

# HELLO!

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# The Library's Synergy with Campus Coordinators of Undergraduate Research

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March 25, 2021



The Council on Undergraduate Research (CUR) defines undergraduate research as “an inquiry or investigation conducted by an undergraduate student that makes an original intellectual or creative contribution to the discipline.”



Its central premise is the formation of a collaborative enterprise between student and faculty member-most often one mentor and one burgeoning scholar but sometimes (particularly in the social and natural sciences) a team of either or both. This collaboration triggers a four-step learning process..." (NCUR, 2005)

Student, process centered ---> Outcome, product centered

*Student initiated* -----> *Faculty initiated*

All students -----> Honors students

*Curriculum based* -----> *Co-curricular fellowships*

Collaborative -----> Individual

*Original to the student* -----> *Original to the discipline*

Multi or interdisciplinary -----> Discipline based

*Campus audience* -----> *Professional audience*

# Continuum of undergraduate research:

## Students as consumers

**Level 1:** Students are provided with an overview of the basic facts, terms, and ideas related to the discipline.

**2:** Students learn about research findings in the (sub)field through lectures and readings dedicated to current research.

**3:** Students discuss and critique research findings and approaches in the (sub)field. Assignments include literature reviews or summaries.

**4:** Students learn some research methodologies; engage in limited applications of those approaches in the course of assignments such as statistical analysis.

# Continuum of undergraduate research: Students as producers

**Level 5:** Students learn in a course dedicated to the research methodologies, engage in extensive applications of a variety of approaches.

**6:** Students engage in faculty designed and led original (to the student) research such as replications existing studies.

**7:** Students engage in faculty designed and led original research such as research related to faculty projects and/or conducted in faculty labs.

**8:** Students engage in student designed and led original (to the discipline) research such as a senior thesis or capstone project.

# What does it mean to be “original”?

- ⊗ That is the origin or source of something; from which something springs, proceeds, or is derived; primary
- ⊗ Designating the thing, as a document, text, picture, etc., from which another is copied or reproduced; that is the original
- ⊗ Belonging to the beginning or earliest stage of something; existing at or from the first; earliest, first in time



# How is “authentic” research different?

- ⊗ Having the quality of verisimilitude, true to life
- ⊗ Of a document, artefact, artwork, etc.: having the stated or reputed origin, provenance, or creator; not a fake or forgery.
- ⊗ Designating a mode of existence which has its basis in self-awareness, critical reflection on one's goals and values, and responsibility for one's own actions; of or relating to this.

# 50%

# strongly agree

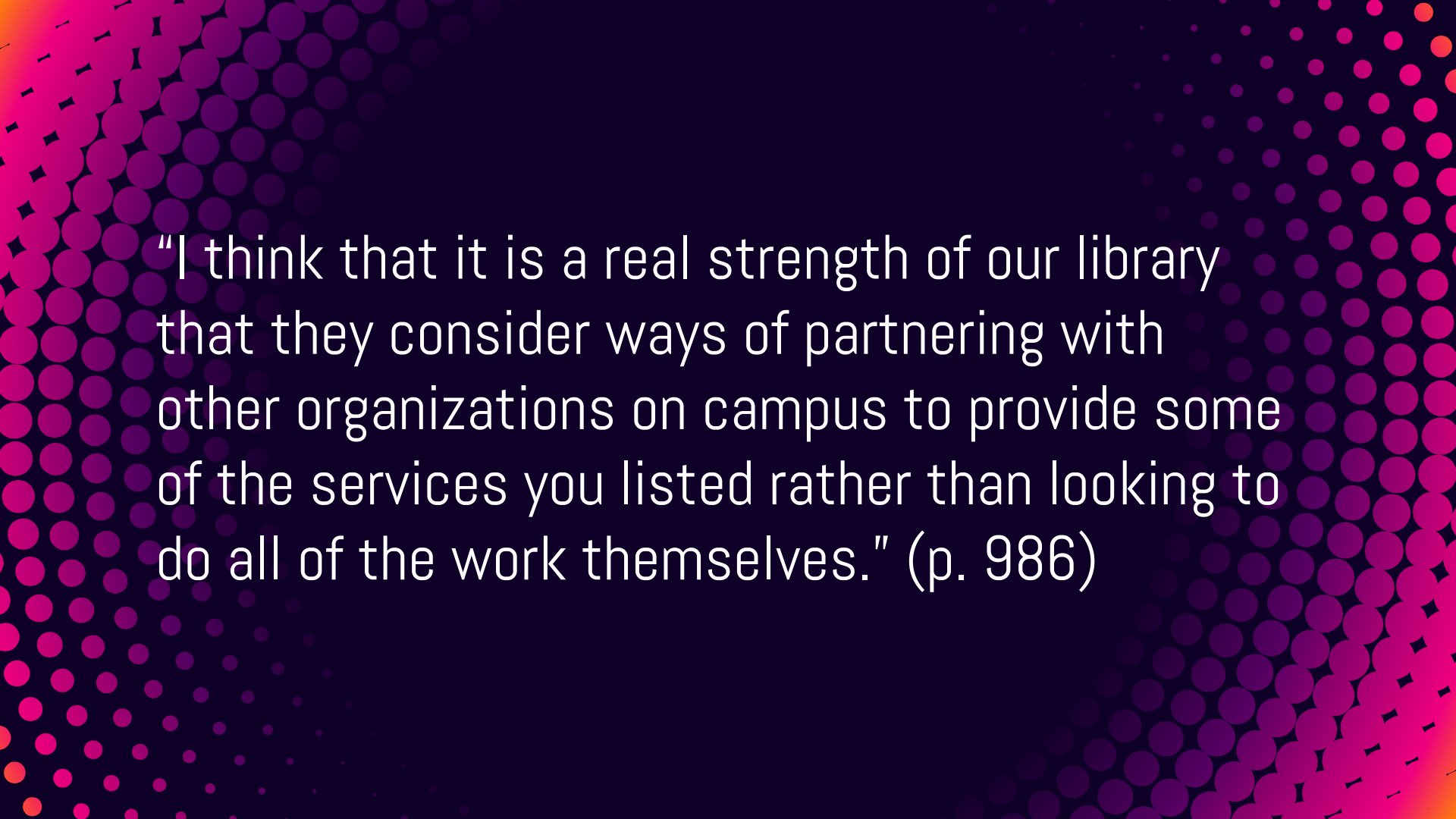
Agreement with Statement: "The Library is Important to the Success of the Undergraduate Research Program" by Type of Respondent (n=158)

## Table 5: Of the Services the Library Offers, Please Rank in Terms of Their Value for Support of Student Work and Your Campus Undergraduate Research Program (n=158)

- Instruction on research and publication (87%)
- Making available online original student research, including creative works (75%)
- Expanded support for collections (73%)
- Design and/or printing of research posters and publications (72%)
- Hosting undergraduate research journals (65%)
- Assistance with securing rights for material included in publications (63%)
- Awards (e.g. for best papers or posters) (55%)
- Space (52%)
- Hosting or collaborating with other units to sponsor research symposia (51%)



I guess I just don't look to the library to provide these services. I think the faculty themselves would provide better, more targeted support." (p. 985)



"I think that it is a real strength of our library that they consider ways of partnering with other organizations on campus to provide some of the services you listed rather than looking to do all of the work themselves." (p. 986)

The background features a dark blue to black gradient. Overlaid on this are two large, semi-circular patterns of circles. The circles on the left are a vibrant pink, while the circles on the right are a deep purple. These patterns appear to be part of a larger, repeating geometric design. In the center, the text "FINDING COMMON GROUND" is displayed in a clean, white, sans-serif font.

FINDING COMMON GROUND

I originally worked with a faculty member and then he had to go abroad so a grad student took over. Both were great!

All I gotta say is that I started as an mcb major then started working in the chan lab which is an organic lab and I switched majors to chem the very next semester. I put in 40-50 hours a week though, spend all the rest of my time studying, don't go to parties anymore, ghosted all my friends, lost 15 pounds from stress and not taking time off to leave lab and eat food, don't sleep, don't answer my parents calls, but you win some you lose some. I'm so happy/motivated when working there that I view my academic hw as 'BuSy WoRk' thats stopping me from doing things actually beneficial/impactful (getting publication and grants ).

I enjoyed having the opportunity to learn from an expert in a very small field. My mentor was extremely patient when answering my questions.

They're simultaneously very smart and very respectful; I was always making actual contributions to the research, rather than feeling like I'm just sitting on the sidelines. They made the project accessible and treated all of us working on it as equals.

# WHAT WE LEARNED

- 56% of 2187 students participated in undergraduate research (2019)
- Engineering and LAS are the most colleges that see UGR
- More female than male students are doing research and a greater proportion of women do research than not





Our goal is to provide a self-study of undergraduate research culture on this campus (what we are characterizing as a 'culture of discovery'), to gauge effective (ongoing or needed) institutional practices, and to be of use in student recruitment, engagement, retention, alumni and corporate donor relations, and campus and system strategic planning.

Short term goals:

- Identify what relevant data already exists on campus, and how it's being collected
- How can we organize data from different sources in order to begin building our long term institutional profile

Long term goals:

- Develop a centralized repository where campus stakeholders can have access to the compiled data
- Understand how high impact educational projects, including undergraduate research, impact students during undergraduate years and beyond (tied in with new 'student success' initiative)

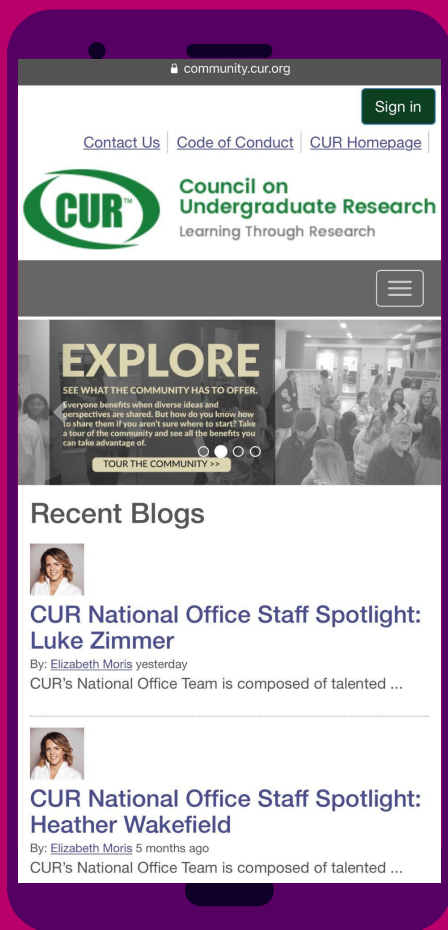
# WHAT HAPPENS WHEN STUDENTS DON'T OWN THE DATA



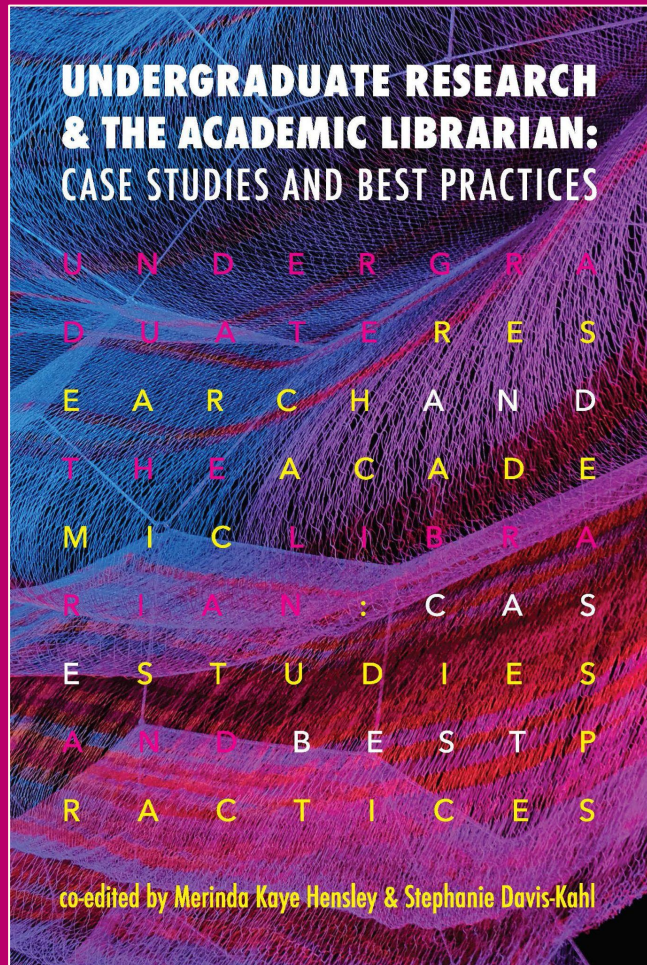
# Research ethics and archiving student work



So, where does  
that leave us?



# Librarians and Archivists Student Journals



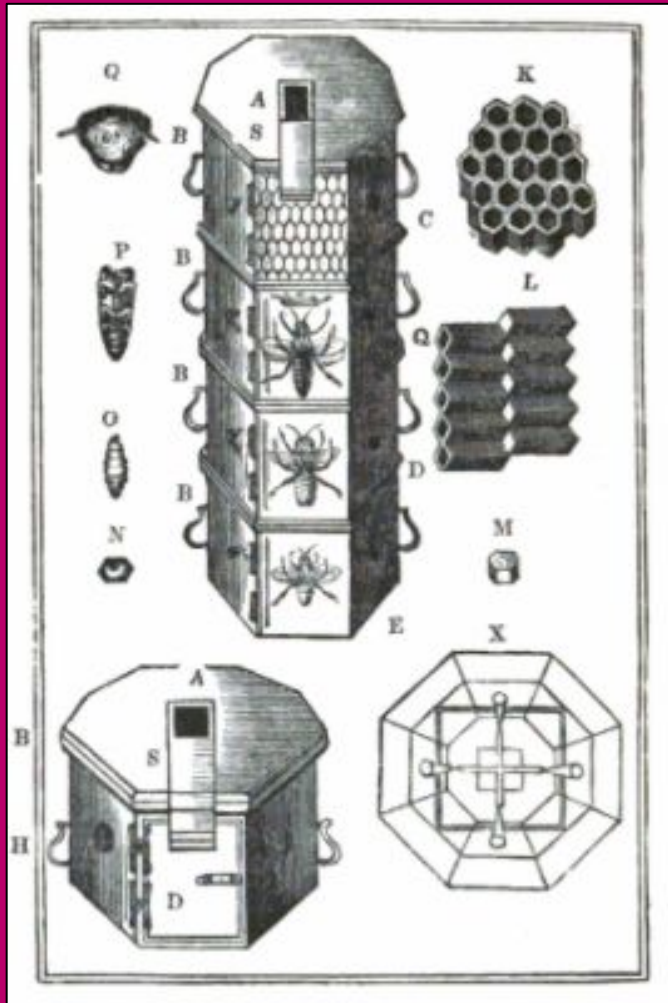
## Watch for ACRL Book #2 mid-2022

Edited by Merinda Kaye Hensley,  
Stephanie Davis-Kahl, and  
Hailley M. Fargo

# CUR: Centering Diversity, Equity, and Inclusion in UR and Creative Activity Conference

- ⊗ Allyship in Undergraduate Research: How can programs, leaders, faculty, and staff be good allies?
- ⊗ Diversity in Undergraduate Research: How can we expand access, outreach, and recruitment?
- ⊗ Equity in Undergraduate Research: How can we restructure outdated systems?
- ⊗ Inclusive Curriculum/Program Design and Assessment: How can we design student-centered programs and create new pathways for underrepresented groups?
- ⊗ Inclusive Mentoring: How can we ensure mentoring across identities?

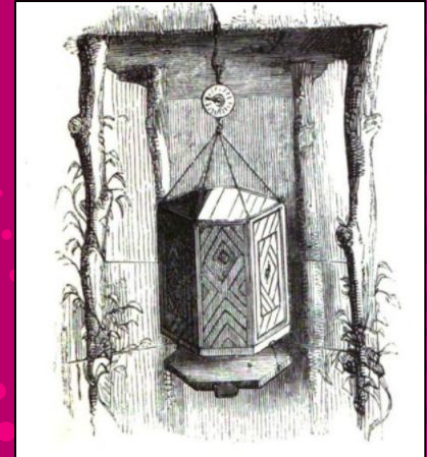




## Parallels of the Evolution of Beekeeping + Printmaking

"People all around the world came together to create a more efficient and profitable hive while protecting the lives of the bees. This was made possible by the advancement of imagery. Without the invention of woodcuts, the process of copper plating would have taken too long and cost too much to make the number of prints necessary to keep up with the demand for honey that people needed."

**Dahlia Hensley**  
 Junior, Art + Design  
 Iowa State University





# THANKS!

questions? thoughts? feelings?

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# CREDITS

Special thanks to all the people who made and released these awesome resources for free:

- ⊗ Presentation template by [SlidesCarnival](#)
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