Shan Jiang | Résumé

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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 | Rank: 1/46 GPA: 92.5/100 — *Sep 2012 - Jul 2016*

Experience

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.
- 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.
- Submitted a paper with additional data exploration and model comparison 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.
- 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.

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.
- 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 and HCI conferences, e.g., WWW'18-19, ICWSM'19, FAT*'19, CSCW'18.

National University of Singapore — Singapore
Research Assistant @ School of Computing — *Dec 2015 - May 2016*
- Project: Economic modeling of Bitcoin mining under risk aversion assumptions.

Beijing University of Posts and Telecommunications — Beijing, China
Research Assistant @ State Key Lab of Networking and Switching Technology — *Oct 2013 - Dec 2015*
- Project: Game-theoretic modeling of overlay networks and traffic engineering.
- Published papers at computer network and system conferences, e.g., GlobeCom'15, LCN'15, ICPADS'14.

Selected Publications

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%*

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%*

Skills

Languages Python, Java, Scala, C/C++, R, SQL, HTML/CSS, JavaScript, Bash
Tools Spark, Hadoop, TensorFlow, PyTorch, Linux, MatLab, Git