## Shan Jiang | Curriculum Vitae

660-674 (#86), Interdisciplinary Science and Engineering Complex, 805 Columbus Ave, Boston, MA 02120

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Education \_

Northeastern University

Boston, MA

Ph.D. in Computer Science

Sep 2016 - 2021 (Expected)

· Advisor: Christo Wilson

Beijing University of Posts and Telecommunications

Beijing, China

B.B.A. in Management Information Systems

Sep 2012 - Jul 2016

• Rank: 1/46 GPA: 92.5/100

Experience \_\_

Google

New York, NY Jun 2019 - Aug 2019

Software Engineer Intern @ Fact Check Team, Google AI

- Project: ClaimReview markup (e.g., claim, claimant and verdict) extraction from fact-check articles.
- Hosts: Simon Baumgartner, Abe Ittycheriah and Cong Yu.
- · Explored several task formulation possibilities, e.g., language generation under encoder-decoder frameworks, and eventually formulated the task as a sequence tagging problem and conducted several experiments by modifying and fine-tuning BERT models.
- Productionized codebase with test files and technical documentation.
- Prepared a paper with additional data exploration and model comparison to be submitted to WWW'20.

**Dataminr** New York, NY

Research Intern @ AI and Data Science Team

Feb 2019 - Apr 2019

- Project: Crisis sub-event (e.g., burning road after a wildfire) detection on social media for emergency management.
- Hosts: William Groves, Sam Anzaroot and Alejandro Jaimes.
- · Built a pipeline model that first scans the Twitter firehose and parses Tweets to dependency trees, then traverses to extract connected nounverb pairs (e.g., home-burn, house-destroy), and finally clusters similar pairs as sub-events.
- Case-studied California wildfires to understand the temporal cascading (e.g., fire->smoke->pollution) of sub-event networks.
- Published a paper at the AI for social good workshop, i.e., AISG'19@ICML.

Northeastern University

Boston, MA Sep 2016 - Present

- Research Assistant @ Khoury College of Computer Sciences
- · Research areas: computational journalism, computational social science, algorithm auditing, information quality.
- Collaborators: Christo Wilson, Alan Mislove, Ronald E Robertson, Kenneth Joseph, etc.
- Collected and analyzed TB-sized data under Spark/Hadoop frameworks and applied statistical and causal models for hypothesis testing.
- Project: Bias in content moderation Collected a dataset of moderated YouTube comments with their auto-labeled partisan bias and used propensity score models to estimate causal effects. Natural experiments showed that the claim of biased content moderation is yet a misperception from correlation to causation. Published a paper at ICWSM'19 and won an outstanding analysis paper (1/238) award.
- Project: Effects of "fake news" and fact-checking Collected 5K+ fact-checks from Snopes and PolitiFact and 2M+ comments from Facebook, Twitter and YouTube, and then analyzed linguistic differences in user comments between truthful/fake news and before/after fact-checks. Also leveraged empirical observations to build predictive models on misinformation detection. Published a paper at CSCW'18.
- · Project: Audience bias in Google search Recruited 200+ participants to install browser extensions that collect search data from their computers and estimated audience bias of a website based on its Twitter sharers. Built a visualization system at polarshare.shanjiang.me and published a paper at CSCW'18 that won an honorable mention (30/1,106) award for best papers.
- · Project: Ridesharing competition and accessibility Intercepted Uber and Lyft's mobile traffic using man-in-the-middle proxy and built structured requests for data collection, and then analyzed 10TB+ data to understand spatiotemporal patterns and inequality of accessibility. Collaborated with SFCTA on a visualization system at tncstoday.sfcta.org and published a paper at WWW'18.

## **National University of Singapore**

Singapore

Research Assistant @ School of Computing

• Project: Economic modeling of Bitcoin mining under risk aversion.

Collaborator: Richard TB Ma.

## Beijing University of Posts and Telecommunications

Oct 2013 - Dec 2015

Dec 2015 - May 2016

Research Assistant @ State Key Lab of Networking and Switching Technology

- Project: Game-theoretic modeling of overlay networks and traffic engineering.
- Collaborators: Jingyu Wang and Jun Gong.
- Published papers at computer network and system conferences, e.g., GlobeCom'15, LCN'15, ICPADS'14.

Skills \_

Languages **Platforms** 

Python, Java, Scala, C/C++, R, Matlab, SQL, HTML/CSS, JavaScript, Bash

Linux, Spark, Hadoop, Git, TensorFlow, PyTorch

September 5, 2019 Shan Jiang

Beijing, China

National Scholarship First-Class Scholarship ×2	for top 1% students at Beijing University of Posts and Telecommunications for top 2% students at Beijing University of Posts and Telecommunications	2014 2013, 2015
Service		
Program Committee	ICWSM	2020
	ASONAM (Multidisciplinary Track)	2019
Reviewer	CSCW, ICWSM	2020
	CSCW, ICWSM, CHI	2019
	CSCW, WWW	2018

September 5, 2019 Shan Jiang