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. Projects include: using BERT-based models to predict inter-moderator disagreements, developing mechanistic Bayesian models of community norm strength, and conducting causal inference to assess the affects of Youtube creator likes on comment participation.

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 **Best Paper**

[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 | **Best Paper ACM CSCW**
Top 1% of submissions

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

2023 | Rising Stars in Social Computing Seminar (Iowa City, IA)

2023 | CS567: Social Spaces on the Internet (Champaign, IL)

2022 | CS498: Antisocial Computing (Champaign, IL)

Service

2023 | CSCW, CHI Reviewer

2022 | CSCW, CHI Reviewer

2017 | CSM Mentor
Tutored a group of 7 students in discrete math and probaility 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