KATHLEEN ISENEGGER (SHE/HER)

Computer Science Education

4827 W. Addison St. Chicago, IL 60641

(517)-304-7211 ⋄ kti3@illinois.edu ⋄ kti3.github.io

EDUCATION

University of Illinois Urbana-Champaign (UIUC)   *September 2020 - Present*
Ph.D. in Computer Science
Advisor: Colleen M. Lewis

Amherst College, Massachusetts   *September 2016 - May 2020*
Bachelor of Arts cum Laude with Distinction
Computer Science and Sexuality, Women's, and Gender Studies

FELLOWSHIPS

UIUC
Broadening Participation in Computing (BPC) Fellowship   *May 2021 - August 2022*
Ray Ozzie Fellowship   *August 2020 - May 2021*

HONORS/AWARDS

UIUC
CS Dept. Outstanding Teaching Assistants   *Fall 2022*

Conference Awards
ICER Best Paper Honorable Mention Award   *August 2024*

PEER-REVIEWED, ARCHIVED, CONFERENCE PUBLICATIONS

Isenegger, K., Fowler, M., Hammer, D., Leff, B., Gertner, Y., and Pitt, L. (*Forthcoming*). Integrating a CS+Social Science Project into STEM and Non-STEM High School Courses. *Technical Symposium on Computer Science Education (SIGCSE '25)*

Isenegger, K. and Lewis, C. M. (*Forthcoming*). Replicating a Goal-Congruity Intervention. *Journal of Computing Sciences in Colleges (CCSC Rocky Mountain '24)*

Ojha, V., Watkins, A., Perdriau, C., **Isenegger, K.**, and Lewis, C. M. (2024). Instructional Transparency: Just to Be Clear, It's a Good Thing. *ACM Conference on International Computing Education Research (ICER '24)*

Isenegger, K., Fowler, M., Gertner, Y., Hegeman-Davis, R., and Pitt, L. (2024). Designing and Piloting a High School CS+X Topics Course. *Technical Symposium on Computer Science Education (SIGCSE '24)*

Isenegger, K., George, K., Lewis, C. M., and Bruno, P. (2023). Goal-Congruity Theory Predicts Students Sense of Belonging in Computing Across Racial/Ethnic Groups. *Technical Symposium on Computer Science Education (SIGCSE '23)*

Isenegger, K., Birhane, Y., Ojha, V., Coxe, C. and Lewis, C. (2021). Understanding and Expanding College Students' Perceptions of Computing's Social Impact. *6th Annual Conference on Research in Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT '21)*

Isenegger, K., Dong, Y., Shang, M., Furst, J. and Stan-Raicu, D. (2019). Characterizing and Quantifying Diagnostic (Un)Certainty in Medical Reports Through Natural Language Processing. *6th Annual Conference on Computational Science and Computational Intelligence (CSCI '19)*

Isenegger, K., Dong, Y., Glaser, E., Morain, A. and Gemmell, J. (2019). Comparing Automatically Extracted Topics from Online Mental Health Disorder Forums. *6th Annual Conference on Computational Science and Computational Intelligence (CSCI '19)*

WORKSHOPS

Lewis, C. M., Fowler, M., **Isenegger, K.**, Ojha, V., Perdriau, C., Saffar Pérez, M., (2022) Using Physical Models of Java to Make Abstract Concepts Concrete. *Technical Symposium on Computer Science Education (SIGCSE '23)*

TEACHING

UIUC

Discrete Math for CS Teachers	*Fall 2024*
Discrete Structures	*Spring 2024*
CS0: Intro CS for Non-Majors	*Spring 2021, Fall 2022*
CS Research and Service Seminar	*Fall 2021, Spring 2022*
User Interface Design	*Fall 2020*

Academy High (Champaign, IL)

CS Elective: CS+X	*Fall 2023*

Digital Scholars (Chicago, IL)

Discovering Electronic and Computer Engineering	*Summer 2023*

UIUC Laboratory High School

CS Elective: CS+X	*Spring 2023*

Amherst College

CS1: Intro to CS	*Spring 2018, Spring 2020*
Algorithms (Lead TA)	*Fall 2019*
CS2: Intro to CS 2	*Fall 2018*

Tutoring

Python, HTML	*May 2022 - October 2024*

SERVICE

Illinois High School Summer CS Research Program	*January 2023 - Present*
Program organizer and mentor	
Chicago Pre-College Science and Engineering Program	*April 2024*
Teacher	
Grainger Engineering Summer Camps	*July; 2022, 2024*
Teacher	
Upward Bound Summer Internship Program	*Summer; 2022-2024*
Mentor and teacher	
BPC K-12 Outreach and Recruiting Subcommittee	*September 2021 - May 2023*

UIUC CS Direct Reading Program *December 2022 - January 2023*

UIUC Education Justice Project *April 2023*
CS Workshop teacher

Illinois CS Kickstart (College Bridge Program) *August 2021, 2022*
Lead organizer and teacher

UIUC Graduate Students Union (GEO)
CS department steward *August 2021 - May 2023*

Officer at large *August 2021 - May 2022*

RESEARCH EXPERIENCE

Syntax Exercise Project *November 2023 - Present*
Advisor: Colleen M. Lewis   Institution: UIUC

High School Mentoring Project *September 2023 - Present*
Advisor: Yael Gertner   Institution: UIUC

CS+X Curriculum Project *January 2022 - Present*
Advisor: Yael Gertner   Institution: UIUC

Goal Congruity Theory Project *January 2021 - Present*
Advisor: Colleen M. Lewis   Institution: UIUC

Instructional Transparency Project *January 2024 - August 2024*
Advisor: Colleen M. Lewis   Institution: UIUC

BPC Enactment Strategies Project *October 2020 - April 2024*
Advisor: Colleen M. Lewis   Institution: UIUC

Devaluation Theory Project *January 2022 - June 2023*
Advisor: Colleen M. Lewis   Institution: UIUC

User-Interface for Unstructured Feedback Project *August 2020 - December 2020*
Advisor: Brian Bailey   Institution: UIUC

Data Mining Approximation Algorithm Project *September 2019 - May 2020*
Advisor: Matteo Riondato   Institution: Amherst College

Diagnostic Uncertainty Natural Language Processing Project *June 2019 - November 2019*
Advisor: Jacob Furst   Institution: DePaul University

Mental Health Reddit Natural Language Processing Project *June 2019 - November 2019*
Advisor: Jacob Furst   Institution: DePaul University