

Julie Jiang

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Education

University of Southern California (USC)

Ph.D. Computer Science - GPA: 4.00

Research interests: machine learning, computational social science

Advisor: Dr. Emilio Ferrara

Los Angeles, CA
2019 – 2024 (expected)

Tufts University

B.S. Computer Science and Mathematics - GPA 3.72 *magna cum laude*

Medford, MA
2015 – 2019

Experience

Snap Research

Research Intern – Computational Social Science Team (*Upcoming*)

Virtual
Summer 2021

USC Information Sciences Institute (ISI)

Research Assistant – Dr. Emilio Ferrara and Dr. Kristina Lerman

- DARPA TAILOR/Bespoke: Learning personalized interventions for performance optimizations for heterogeneous users

Marina del Rey, CA
2019 – Present

Google

Software Engineering Intern

- Implemented several new APIs and features for Display & Visual 360 in Search Ads

Mountain View, CA
Summer 2019

Tufts University CS Department

Research Assistant – Dr. Li-Ping Liu and Dr. Soha Hassoun

- Developed graph embedding models for biochemical molecular reaction prediction

Medford, MA
2018 – 2019

Bose Corporation

Software Engineering Intern

- Designed recurrent neural networks to perform sound source separation on audio signals

Framingham, MA
Summer 2017

Teaching

Tufts University

Teaching Fellow (Head Teaching Assistant)

COMP11 Intro to Computer Science (Spring 2018, Fall 2018, and Spring 2019)

- Led 30+ undergraduate TAs in classes of 200+ students; led weekly 1.5hr labs of 40+ students
- Helped instructors develop, design, and overhaul course content in Python and C++

Medford, MA
2018 – 2019

Teaching Assistant

COMP105 Programming Languages (Spring 2018)

COMP15 Data Structures (Spring 2017 and Fall 2017)

2017 – 2018

Research

Julie Jiang, Xiang Ren, and Emilio Ferrara. 2021. **Social media polarization and echo chambers: A case study of COVID-19.** *JMIR Preprints*. 12/04/2021:29570. [arXiv](#)

Yuzi He, Christopher Tran, Julie Jiang, Keith Burghardt, Emilio Ferrara, Elena Zheleva, and Kristina Lerman. 2021. **Heterogeneous Effects of Software Patches in a Multiplayer Online Battle Arena Game.** To appear in *FDG '21*. ACM.

Julie Jiang, Danaja Maldeniya, Kristina Lerman, and Emilio Ferrara. 2021. **The Wide, the Deep, and the Maverick: Types of Players in Team-based Online Games.** To appear In *CSCW '21*. ACM. [Pre-print](#)

Julie Jiang, Kristina Lerman, and Emilio Ferrara. 2020. **Individualized Context-Aware Embeddings for Online Games Predictions.** In *ICDMW '20*. IEEE. [Paper](#) [arXiv](#)

Julie Jiang, Emily Chen, Shen Yan, Kristina Lerman, and Emilio Ferrara. 2020. **Political Polarization Drives Online Conversations About COVID-19 in the United States.** *Human Behavior and Emerging Technologies* 2(3), 200 – 211. [Paper](#) (Press coverage: [PsyPost.org](#))

Julie Jiang, Li-Ping Liu, and Soha Hassoun. 2020. **Learning Graph Representations of Biochemical Networks and Its Application to Enzymatic Link Prediction.** *Bioinformatics*. [Paper](#)

Presentations

* indicates equal contribution

Emily Chen*, Julie Jiang*, Fred Morstatter, Kristina Lerman, and Emilio Ferrara. 2020. **Ageism in Traffic Policing.** Oral presentation at *IC2S2 '20*.

Julie Jiang, Li-Ping Liu, and Soha Hassoun. 2020. **Enzymatic Link Prediction for Biochemical Route Synthesis.** Poster presentation at *MIT AI Powered Drug Discovery and Manufacturing (AIDM '20)*.

Julie Jiang, Li-Ping Liu, and Soha Hassoun. 2019. **Predicting Reactions for Biochemical Networks Using Graph Embeddings.** Poster Presentation at *Machine Learning in Computational Biology (MLCB '19)*

Service Contributions

Subreviewer: CompleNet '20, WWW '20, and WWW '21

PC member: WebSci '20 and WebSci '21

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