Julie Jiang

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I am interested in learning about **people**—how user preferences, social cues, and external contextual factors influence and drive user behavior—in online settings such as **social media** and **multiplayer games.** I adopt a variety of deep learning, graph-based learning, natural language processing, and statistical methods to analyze the dynamics of human behavior.

Education

Education	
University of Southern California (USC) PhD Candidate in Computer Science—GPA: 4.00/4.00	Los Angeles, CA 2019—2024
Research interests: machine learning & computational social science Advisor: Dr. Emilio Ferrara	(expected)
 PhD Qualifying Exam (Committee: Dr. Emilio Ferrara, Dr. Kristina Lerman, Dr. Xiang Ren, Dr. Salman Avestimehr, and Dr. Bistra Dilkina) 	Sep 2021
Tufts University	Medford, MA
BS in Computer Science and Mathematics—GPA 3.72/4.00 magna cum laude	2015—2019
Experience	
Snap Research, Research Intern	Virtual/Santa Monica, CA
 Incoming research intern in the Computational Social Science Team 	Summer 2022 (expected)
USC Information Sciences Institute (ISI), Research Assistant	Marina del Rey, CA
 DARPA INCAS-UPSCALE (PI: Dr. Emilio Ferrara) Universal population segmentation and characterization algorithms for online environments 	Aug 2021—Present
DARPA TAILOR-Bespoke (PI: Dr. Kristina Lerman)	Aug 2019—May 2021
Learning bespoke interventions for performance optimizations in heterogeneous users	
Snap Research, Research Intern	Virtual/Santa Monica, CA
 Advised by Dr. Francesco Barbieri in the Computational Social Science Tea Contextual impact (time, location, and weather) on expressed sentiment Snapchat stories 	-
Google, Software Engineering Intern	Mountain View, CA
Adwords API Team	Summer 2019
Tufts University, Research Assistant	Medford, MA
Advised by Dr. Li-Ping Liu and Dr. Soha Hassoun	2018—2019
Graph embedding models for biochemical molecular reaction prediction	

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Framingham, MA

Summer 2017

Bose Corporation, *Software Engineering Intern*

• Consumer electronics advanced development division

Publications * equal contribution

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2022 CSCW	Alex Bisberg*, Julie Jiang*, Yilei Zeng, Emily Chen, and Emilio Ferrara. The Gift That Keeps on Giving: Generosity is Contagious in Multiplayer Online Games. To appear in the Proceedings of the ACM on Human-Computer Interaction, CSCW (PACM HCI).		
2022 ICWSM	Julie Jiang, Nils Murrugarra-Llerena, Maarten W. Bos, Yozen Liu, Neil Shah, Leonardo Neves, Francesco Barbieri. Sunshine with a Chance of Smiles: Weather Impacts Expressed Sentiment on Social Media. To appear in the 16th International AAAI Conference on Web and Social Media.		
2022 JMIR	Emily Chen*, Julie Jiang*, Ho-Chun Herbert Chang, Goran Muric, and Emilio Ferrara. COVID-19 Infodemiology at Planetary Scale: Charting the Information and Misinformation Landscape to Characterize Misinfodemics Spread on Social Media. JMIR Infodemiology 2022; 2(1):e32378 Paper		
2021 JMIR	Julie Jiang, Xiang Ren, and Emilio Ferrara. Social Media Polarization and Echo Chambers in the Context of COVID-19: Case Study. <i>JMIRx Med</i> 2021; 2(3):e29570. Paper		
2021 FDG	Yuzi He, Christopher Tran, Julie Jiang, Keith Burghadt, Emilio Ferrara, Elena Zheleva, and Kristina Lerman. Heterogeneous Effects of Software Patches in a Multiplayer Online Battle Arena Game. The 16th International Conference on the Foundations of Digital Games. Paper		
2021 CSCW	Julie Jiang, Danaja Maldeniya, Kristina Lerman, and Emilio Ferrara. The Wide, the Deep, and the Maverick: Types of Players in Team-based Online Games. Proceedings of the ACM on Human-Computer Interaction, CSCW (PACM HCI). Paper Video		
2020 ICDMW	Julie Jiang, Kristina Lerman, and Emilio Ferrara. Individualized Context-Aware Embeddings for Online Games Predictions. 20th IEEE International Conference on Data Mining (ICDM '20), Workshop on High Dimensional Data Mining. Paper		
2020 HBET	Julie Jiang, Emily Chen, Shen Yan, Kristina Lerman, and Emilio Ferrara. Political Polarization Drives Online Conversations About COVID-19 in the United States. Human Behavior and Emerging Technologies 2(3), 200—211, 2020. Paper [cited over 90 times]		
2020	Julie Jiang, Li-Ping Liu, and Soha Hassoun. Learning Graph Representations of Biochemical Networks and Its Application to Enzymatic Link Prediction. <i>Bioinformatics</i> 37(6), 793—799, 2021. <u>Paper</u>		

Working Papers

Julie Jiang, Kristina Lerman, and Emilio Ferrara. Zero-Shot Meta-Learning for Small-Scale
Data from Human Subjects. arXiv preprint

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Presentations

Julie Jiang, Nils Murrugarra-Llerena, Maarten W. Bos, Yozen Liu, Neil Shah, Leonardo Neves, Francesco Barbieri. Sunshine with a Chance of Smiles: Weather Impacts Expressed Sentiment on Social Media. Accepted to the 2022 International Society for Research on Emotion (ISRE), oral presentation.
 Emily Chen*, Julie Jiang*, Fred Morstatter, Kristina Lerman, and Emilio Ferrara. Ageism in Traffic Policing. 6th International Conference on Computational Social Science (IC2S2), oral presentation. Extended Abstract
 Julie Jiang, Li-Ping Liu, and Soha Hassoun. Enzymatic Link Prediction for Biochemical Route Synthesis. 2020 MIT AI Powered Drug Discovery and Manufacturing (AIDM). Poster

Julie Jiang, Li-Ping Liu, and Soha Hassoun. **Predicting Reactions for Biochemical Networks Using Graph Embeddings.** 2019 Machine Learning in Computational Biology

(MLCB), co-located with NeurIPS '19. Poster

Teaching

2022

Tufts University

Teaching Fellow (Head TA), COMP11 Intro to Computer ScienceSpring 2018, Fall 2018, & Spring 2019Teaching Assistant, COMP105 Programming LanguagesSpring 2018Teaching Assistant, COMP15 Data StructuresSpring 2017 & Fall 2017

Awards

USC Graduate School nomination for the Google PhD Fellowship	2021
USC Viterbi nomination for the Microsoft PhD Fellowship	2021
USC ISI Distinguished Graduate Student Research Fellowship	2019—2020
USC Viterbi Travel Grant for Graduate Engineering Preview Day	2019
Tufts Tisch Summer Scholars Fellowship	2019
Tufts University Dean's List (7/8 semesters)	2015—2019

Professional Service

Reviewer	ICWSM	2022
	IJoC (International Journal of Communication)	2022
	WebSci	2020—2022
	TheWebConf	2020—2021
	TTO (Conference for Truth and Trust Online)	2021
	CompleNet (International Conference on Complex Networks)	2020

Media Coverage

Segregated communities of polarized Twitter users are shaping online conversations about COVID-19. *PsyPost.org*. Link

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