

# Vinay Koshy

## PERSONAL INFORMATION

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ADDRESS: Department of Computer Science  
University of Illinois at Urbana-Champaign  
Siebel Center for Computer Science, Room 4103  
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## RESEARCH INTERESTS

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

## EDUCATION

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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: 3.8/4.0

## RESEARCH EXPERIENCE

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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, evaluating the prevalence of user disagreements with moderator decisions on Reddit, and modelling the relationship between subreddit size and moderation practices.

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

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- [1] **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

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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

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- 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.

## WORK EXPERIENCE

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- 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.

## SERVICE

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- 2017 | CSM Mentor  
Tutored a group of 7 students in discrete math and probability theory once a week.

## SKILLS AND LANGUAGES

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PROFICIENT WITH: Python, React, Javascript, HTML, CSS, Numpy, Git  
FAMILIAR WITH: MongoDB, SQL, Pytorch, PyMC3, NumPyro, Java, C, Kafka