Shan Jiang | Curriculum Vitae

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Education __

Northeastern University Boston, MA

Ph.D. in Computer ScienceAdvisor: 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 LanguagesPython, Java, Scala, C/C++, R, SQL, HTML/CSS, JavaScript, Bash **Tools & Platforms**Spark, Hadoop/HDFS, TensorFlow/Keras, PyTorch, Git, Linux

Deep Learning Transformers (BERT, XLNet, RoBERTa), Encoder-Decoder (seq2seq), RNN/LSTM, Multimodality

Statistics Regression Analysis, Causal Inference

January 10, 2020 Shan Jiang

Publications _ 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 Jianxin Liao, Jun Gong, Shan Jiang, Tonghong Li and Jingyu Wang impact factor: 0.61 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% ICPADS'14

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

Combination Feature for Image Retrieval in the Distributed Datacenter

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 $ imes$ 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

January 10, 2020 Shan Jiang