

Hussam Habib

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Research Interests

Computational Social Science; User behavior; Algorithm Audits; Personalization.

Work Experience

New York University <i>Research Associate</i> , under Prof. Rachel Greenstadt	2024-Present
University of Iowa <i>Research Associate</i> , under Prof. Rishab Nithyanand	2019-2024
Lahore University of Management Sciences <i>Research Assistant</i> , under Prof. Fareed Zaffar	2018-2019

Education

Ph.D. Computer Science , University of Iowa <i>Advisor</i> : Rishab Nithyanand <i>Thesis</i> : How do social media platforms influence user behavior	2019-Present
B.S. Computer Science , National University of Computer & Emerging Sciences	2014-2018

Honors & Awards

Graduate College Post-Comprehensive Research Fellowship , University of Iowa	2022
Dare to Discover , University of Iowa	2022
Dean's Honor List , National University of Computer & Emerging Sciences	2018
	2017
Travel Grants , PETS'23	2023

Publications

- CSCW 2022** **Making a Radical Misogynist**
How online social engagement with the Manosphere influences traits of radicalization.
Hussam Habib, Rishab Nithyanand, Padmini Srinivasan
- ICWSM 2022** **Act or React**
Investigating Proactive Strategies for Online Community Moderation.
Hussam Habib, Maaz Bin Musa, Fareed Zaffar, Rishab Nithyanand
- ICWSM 2022** **Reactive Moderation**
Exploring the magnitude and effects of media influence on Reddit moderation
Hussam Habib, Rishab Nithyanand
- ICWSM 2023** **The Morbid Realities of Social Media:**
An Investigation into the Misinformation Shared by the Deceased Victims of COVID-19
Hussam Habib, Rishab Nithyanand
- Under Review** **Google Algorithmic Biases**
Algorithmic amplification of biases on Google Search
Hussam H, Ryan S, Brian E, Andrew H, Ashley P, Rishab N
- Under Review** **Uncovering the Interaction Equation**
Quantifying the Effect of User Interactions on Social Media Homepage Recommendations
Hussam H, Ryan S, Raven M-L, Brian E, Rishab N.
- Under Review** **Anatomy of YouTube Recommendations**
How User Preferences, Impulses, and Ideologies Shape Content Exposure
Hussam Habib, Osama Khalid, Rishab Nithyanand.
- ICA 2022** **Vaccination Attitudes:**
Relationships among vaccination attitudes, social media use, and activism.
Ryan S, Andrew H, Ashley P, Kathryn B, Raven M, Rishab N, Brian E, Timothy H, Hussam H, & John T

Open-Source Contributions

Warning Behavior Analysis Toolkit • [\[github\]](#)

A computational framework using social science theories to measure warning behaviors indicative of radicalization in online platforms.

Community health monitor • [\[github\]](#)

Active monitoring of subreddits to flag online communities—using interpretable machine learning—as they adopt and exhibit problematic behavior.

LLM-based YouTube User Agents • [\[github\]](#)

YouTube Sock Puppets powered by LLMs consuming YouTube videos and selecting videos replicating psychological rule-based system.

Characterizing Platform Behavior • [\[github\]](#)

A platform audit system designed to measure, replicate, and taxonomize platform behavior. Currently supporting Facebook, Twitter, Reddit, and YouTube.

Teaching

Machine Learning Workshop , Research Experiences for Undergraduates (REU)	Summer 2023
CS:2820 • Object-Oriented Software , University of Iowa, Teaching Assistant	Fall 2020
CS:2520 • Human-Computer Interaction , University of Iowa, Teaching Assistant	Spring 2020
CS:2230 • Data Structures , University of Iowa, Teaching Assistant	Fall 2019

Invited Talks

How online platforms shape user beliefs and behaviors. Washington University in St. Louis	Fall 2024
How social media platforms influence user behavior. Denison University	Fall 2024
Does Google serve different results to users with opposing opinions? University of Wisconsin–Madison	Fall 2024
How social media platforms influence user behavior. University of Illinois Urbana-Champaign	Fall 2023
Social media platforms and online behaviors. University of Iowa	Fall 2023
Investigating Proactive Strategies for Online Community Moderation. Lahore University of Management Sciences	Fall 2020

Service

Reviewer

AEJMC'23, ICWSM'24, CSCW'24, IEEE'24

Research Mentoring

Amol Bhagavathi , Undergraduate, University of Iowa	2024
Luke Aschenbrenner , Visiting REU, Benedictine College	2023
Tiziana Hernandez , Visiting REU, Stonehill College	
Nick Cardenas , Visiting REU, Grinnell College	2022
Jordan Pollard , Visiting REU, St. Ambrose University	