

# Julie Jiang

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## EDUCATION

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### University of Southern California (USC)

*Ph.D. Computer Science* — GPA: 4.00

Research interests: machine learning and 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

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### Snap Research

*Research Intern — Computational Social Science Team*

Virtual  
05/2021—Present

### USC Information Sciences Institute (ISI)

*Research Assistant*

- DARPA INCAS-UPSCALE (Dr. Emilio Ferrara)  
Universal population segmentation and characterization algorithms for Online environments
- DARPA TAILOR-Bespoke (Dr. Kristina Lerman and Dr. Emilio Ferrara)  
Learning bespoke interventions for performance optimizations in heterogeneous users

Marina del Rey, CA

08/2021—Present

08/2019—05/2021

### Google

*Software Engineering Intern — Adwords API Team*

Mountain View, CA  
Summer 2019

### Tufts University CS Department

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

Graph embedding models for biochemical molecular reaction prediction

Medford, MA  
2018—2019

### Bose Corporation

*Software Engineering Intern*

Framingham, MA  
Summer 2017

## TEACHING

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### Tufts University

*Teaching Fellow* (Head Teaching Assistant)

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

*Teaching Assistant*

- COMP105 Programming Languages (Spring 2018)
- COMP15 Data Structures (Spring 2017 and Fall 2017)

*\*indicates equal contribution*

Medford, MA  
2018—2019

2017—2018

## RESEARCH

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- 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. [Paper](#)
- 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)*. [Paper](#)
- 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*. [Paper](#) [arXiv](#)
- 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. [Paper](#) (Press coverage: [PsyPost.org](#))
- 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. [Paper](#)

## PRESENTATIONS

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- 2020 Emily Chen\*, [Julie Jiang](#)\*, Fred Morstatter, Kristina Lerman, and Emilio Ferrara.  
**Ageism in Traffic Policing.**  
Oral presentation at *IC2S2 '20*. [Extended Abstract](#)
- 2020 [Julie Jiang](#), Li-Ping Liu, and Soha Hassoun.  
**Enzymatic Link Prediction for Biochemical Route Synthesis.**  
Poster presentation at *MIT AI Powered Drug Discovery and Manufacturing (AIDM '20)*. [Poster](#)
- 2019 [Julie Jiang](#), Li-Ping Liu, and Soha Hassoun.  
**Predicting Reactions for Biochemical Networks Using Graph Embeddings.**  
Poster Presentation at *Machine Learning in Computational Biology (MLCB '19)*. [Poster](#)

## SERVICE CONTRIBUTIONS

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*Reviewer:* WWW 2021, WebSci 2021, TTO 2021, WWW 2020, WebSci 2020, CompleNet 2020

## AWARDS

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2019—2020	USC ISI Distinguished Graduate Student Research Fellowship
2019	USC Viterbi Travel Grant for Graduate Engineering Preview Day
2018	Tufts Tisch Summer Scholars Fellowship