Amy Rechkemmer

Email: arechke@purdue.edu *Website*: https://rechkamy.github.io

RESEARCH INTERESTS	Human Computation and Crowdsourcing, Human-Computer Interaction, Interaction, Social Computing	Human-AI				
EDUCATION	Purdue University, West Lafayette, INAug. 20Ph.D. in Computer ScienceAdvisor: Ming Yin	18 - present				
	Committee: Chris Clifton, Dan Goldwasser, Tianyi Zhang					
	University of Michigan , Ann Arbor, MI Sep. 2014 Bachelor of Science in Engineering, Computer Science and Engineering Minor: Writing Magna Cum Laude	- Apr. 2018				
HONORS AND	Purdue Graduate Women in Science Program Travel Grant	2025				
AWARDS	Special Recognition for Outstanding Review, CHI	2025				
	Purdue Graduate Student Government Professional Grant	2024				
	Selected for Heidelberg Laureate Forum	2024				
	Special Recognition for Outstanding Review, CUI	2024				
	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 Ross Fellowship, Purdue University	$2020 \\ 2018$				
	Finalist for Best Paper in DEED Award, ASEE	2018 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 Chel- lapilla, Li Erran Li. Snapper: Accelerating Bounding Box Annotation in Object De- tection Tasks with Find-and-Snap Tooling. In <i>Proc. of the 29th ACM Conference on</i> <i>Intelligent User Interfaces (IUI)</i> , Greenville, SC, March 2024.					
	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 <i>Proc. of the 11th AAAI Conference on Human Computation and Crowdsourcing (HCOMP)</i> , Delft, Netherlands, November 2023.					
	Amy Rechkemmer , Ming Yin. Understanding the Microtask Crowdsourcing Experience for Workers with Disabilities: A Comparative View. In <i>Proc. of the ACM on Human-Computer Interaction: Computer-Supported Cooperative Work and Social Computing (CSCW)</i> , Taipei, Taiwan, November 2022.					
	Amy Rechkemmer , Ming Yin. When Confidence Meets Accuracy: E: Effects of Multiple Performance Indicators on Trust in Machine Learning <i>Proc. of the 40th ACM Conference on Human Factors in Computing Sys</i> New Orleans, LA, April 30th - May 5th, 2022. Best Paper Award	Models. In				

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
 Graduate Research Assistant
 Aug. 2018 - Present

 WORK EXPERIENCE
 Purdue University, West Lafayette, IN
 •

 • Designed and deployed large-scale online experimental studies on Amazon Mechanical Turk.

• Coordinated a team of qualitative coders to develop and iteratively refine salient

survey response themes.

• Findings from work presented at HCOMP 2020, IJCAI 2021, CHI 2022, and CSCW 2022.

Applied Scientist Intern

Amazon, AWS AI, Santa Clara, CA

- Designed and conducted an experimental study exploring controlled dimensions of task complexity on annotators' measured and perceived time spent.
- Analyzed and articulated quantitative and qualitative findings of user study for an assistive bounding box annotation tool.
- Contributed towards design and development of Snaptracker patent idea.
- Findings from work presented at HCOMP 2023 and IUI 2024.

Undergraduate Research Assistant

University of Michigan, Ann Arbor, MI

- Developed and refined coding manuals of paradigm-relatedness in conceptual ideas for multiple design problems.
- Conducted data collection sessions with high school students involving education about idea generation and paradigm-relatedness.
- Utilized R for data analysis and figure generation.
- Co-developed a usable tool to assist design practitioners with shifting their idea generation space.
- Findings from work presented at ASEE 2016, ASEE 2017, and in Design Studies 2021.

Technology Associate Intern

May 2017 - Aug. 2017

Ally Financial, Detroit, MI

• Developed a collection of integrated microservice applications and demonstrated utility in proof-of-concept presentation.

PATENTS Snaptracker: System and Method for Assistive, Multi-frame Annotation in Video Object Tracking, with Alex Williams, Patrick Haffner, Min Bai, Tristan McKinney, Jonathan Buck, Xiong Zhou, and Li Erran Li, US Patent Application Number 18/083,350

TEACHING		021, Spring 2022 l 2021, Fall 2024 Summer 2024 CS Spring 2020 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 Per- formance Indicators on Trust in Machine Learning ModelsACM Award Winning Research in HCI, Grace Hopper CelebrationSep. 2022Human-in-the-Loop Reading Group, Amazon, AWS AIApr. 2022		
	Expanding the Scope of Crowdsourcing through Worker-Centric Considerations MIDAS Future Leaders Summit, University of Michigan Apr. 2022		

May 2022 - Sep. 2022

Sep. 2014 - Aug. 2018

LEADERSHIP AND SERVICE

AAAI Conference on Human Computation and CrowdsCrowdCamp Co-chair	sourcing (HCOMP) 202
• Technology Co-chair	202
ACM Collective Intelligence Conference (CI)	
• CrowdCamp Co-chair	202
Program Committee	
AAAI Conference on Human Computation and Crowds	sourcing (HCOMP): 2023 - 202
Conference Reviewer	
ACM Conference on Human Factors in Computing Sys	
ACM Conference on Computer-Supported Cooperative	· · · · · · · · · · · · · · · · · · ·
ACM Symposium on Virtual Reality Software and Tech	
ACM Interactive, Mobile, Wearable and Ubiquitous Te	<u> </u>
ACM Interaction Design and Children Conference (IDC ACM Conference on Designing Interactive Systems (DI	
ACM Conversational User Interfaces Conference (CUI)	
ACM Symposium on Spatial User Interaction (SUI): 20	
ACM CHI Late-Breaking Work: 2024	
ACM Interactive Surfaces and Spaces Conference (ISS)	: 2023
ACM Symposium on User Interface Software and Tech	
ACM Nordic Conference on Human-Computer Interact	· · · · · · · · · · · · · · · · · · ·
American Society of Engineering Education Annual Co	onference (ASEE): 2017
Graduate Women in Science Program Leadersh	ip , Purdue University
Computer Science Representative	May 2022 - Preser
	rdue University
Computer Science Graduate Student Board, Pur	
Vice President Social Co-chair	Aug. 2020 - May 202
Computer Science Graduate Student Board , Pur Vice President Social Co-chair Social Chair	Aug. 2020 - May 202 Aug. 2019 - May 202
Vice President Social Co-chair	Aug. 2020 - May 202 Aug. 2019 - May 202 Aug. 2018 - May 201

Design Immersion Program, University of Michigan

Peer Mentor			Sep. 2016
Session Instructor			Sep. 2015