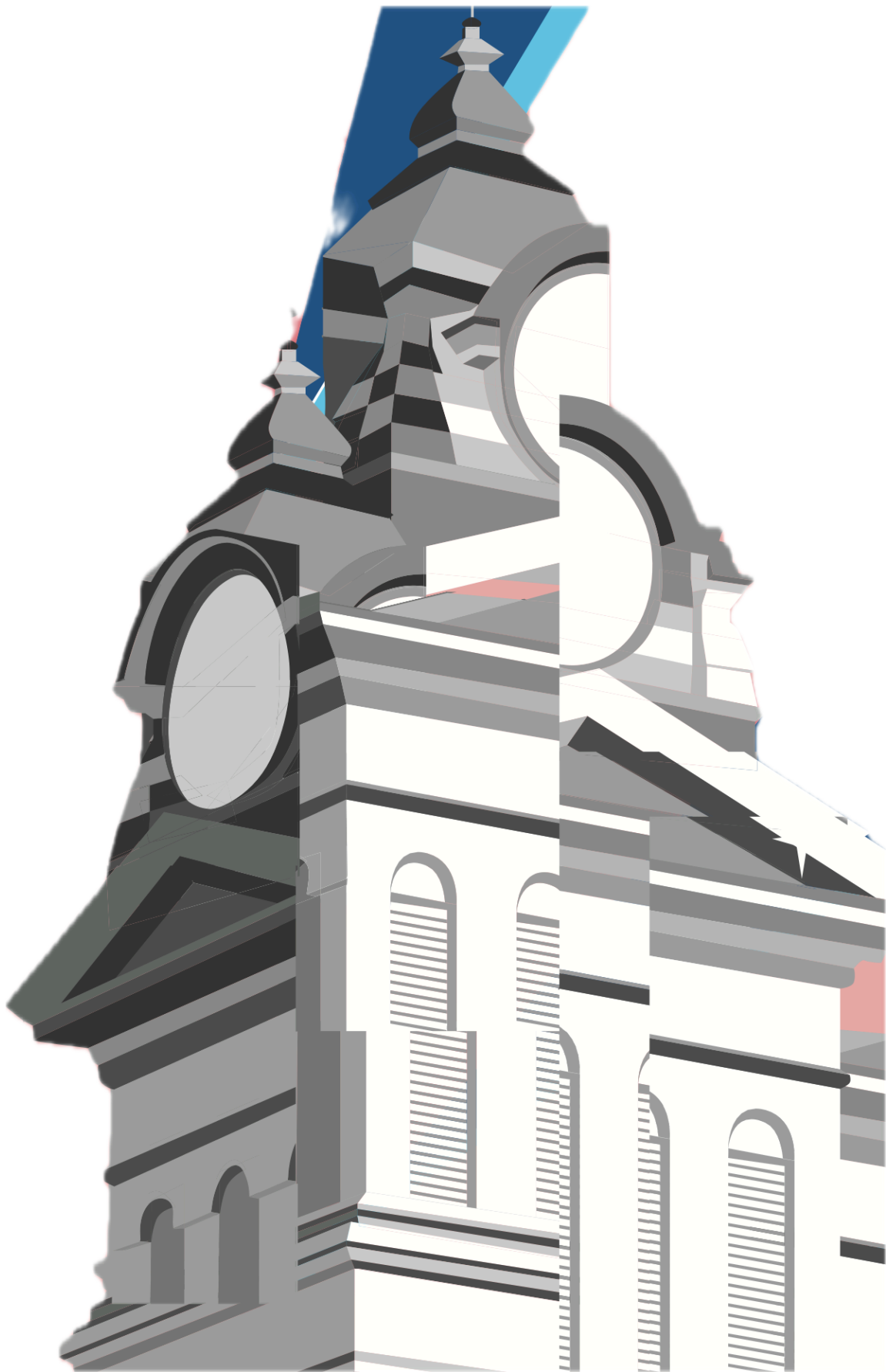
# Index of Presenters (continued)

## Lip-Zun

Name of Researcher	Presentation Type	Page Number	Other
Lipkus, Kristin	Paper	3	KU BEARS
Lyons, Alex	Artwork	6	
Maccari, Jack	Poster	8	
Marsh-Cobb, Mykaela	Paper	4	
Martin, Michael	Poster	6	
Monahan, Tyler	Poster	8	KU BEARS
Montalvo Santiago, Abdiel	Paper	3,4	
Montanez, Arayana	Poster	8	
Neith, Hunter	Paper	4	
Patton, Karleigh	Poster	8	KU BEARS
Penn, Jayna	Paper	3	KU BEARS
Smith, Rylie	Paper	4	
Smurthwaite, Victoria	Paper	5	Grad Student
Spinelli, Joey	Poster	8	
Tejada, Johan	Poster	4	
Tewksbury, Megan	Poster	6	KU BEARS
Thomson, Ryann	Paper	3	
Underwood, Bekah	Poster	6	KU BEARS
Vasquez, Felix	Poster	8	Grad Student
Westerman, Hannah	Artwork	6	
Zuniga, Linda	Poster	6	KU BEARS



Poster design: Jake Geiger



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

***Program Layout and Design: Lynn M. Kutch***