


Working at a Research-Intensive University

While doing my part to make computing inclusive



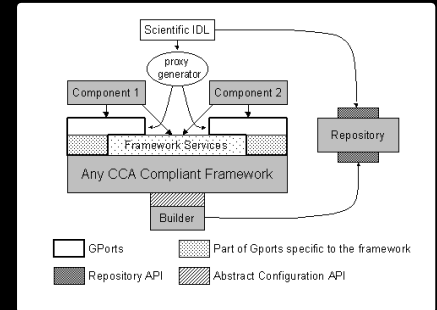
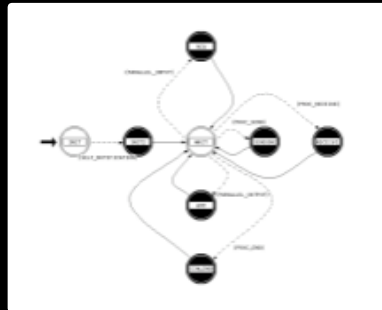
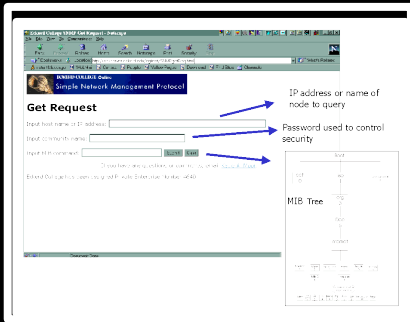
Katie A. Siek
Indiana University
ksiek@iu.edu

 @katie@hci.social

Alt Text Presentation:
<https://bit.ly/FutureSiek24>



Searching for passion... *Experimenting with Research*



Eckerd College – SNMP



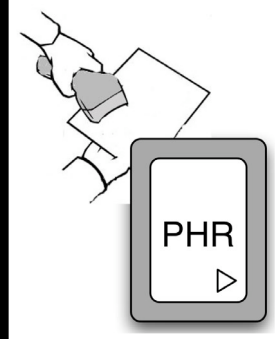
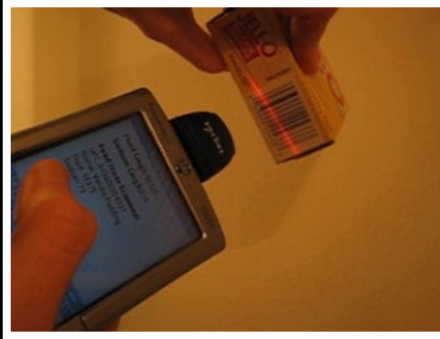
Notre Dame –Memory



IU - CCA



My Passion: Empowering Everyone



IU – Feeding Tube & DIMA

CU – CoCareTablet, Health Bridge

IU - Health Sense



Collaborate with people

Investigate challenges

Solve problems

How can we help people who do not want to be pregnant?

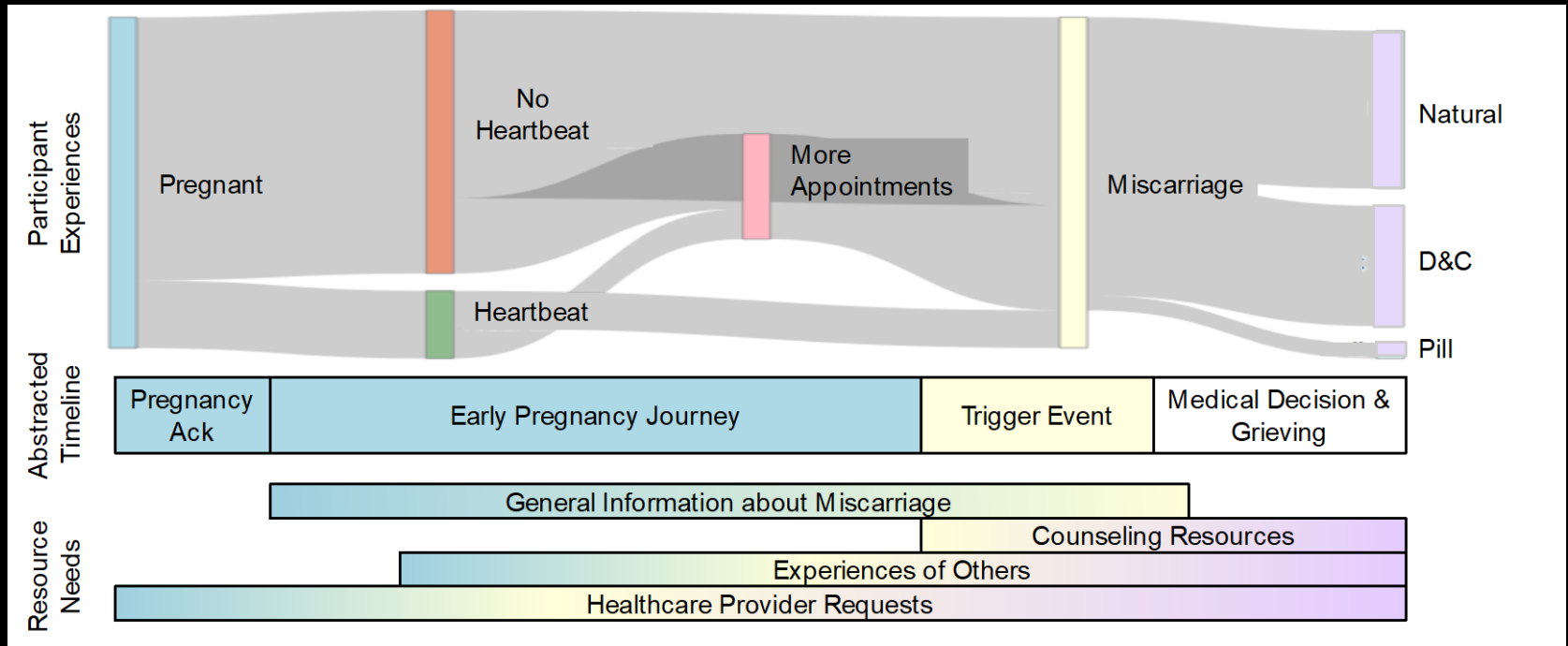
"Today and everyday forward ***I want you to say the word 'abortion' out loud*** daily. Talk about abortion at the dinner table. Talk about abortion with your children. Talk about abortion with your parents. The best way we can ***remove shame and stigma*** is by ***saying the damn word!***"

Lead RA



Michaela Krawczyk
IU Ph.D. Student

How can we help people who lost their pregnancy?



Lucia Guerra-Reyes
Indiana University



Cassie Kresnye
IU Ph.D. (2023)
Data Scientist - Mars



Maria Wolters, Ph.D.
University of Edinburgh



Mona Alquassim
U. Edinburgh Ph.D. (2021)

How can we identify who needs help?

Indiana University senior uses AI software to speed dyslexia detection

May 8, 2019 · by [srountree](#) · [Leave a comment](#)



Indiana University Bloomington senior Katie Spoon has been researching a way to speed up this process using artificial intelligence to analyze children's handwriting. Photo by Eric Rudd, Indiana University



David Crandall, Ph.D.
IU Computer Science

How can we help people age in place?



Ben Jelen
IU Ph.D. (2022)
Asst. Prof – Rose-Hulman

Amanda Lazar, Ph.D.
University of Maryland

Alisha Pradhan
U. MD PhD (2022)
Asst. Prof - NJIT

Madison Hollowell
Undergraduate Researcher

Adileah Smith
Undergraduate Researcher
Developer – Strategic Tech

Anne Freeman
Undergraduate Researcher
Data Engineer - Facebook

Mina Nararayan
Undergraduate Researcher
AI Assessor - CSET

Susan Monsey
Undergraduate Researcher
Developer – Northrup
Grumman

Left: Stinne Aaløkke Ballegaard, Jonathan Bunde-Pedersen, and Jakob E. Bardram. 2006. Where to, Roberta?: reflecting on the role of technology in assisted living. In Proceedings of NordiCHI '06, 373-376.

Right: Example quilt from study participant (Ben Jelen and Katie Siek)

Be reflective

What happens if we analyze this data from different viewpoints?



Ben Jelen
IU Ph.D. (2022)
Asst. Prof – Rose-Hulman

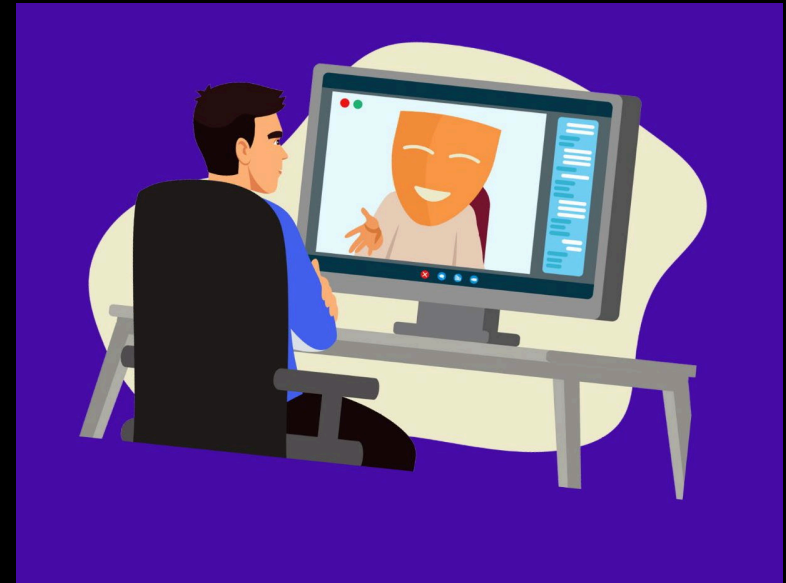


Amanda Lazar, Ph.D.
University of Maryland



Alisha Pradhan
U. MD PhD (2022)
Asst. Prof - NJIT

What happens if participants are not who they say they are?



Christina Chung, Ph.D.
UC Santa Cruz



Aswati Panicker
IU Ph.D. Student



Novia Nurain
IU Ph.D. (2023)
U. Michigan Post Doc



Zaidat Ibrahim
IU Ph.D. Student



Yuxing Wu
IU Ph.D. Student



Seung Wan Ha
UCSC Ph.D. Student



Ariel Wang
UCSC Ph.D. Student



Michaela Krawczyk
IU Ph.D. Student

How to inform STEM oriented funding and policy?

Request for Information: Developing Consent Language for Research Using Digital Health Technologies

Notice Number:

NOT-OD-24-002

Key Dates

Release Date:

October 11, 2023

Response Date:

December 12, 2023

Related Announcements

None

Issued by

Office of The Director, National Institutes of Health (OD)

National Heart, Lung, and Blood Institute (NHLBI)

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)



CCC

Computing Community Consortium
Catalyst



CRA-I

Computing Research Association
Industry



CRA

Computing Research
Association

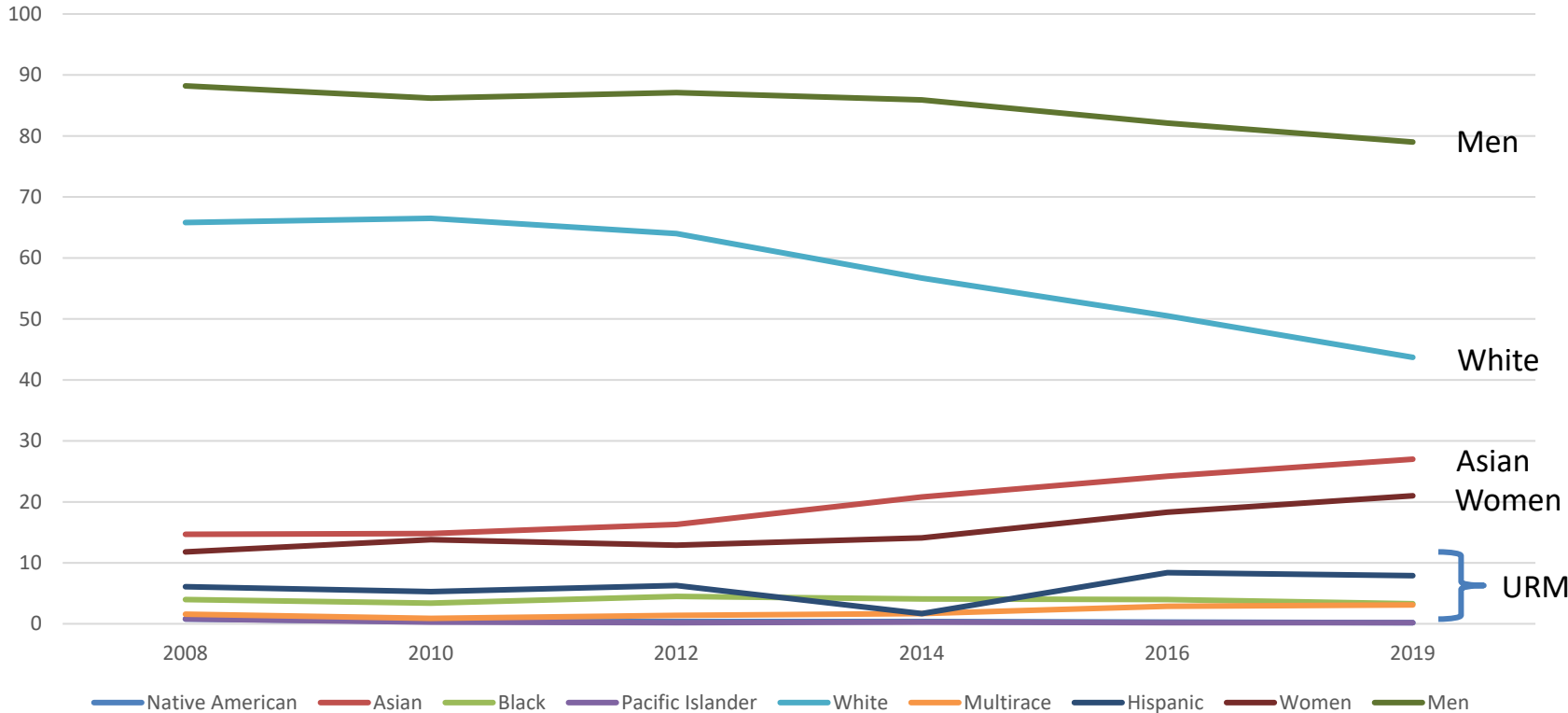
The Computing Research Association (CRA)'s Computing Community Consortium (CCC) and CRA-Industry (CRA-I) Response to the National Institutes of Health's [Request for Information Developing Consent Language for Research Using Digital Health Technologies](#)

December 12, 2023

Written by: David Danks (University of California, San Diego), Haley Griffin (Computing Community Consortium), Tammy Toscos (Parkview Health), Katie A. Siek (Indiana University), and Pamela Wisniewski (Vanderbilt University)

I can be a change maker...

Demographics of Computer Science Bachelor Degree Receipts



Data from <https://cra.org/resources/taulbee-survey/>

ProHealth Indiana University develops diverse undergraduates into scholars

In 5 years, trained 48 site-funded and 60 affiliated REUs

87% from historically excluded groups

8 full conference papers

40% went to graduate school

Outreach to almost 400 children and 100 older adults



The ProHealth Site is by IIS-1852294 (2019-2021). The first SICE REU Site was supported by CNS-1560276 2016-2019.





#Hello Research!

3-day research-focused workshop for underrepresented groups in computing

- 92 women
- 21 states
- 33 low SES
- 29 first generation college students
- 6 people with disabilities



Suzanne Menzel



David Crandall

Integrate diversity into a Gen Ed

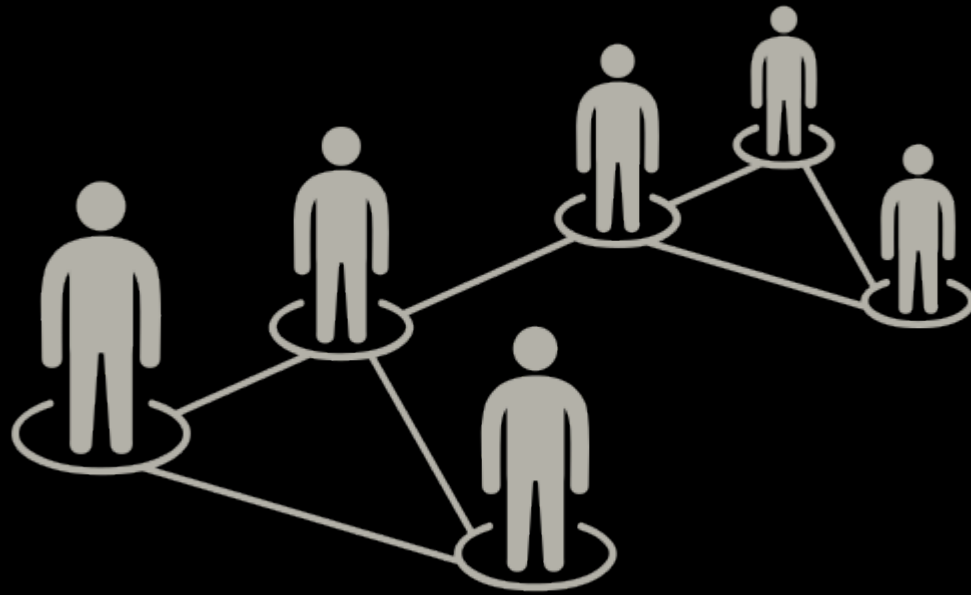
Students learn about computing while creating a social media campaign and website about a historically excluded person in tech

The US Department of State used the student posts to celebrate Women's History Month



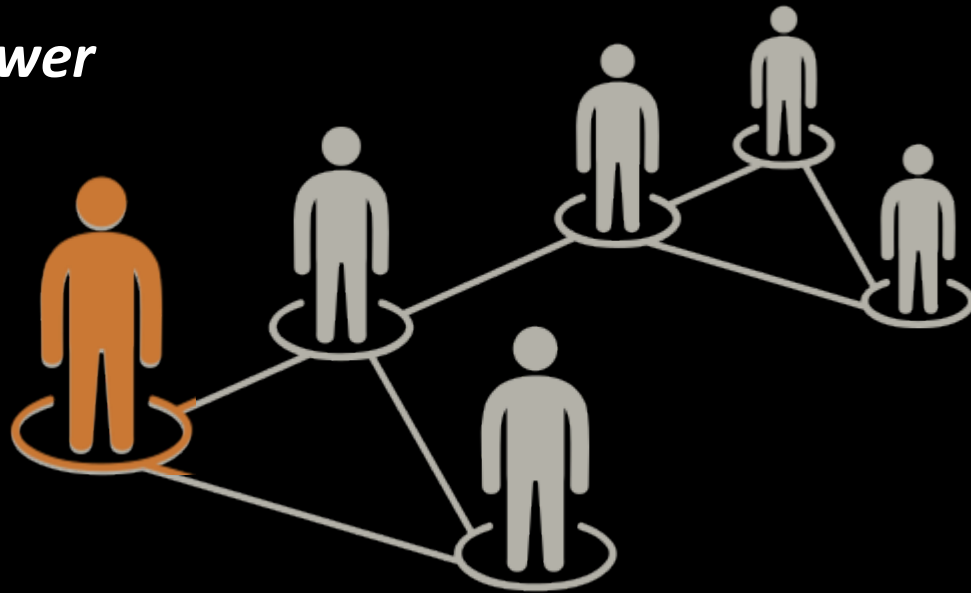
I would like to *help* you, but...

- Managing all the bits
- Finding someone who will act



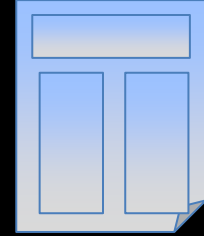
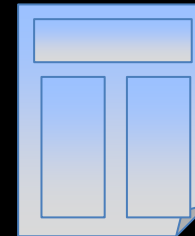
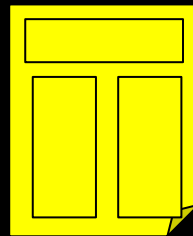
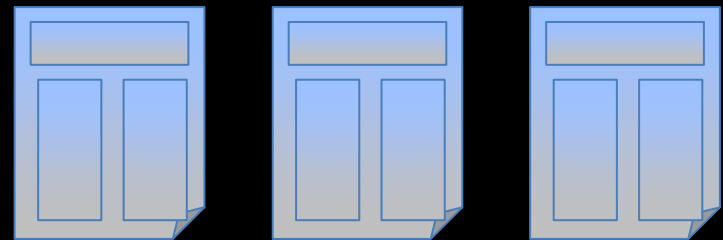
I would like to *help* you, but...

- Managing all the bits
- Finding someone who will act
- Identifying your *power*



...nevertheless, they persisted...

- Managing all the bits
- Finding someone who will act
- Identifying your *power*
- Dealing with rejection



Working at a Research-Intensive University

- Research topics you love
- Collaborate with brilliant people
- Enact change
- Hone non-existent management skills

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