Amy Rechkemmer

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RESEARCH INTERESTS

Human Computation and Crowdsourcing, Human-Computer Interaction, Human-AI Interaction, Social Computing

EDUCATION

Purdue University, West Lafayette, IN — Aug. 2018 - present
Ph.D. in Computer Science
Advisor: Ming Yin
Committee: Chris Clifton, Dan Goldwasser, Tianyi Zhang

University of Michigan, Ann Arbor, MI — Sep. 2014 - Apr. 2018
Bachelor of Science in Engineering, Computer Science and Engineering
Minor: Writing
Magna Cum Laude

HONORS AND AWARDS

Special Recognition for Outstanding Review, CHI	2024
HCOMP/CI Student Travel Scholarship	2023
CSCW Doctoral Consortium Funding	2023
Best Paper Award, CHI	2022
Selected for MIDAS Future Leaders Summit, University of Michigan	2022
Special Recognition for Outstanding Review, CSCW	2022
AI Journal Fellowship for HCOMP Doctoral Consortium	2021
Summer Research Grant, Purdue University	2021
Best Paper Award, HCOMP	2020
Ross Fellowship, Purdue University	2018
Finalist for Best Paper in DEED Award, ASEE	2017

PUBLICATIONS

Conference and Journal Proceedings

Alex C. Williams, Min Bai, Jonathan Buck, Tristan McKinney, **Amy Rechkemmer**, Koushik Kalyanaraman, Matthew Lease, Patrick Haffner, Xiong Zhou, Kumar Chellapilla, Li Erran Li. Snapper: Accelerating Bounding Box Annotation in Object Detection Tasks with Find-and-Snap Tooling. In *Proc. of the 29th ACM Conference on Intelligent User Interfaces (IUI)*, Greenville, SC, March 2024. (Forthcoming)

Amy Rechkemmer, Alex C. Williams, Matthew Lease, Li Erran Li. Characterizing Time Spent in Video Object Tracking Annotation Tasks: A Study of Task Complexity in Vehicle Tracking. In *Proc. of the 11th AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Delft, Netherlands, November 2023.

Amy Rechkemmer, Ming Yin. Understanding the Microtask Crowdsourcing Experience for Workers with Disabilities: A Comparative View. In *Proc. of the ACM on Human-Computer Interaction: Computer-Supported Cooperative Work and Social Computing (CSCW)*, Taipei, Taiwan, November 2022.

Amy Rechkemmer, Ming Yin. When Confidence Meets Accuracy: Exploring the Effects of Multiple Performance Indicators on Trust in Machine Learning Models. In *Proc. of the 40th ACM Conference on Human Factors in Computing Systems (CHI)*, New Orleans, LA, April 30th - May 5th, 2022.
Best Paper Award

Amy Rechkemmer, Ming Yin. Exploring the Effects of Goal Setting When Training

for Complex Crowdsourcing Tasks. In *Proc. of the 30th International Joint Conference on Artificial Intelligence (IJCAI)*, Montreal, QC, August 2021. (Invited to Sister Conferences Track)

Eli Silk, **Amy Rechkemmer**, Shanna Daly, Kathryn Jablokow, Seda McKilligan. Problem Framing and Cognitive Style: Impacts on Design Ideation Perceptions. *Design Studies*, 74, 101015, May 2021.

Amy Rechkemmer, Ming Yin. Motivating Novice Crowd Workers through Goal Setting: An Investigation into the Effects on Complex Crowdsourcing Task Training. In *Proc. of the 8th AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Hilversum, Netherlands, October 2020.
Best Paper Award

Amy Rechkemmer, Steven Wilson, Rada Mihalcea. Small Town or Metropolis? Analyzing the Relationship between Population Size and Language. In *Proc. of the 12th Language Resources and Evaluation Conference (LREC)*, Marseille, France, May 2020.

Amy Rechkemmer, Maya Makhlouf, Jennifer Wenger, Eli Silk, Shanna Daly, Seda McKilligan, Kathryn Jablokow. Examining the Effect of a Paradigm-Relatedness Problem Framing Tool on Idea Generation. *2017 American Society of Engineering Education Annual Conference and Exposition (ASEE)*, Columbus, OH, June 2017.
Finalist for Best Paper in DEED Award

Eli Silk, Shanna Daly, Kathryn Jablokow, Seda McKilligan, **Amy Rechkemmer**, Jennifer Wenger. Using Paradigm-Relatedness to Measure Design Ideation Shifts. *2016 American Society of Engineering Education Annual Conference and Exposition (ASEE)*, New Orleans, LA, June 2016.

Posters

Amy Rechkemmer. Examining the Effect of a Paradigm-Relatedness Problem Framing Tool on Idea Generation. University of Michigan Engineering Education Research Poster Fair, March 2017.

Amy Rechkemmer, Jennifer Wenger. Paradigm-Relatedness and Concept Variety in Engineering Design. University of Michigan Undergraduate Research Opportunity Program Poster Fair, April 2015.

Doctoral Consortia

Amy Rechkemmer. Fostering Data Worker Inclusion and Well-Being: Identifying Barriers and Designing Interventions. *26th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, Minneapolis, MN, October 2023.

Amy Rechkemmer. Unlocking the Potential of the Crowd by Challenging its Assumptions. *9th AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Online, November 2021.

RESEARCH AND WORK EXPERIENCE

Graduate Research Assistant Aug. 2022 - present
Purdue University, *West Lafayette, IN*

Applied Scientist Intern May 2022 - Sep. 2022

Amazon, AWS AI, *Santa Clara, CA*

Graduate Teaching Assistant Aug. 2019 - May 2022
Purdue University, *West Lafayette, IN*

Undergraduate Research Assistant Sep. 2014 - Aug. 2018
University of Michigan, *Ann Arbor, MI*

Technology Associate Intern May 2017 - Aug. 2017
Ally Financial, *Detroit, MI*

TEACHING

Graduate Teaching Assistant, Purdue University

CS 490 – HCI (Human-Computer Interaction)	Spring 2021, Spring 2022
CS 242 (Introduction to Data Science)	Fall 2021
CS 251 (Data Structures and Algorithms)	Summer 2020, Fall 2020
CS 590 – HCC (Human-Centered Computing)	Spring 2020
CS 578 (Statistical Machine Learning)	Fall 2019

Undergraduate Instructional Aid, University of Michigan

EECS 497 (Major Design Projects)	Spring 2018

INVITED TALKS

When Confidence Meets Accuracy: Exploring the Effects of Multiple Performance Indicators on Trust in Machine Learning Models.

ACM Award Winning Research in HCI, Grace Hopper Celebration	Sep. 2022
Human-in-the-Loop Reading Group, Amazon, AWS AI	Apr. 2022

Expanding the Scope of Crowdsourcing through Worker-Centric Considerations.

MIDAS Future Leaders Summit, University of Michigan	Apr. 2022

LEADERSHIP AND SERVICE

Organizing Committee
AAAI HCOMP
- Technology Co-chair 2022

Program Committee
AAAI HCOMP : 2023

Conference Reviewer
ACM ISS : 2023
ACM VRST : 2023
NordiCHI : 2022
ACM UIST: 2022
ACM CSCW: 2022, 2023, 2024
ACM CHI: 2022, 2023, 2024
ASEE: 2017

Graduate Women in Science Program Leadership, Purdue University
Computer Science Representative May 2022 - Present

Computer Science Graduate Student Board, Purdue University

Vice President	Aug. 2020 - May 2021
Social Co-chair	Aug. 2019 - May 2020
Social Chair	Aug. 2018 - May 2019

Undergraduate Student Advisory Board, University of Michigan
Computer Science and Engineering Representative Sep. 2016 - Apr. 2018

Design Immersion Program, University of Michigan
Peer Mentor — Sep. 2016
Session Instructor — Sep. 2015