

Vinay Koshy

PERSONAL INFORMATION

ADDRESS: Department of Computer Science
University of Illinois at Urbana-Champaign
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RESEARCH INTERESTS

Human-Computer Interaction, Computational Social Science, Content Moderation, Bayesian Inference, NLP, Causal Inference

EDUCATION

2019 - University of Illinois, Urbana-Champaign
PhD in Computer Science (HCI)
Advisor: Karrie Karahalios
GPA: 3.9/4.0

2019 University of California, Berkeley
BA in Computer Science
GPA: 3.7/4.0

RESEARCH EXPERIENCE

2019 - Research Assistant, UIUC
Worked in the Social Spaces Group with Professor Karrie Karahalios. Current projects include: using BERT-based models to predict inter-moderator disagreements, developing mechanistic Bayesian models to predict community rule creation, and evaluating the effects of community moderation on content quality.

2018 Research Assistant, UC Berkeley
Worked on two separate projects with ICSI Researcher Eric Friedman, and Berkeley Professor Gireeja Ranade. Worked on a project mapping misinformation and news media sites on the web and analyzed the resulting network with Gireeja Ranade. Worked on a smaller project in computer vision, creating a tool to count tree rings given a photo with Eric Friedman.

PUBLICATIONS

- [C4] **Vinay Koshy***, Alex Atcheson*, Karrie Karahalios. [On Moderation and Norm Preservation in Reddit Communities] (*In Submission*)
- [C3] **Vinay Koshy**, Tanvi Bajpai, Eshwar Chandrasekharan, Hari Sundaram, Karrie Karahalios. Measuring User-Moderator Alignment on r/ChangeMyView. CSCW 2023
- [C2] Ali Zaidi, Rui Yang, **Vinay Koshy**, Camille Cobb, Indranil Gupta, Karrie Karahalios. 'A User-Centric Evaluation of Smart Home Resolution Approaches for Conflicts Between Routines. IMWUT 2023.
- [C1] **Vinay Koshy**, Joon Sung Park, Ti-Chung Cheng, Karrie Karahalios. 'We Just Use What They Give Us': Understanding Passenger User Perspectives in Smart Homes. CHI 2021. **Best Paper Honorable Mention**

AWARDS AND HONORS

- 2021 | UIUC Graduate College Travel Award
\$350, 1 of 5 Awardees in the CS Department
- 2021 | Best Paper Honorable Mention ACM CHI
Top 5% of submissions

TEACHING EXPERIENCE

- 2021 | Social Spaces on the Internet, TA, UIUC CS Department
Under Karrie Karahalios.
- 2019 | Algorithms, Head TA, UC Berkeley EECS Department
Under Prasad Raghavendra and Luca Trevisan.
- 2018 | Algorithms, Head TA, UC Berkeley EECS Department
Under Alessandro Chiesa and Satish Rao.
- 2018 | Algorithms, TA, UC Berkeley EECS Department
Under Umesh Vazirani and Alessandro Chiesa
- 2017 | Discrete Mathematics TA, UC Berkeley EECS Department
Under Allen Tang, Hongling Lu, and Vrettos Moulos.

INDUSTRY EXPERIENCE

- 2019 | Infrastructure Software Engineering Intern, Salesforce
Working on the Service Cloud Performance Engineering Team, I developed a Java framework for monitoring the performance of Amazon EC2 instances and firing alerts using Apache Kafka. I implemented several monitors myself, including monitors for gathering CPU, mem, and I/O stats, and for running JMeter workloads. I also performed empirical analysis to establish baselines for performance.
- 2018 | Infrastructure Software Engineering Intern, Salesforce
Worked on the APP SCALE team to develop a Qpid agent in Java. This agent was used to increase the up time and decrease the mean time to recovery of Salesforce's message queue. The Qpid Agent communicated with the message queue via REST API.

INVITED TALKS AND PANELS

- 2022 | CS498: Antisocial Computing (Champaign, IL)

SERVICE

- 2023 | CHI Reviewer
- 2022 | CSCW, CHI Reviewer
- 2017 | CSM Mentor
Tutored a group of 7 students in discrete math and probability theory once a week.

SKILLS AND LANGUAGES

PROFICIENT WITH: Python, React, Javascript, HTML, CSS, Numpy, Git

FAMILIAR WITH: MongoDB, SQL, Pytorch, PyMC3, NumPyro, Java, C, Kafka