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

[C5] Frederick Choi, Charlotte Lambert, **Vinay Koshy,** Sowmya Pratipati, Tue Do, Eshwar Chandrasekharan. Creator Hearts: Investigating the Impact Positive Signals from YouTube Creators in Shaping Comment Section Behaviors. Arxiv.

[C4] **Vinay Koshy*,** Alex Atcheson*, Karrie Karahalios. Not What it Used to Be: Characterizing Content and User-base Changes in Newly Created Online Communities. CHI 2024. **Best Paper Honorable Mention**

[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

2024 | Best Paper Honorable Mention ACM CHI
Top 5% of submissions

2023 | 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

2024 | CS498: Computational Social Science (Champaign, IL)

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