

Shan Jiang | Curriculum Vitae

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

☎ (+1) 781-502-8799 | ✉ sjiang@ccs.neu.edu | 🏠 shanjiang.me | 🖨️ printfoo | 🌐 [shan-jiang](https://shan-jiang.github.io)

Education

Northeastern University

Ph.D. in Computer Science

- Advisor: Christo Wilson

Boston, MA

Sep 2016 - 2021 (Expected)

Beijing University of Posts and Telecommunications

B.B.A. in Management Information Systems

- Rank: 1/46 GPA: 92.5/100

Beijing, China

Sep 2012 - Jul 2016

Experience

Facebook

Software Engineer Intern (Incoming) @ Content Integrity (Dangerous Content) Team

- Project: Multimodal learning for dangerous content detection.

Seattle, WA

Jun 2020 - Sep 2020

Google

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** 5K+ lines of codebase with test files and technical documentation.
- Published a paper with additional data exploration and model comparison at [WWW'20](#).

New York, NY

Jun 2019 - Aug 2019

Dataminr

Research Intern @ AI and Data Science Team

- 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 noun-verb 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](#).

New York, NY

Feb 2019 - Apr 2019

Northeastern University

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, Miriam Metzger (UC Santa Barbara), Kenneth Joseph (U Buffalo), etc.
- Collected and analyzed TB-sized social media and search engine data under the Spark/Hadoop framework.
- Applied statistical (e.g., regression) and causal (e.g., propensity score matching) models for hypothesis testing.
- Leveraged empirical observations to build natural language processing and machine learning pipelines to identify misinformation and linguistic bias in human-generated content (e.g., news, comments), particularly under algorithmic curation (e.g., ranking, personalization).
- Published **award-winning** papers at top web (e.g., [WWW'18-19](#), [ICWSM'19](#)), HCI (e.g., [CSCW'18](#)) and AI (e.g., [AAAI'20](#), [FAT*19](#)) conferences.

Boston, MA

Sep 2016 - Present

National University of Singapore

Research Assistant @ School of Computing

- Project: Economic modeling of Bitcoin mining under risk aversion assumptions.
- Collaborator: Richard TB Ma.

Singapore

Dec 2015 - May 2016

Beijing University of Posts and Telecommunications

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](#).

Beijing, China

Oct 2013 - Dec 2015

Skills

Programming Languages

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

Tools & Platforms

Spark, Hadoop/HDFS, TensorFlow/Keras, PyTorch, Git, Linux

Deep Learning & NLP

Transformers/BERT, Seq2Seq, RNN/LSTM, Attention, Rationalization, Interpretability, Explainability

Statistics

Hypothesis Testing, Regression Analysis, Causal Inference

Publications

Modeling and Measuring Expressed (Dis)belief in (Mis)information

Shan Jiang, Miriam Metzger, Andrew Flanagin and Christo Wilson

ICWSM'20

acceptance rate: 17%

Factoring Fact-Checks: Structured Information Extraction from Fact-Checking Articles

Shan Jiang, Simon Baumgartner, Abe Ittycheriah and Cong Yu

WWW'20

acceptance rate: 19%

Reasoning about Political Bias in Content Moderation

Shan Jiang, Ronald E Robertson and Christo Wilson

AAAI'20

invited paper: 100%

Bias Misperceived: The Role of Partisanship and Misinformation in YouTube Comment Moderation

Shan Jiang, Ronald E Robertson and Christo Wilson

ICWSM'19

outstanding analysis paper: 0.4% | acceptance rate: 21%

Crisis Sub-Events on Social Media: A Case Study of Wildfires

Shan Jiang, William Groves, Sam Anzaroot and Alejandro Jaimes

AISG'19@ICML

oral presentation: 18%

Auditing Autocomplete: Suggestion Networks and Recursive Algorithm Interrogation

Ronald E Robertson, Shan Jiang, David Lazer and Christo Wilson

WebSci'19

acceptance rate: 24%

Auditing the Partisanship of Google Search Snippets

Desheng Hu, Shan Jiang, Ronald E Robertson and Christo Wilson

WWW'19

acceptance rate: 18%

Who's the Guinea Pig? Investigating Online A/B/n Tests in-the-Wild

Shan Jiang, John Martin and Christo Wilson

FAT*'19

acceptance rate: 24%

Linguistic Signals under Misinformation and Fact-Checking: Evidence from User Comments on Social Media

Shan Jiang and Christo Wilson

CSCW'18

acceptance rate: 26%

Auditing Partisan Audience Bias within Google Search

Ronald E Robertson, Shan Jiang, Kenneth Joseph, Lisa Friedland, David Lazer and Christo Wilson

CSCW'18

honorable mention: 2.7% | acceptance rate: 26%

On Ridesharing Competition and Accessibility: Evidence from Uber, Lyft, and Taxi

Shan Jiang, Le Chen, Alan Mislove and Christo Wilson

WWW'18

acceptance rate: 15%

Conflicts in Overlay Environments: Inefficient Equilibrium and Incentive Mechanism

Jianxin Liao, Jun Gong, Shan Jiang, Tonghong Li and Jingyu Wang

KSII-TIIS'16

impact factor: 0.61

Interactions of Overlays and Traffic Engineering: Equilibrium and Cooperation without Payment

Shan Jiang, Jun Gong, Jingyu Wang, Jianxin Liao and Tonghong Li

GlobeCom'15

acceptance rate: 35%

Competitive Equilibrium and Stable Coalition in Overlay Environments

Shan Jiang, Jianxin Liao, Jun Gong, Jingyu Wang and Tonghong Li

LCN'15

acceptance rate: 30%

Combination Feature for Image Retrieval in the Distributed Datacenter

Di Yang, Jianxin Liao, Qi Qi, Jingyu Wang, Haifeng Sun and Shan Jiang

ICPADS'14

acceptance rate: 30%

Honors and Awards

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 1st-year 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 ×2	for top 2% students at Beijing University of Posts and Telecommunications	2013, 2015

Service

Program Committee	ICWSM, WebSci	2020
	ASONAM (Multidisciplinary Track)	2019
Reviewer	CHI, CSCW, ICWSM, WebSci	2020
	CHI, CSCW, ICWSM	2019
	CSCW, WWW	2018