

Julie Jiang

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Education

University of Southern California (USC)

Los Angeles, CA

Ph.D. Computer Science—GPA: 4.00/4.00

2019—2024 (expected)

- Research interests: machine learning & computational social science
- Advisor: Dr. Emilio Ferrara

Tufts University

Medford, MA

B.S. Computer Science and Mathematics—GPA 3.72/4.00 *magna cum laude*

2015—2019

Experience

Snap Research

Virtual/Santa Monica, CA

Research Intern—Computational Social Science Team

May 2021—Present

- Contextual impact (time, location, weather) on expressed sentiment in Snapchat stories

USC Information Sciences Institute (ISI)

Marina del Rey, CA

Research Assistant

- **DARPA INCAS-UPSCALE** (PI: Dr. Emilio Ferrara)

Aug 2021—Present

Universal population segmentation and characterization algorithms for online environments

- **DARPA TAILOR-Bespoke** (PI: Dr. Kristina Lerman)

Aug 2019—May 2021

Learning bespoke interventions for performance optimizations in heterogeneous users

Google

Mountain View, CA

Software Engineering Intern—Adwords API Team

Summer 2019

Tufts University CS Department

Medford, MA

Research Assistant (Dr. Li-Ping Liu and Dr. Soha Hassoun)

2018—2019

- Graph embedding models for biochemical molecular reaction prediction

Bose Corporation

Framingham, MA

Software Engineering Intern

Summer 2017

Teaching

Tufts University

Medford, MA

Teaching Fellow (Head TA)

COMP11 Intro to Computer Science

Spring 2018, Fall 2018, & Spring 2019

Teaching Assistant

COMP105 Programming Languages

Spring 2018

COMP15 Data Structures

Spring 2017 & Fall 2017

Awards

USC ISI Distinguished Graduate Student Research Fellowship

2019—2020

USC Viterbi Travel Grant for Graduate Engineering Preview Day

2019

Tufts Tisch Summer Scholars Fellowship

2018

Publications

- 2021 [Julie Jiang](#), Xiang Ren, and Emilio Ferrara. **Social Media Polarization and Echo Chambers in the Context of COVID-19: Case Study.** *JMIRx Med* 2021; 2(3): e29570.
- 2021 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.** In the *16th International Conference on the Foundation of Digital Games (FDG '21)*.
- 2021 [Julie Jiang](#), Danaja Maldeniya, Kristina Lerman, and Emilio Ferrara. **The Wide, the Deep, and the Maverick: Types of Players in Team-based Online Games.** In the *24th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '21)*.
- 2020 [Julie Jiang](#), Kristina Lerman, and Emilio Ferrara. **Individualized Context-Aware Embeddings for Online Games Predictions.** In the *20th IEEE International Conference on Data Mining (ICDM '20) Workshop on High Dimensional Data Mining*.
- 2020 [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. (Media coverage: [PsyPost.org](#)) [**cited over 56 times*]
- 2020 [Julie Jiang](#), Li-Ping Liu, and Soha Hassoun. **Learning Graph Representations of Biochemical Networks and Its Application to Enzymatic Link Prediction.** *Bioinformatics* 37(6), 793—799, 2021.

Presentations * equal contribution

- 2020 Emily Chen*, [Julie Jiang](#)*, Fred Morstatter, Kristina Lerman, and Emilio Ferrara. **Ageism in Traffic Policing.** *IC2S2 '20* (Oral). [Extended Abstract](#)
- 2020 [Julie Jiang](#), Li-Ping Liu, and Soha Hassoun. **Enzymatic Link Prediction for Biochemical Route Synthesis.** *MIT AI Powered Drug Discovery and Manufacturing (AIDM '20)*. [Poster](#)
- 2020 [Julie Jiang](#), Li-Ping Liu, and Soha Hassoun. **Predicting Reactions for Biochemical Networks Using Graph Embeddings.** *Machine Learning in Computational Biology (MLCB '19)*. [Poster](#)

Service

Reviewer	ICWSM	2022
	TheWebConf, WebSci, TTO (Conference for Truth and Trust Online)	2021
	TheWebConf, WebSci, CompleNet (International Conference on Complex Networks)	2020