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 | In shan-jiang

Education __

Northeastern University Boston, MA

Ph.D. in Computer Science • Advisor: Christo Wilson

Sep 2016 - 2021 (Expected)

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 _____

Facebook Seattle, WA

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

Jun 2020 - Sep 2020

• Project: Multimodal learning for dangerous content detection.

Google New York, NY

Software Engineer Intern @ Fact Check Team, Google AI

Jun 2019 - Aug 2019

- 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.

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, 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.

National University of Singapore

Singapore

Research Assistant @ School of Computing

Dec 2015 - May 2016

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

Beijing University of Posts and Telecommunications Research Assistant @ State Key Lab of Networking and Switching Technology

Beijing, China

Oct 2013 - Dec 2015

- 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 _

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, Seg2Seg, RNN/LSTM, Attention, Rationalization, Interpretability, Explainability

Statistics Hypothesis Testing, Regression Analysis, Causal Inference

March 17, 2020 Shan Jiang

Publications _ Modeling and Measuring Expressed (Dis)belief in (Mis)information ICWSM'20 Shan Jiang, Miriam Metzger, Andrew Flanagin and Christo Wilson acceptance rate: 17% Factoring Fact-Checks: Structured Information Extraction from Fact-Checking Articles WWW'20 Shan Jiang, Simon Baumgartner, Abe Ittycheriah and Cong Yu acceptance rate: 19% Reasoning about Political Bias in Content Moderation AAAI'20 Shan Jiang, Ronald E Robertson and Christo Wilson invited paper: 100% Bias Misperceived: The Role of Partisanship and Misinformation in YouTube Comment Moderation ICWSM'19 Shan Jiang, Ronald E Robertson and Christo Wilson outstanding analysis paper: 0.4% | acceptance rate: 21% Crisis Sub-Events on Social Media: A Case Study of Wildfires AISG'19@ICML Shan Jiang, William Groves, Sam Anzaroot and Alejandro Jaimes oral presentation: 18% Auditing Autocomplete: Suggestion Networks and Recursive Algorithm Interrogation WebSci'19 Ronald E Robertson, Shan Jiang, David Lazer and Christo Wilson acceptance rate: 24% **Auditing the Partisanship of Google Search Snippets** WWW'19 Desheng Hu, Shan Jiang, Ronald E Robertson and Christo Wilson acceptance rate: 18% Who's the Guinea Pig? Investigating Online A/B/n Tests in-the-Wild FAT*'19 Shan Jiang, John Martin and Christo Wilson acceptance rate: 24% Linguistic Signals under Misinformation and Fact-Checking: Evidence from User Comments on Social Media CSCW'18 Shan Jiang and Christo Wilson acceptance rate: 26% Auditing Partisan Audience Bias within Google Search CSCW'18 Ronald E Robertson, Shan Jiang, Kenneth Joseph, Lisa Friedland, David Lazer and Christo Wilson honorable mention: 2.7% acceptance rate: 26% On Ridesharing Competition and Accessibility: Evidence from Uber, Lyft, and Taxi WWW'18 Shan Jiang, Le Chen, Alan Mislove and Christo Wilson acceptance rate:15% Conflicts in Overlay Environments: Inefficient Equilibrium and Incentive Mechanism KSII-TIIS'16 impact factor: 0.61 Jianxin Liao, Jun Gong, Shan Jiang, Tonghong Li and Jingyu Wang Interactions of Overlays and Traffic Engineering: Equilibrium and Cooperation without Payment GlobeCom'15 Shan Jiang, Jun Gong, Jingyu Wang, Jianxin Liao and Tonghong Li acceptance rate: 35% Competitive Equilibrium and Stable Coalition in Overlay Environments LCN'15 Shan Jiang, Jianxin Liao, Jun Gong, Jingyu Wang and Tonghong Li acceptance rate: 30% Combination Feature for Image Retrieval in the Distributed Datacenter ICPADS'14 Di Yang, Jianxin Liao, Qi Qi, Jingyu Wang, Haifeng Sun and Shan Jiang 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 $\times 2$	for top 2% students at Beijing University of Posts and Telecommunications	2013, 2015
Service		
Program Committee	ICWSM, WebSci	2020
og. a oo	ASONAM (Multidisciplinary Track)	2019
Reviewer	CHI, CSCW, ICWSM, WebSci	2020

2018

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CSCW, WWW