Shan Jiang | Curriculum Vitae

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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

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Experience __

Google

New York, NY Jun 2019 - Aug 2019

Software Engineer Intern @ Fact Check Team, Google Al

- 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

Research Assistant @ Khoury College of Computer Sciences

Sep 2016 - Present

- · 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

Beijing, China 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

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Outstanding Analysis Paper	for the top analysis paper at ICWSM'19 (1/238)	2019
Honorable Mention	for top papers at CSCW'18 (30/1,106)	2018
Dean's Fellowship	for Ph.D. students at Northeastern University	2016
Outstanding Undergraduate	for top undergraduate students in the city of Beijing	2016
National Scholarship	for top 1% students at Beijing University of Posts and Telecommunications	2014
First-Class Scholarship $ imes$ 2	for top 2% students at Beijing University of Posts and Telecommunications	2013, 2015
Service		
Program Committee	ASONAM (Multidisciplinary Track)	2019
Reviewer	CSCW, ICWSM	2020
	CSCW, ICWSM, CHI	2019
	CSCW, WWW	2018

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