

Shangbin Feng

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Research Interests

Natural language processing, knowledge graphs, and social network analysis.

Education

University of Washington. Seattle, WA, USA 2022.9-present
Ph.D. in Computer Science and Engineering

Xi'an Jiaotong University, Xi'an, Shaanxi, China 2018.9-2022.7
B.E. in Computer Science and Technology

Publications (= indicates equal contribution)

2023

From Pretraining Data to Language Models to Downstream Tasks: Tracking the Trails of Political Biases Leading to Unfair NLP Models

Shangbin Feng, Chan Young Park, Yuhan Liu, and Yulia Tsvetkov.

In *Proceedings of ACL 2023*

KALM: Knowledge-Aware Integration of Local, Document, and Global Contexts for Long Document Understanding

Shangbin Feng, Zhaoxuan Tan, Wenqian Zhang, Zhenyu Lei, and Yulia Tsvetkov.

In *Proceedings of ACL 2023*

BIC: Twitter Bot Detection with Text-Graph Interaction and Semantic Consistency

Zhenyu Lei=, Herun Wan=, Wenqian Zhang, Shangbin Feng, Zilong Chen, Jundong Li, Qinghua Zheng, and Minnan Luo.

In *Proceedings of ACL 2023*

Detecting Spoilers in Movie Reviews with External Movie Knowledge and User Networks

Heng Wang, Wenqian Zhang, Yuyang Bai, Zhaoxuan Tan, Shangbin Feng, Qinghua Zheng, and Minnan Luo.

In *arxiv 2023*

BotMoE: Twitter Bot Detection with Community-Aware Mixtures of Modal-Specific Experts

Yuhan Liu, Zhaoxuan Tan, Heng Wang, Shangbin Feng, Qinghua Zheng, and Minnan Luo.

In *Proceedings of SIGIR 2023*

BotPercent: Estimating Twitter Bot Populations from Groups to Crowds

Zhaoxuan Tan=, Shangbin Feng=, Melanie Sclar, Herun Wan, Minnan Luo, Yejin Choi, and Yulia Tsvetkov.

In *arxiv 2023*

KRACL: Contrastive Learning with Graph Context Modeling for Sparse Knowledge Graph Completion

Zhaoxuan Tan, Zilong Chen, Shangbin Feng, Qingyue Zhang, Qinghua Zheng, Jundong Li, and Minnan Luo.
In *Proceedings of The Web Conference 2023*

2022

PAR: Political Actor Representation Learning with Social Context and Expert Knowledge

Shangbin Feng, Zhaoxuan Tan, Zilong Chen, Peisheng Yu, Ningnan Wang, Qinghua Zheng, Xiaojun Chang, and Minnan Luo.
In *Proceedings of EMNLP 2022*

Twibot-22: Towards Graph-Based Twitter Bot Detection.

Shangbin Feng, Zhaoxuan Tan, Herun Wan, Ningnan Wang, Zilong Chen, Binchi Zhang, Qinghua Zheng, Wenqian Zhang, Zhenyu Lei, Shujie Yang, Xinshun Feng, Qingyue Zhang, Hongrui Wang, Yuhao Liu, Yuyang Bai, Heng Wang, Zijian Cai, Yanbo Wang, Lijing Zheng, Zihan Ma, Jundong Li, and Minnan Luo.
In *Proceedings of NeurIPS 2022, Datasets and Benchmarks Track*

AHEAD: A Triple Attention Based Heterogeneous Graph Anomaly Detection Approach

Shujie Yang, Binchi Zhang, Shangbin Feng, Zhaoxuan Tan, Qinghua Zheng, Jun Zhou, and Minnan Luo.
In *arxiv 2022*

GraTo: Graph Neural Network Framework Tackling Over-Smoothing with Neural Architecture Search.

Xinshun Feng, Herun Wan, Shangbin Feng, Hongrui Wang, Qinghua Zheng, Jun Zhou, and Minnan Luo.
In *Proceedings of CIKM 2022*

Datavoidant: An AI System for Addressing Political Data Voids on Social Media.

Claudia Flores-Saviaga, Shangbin Feng, and Saiph Savage.
In *Proceedings of CSCW 2022*

KCD: Knowledge Walks and Textual Cues Enhanced Political Perspective Detection in News Media.

Wenqian Zhang, Shangbin Feng, Zilong Chen, Zhenyu Lei, Jundong Li, and Minnan Luo.
In *Proceedings of NAACL 2022* (oral presentation)

Heterogeneity-aware Twitter Bot Detection with Relational Graph Transformers.

Shangbin Feng, Zhaoxuan Tan, Rui Li, and Minnan Luo.
In *Proceedings of AAAI 2022*

2021

Knowledge Graph Augmented Political Perspective Detection in News Media.

Shangbin Feng, Zilong Chen, Wenqian Zhang, Qingyao Li, Qinghua Zheng, Xiaojun Chang, and Minnan Luo.
In *arxiv 2021*

PPSGCN: A Privacy-Preserving Subgraph Sampling Based Distributed GCN Training Method.

Binchi Zhang, Minnan Luo, Shangbin Feng, Ziqi Liu, Jun Zhou, and Qinghua Zheng.
In *arxiv* 2021

BotRGCN: Twitter Bot Detection with Relational Graph Convolutional Networks.

Shangbin Feng, Herun Wan, Ningnan Wang, and Minnan Luo.

In *Proceedings of ASONAM 2021, Short Paper*

Twibot-20: A Comprehensive Twitter Bot Detection Benchmark.

Shangbin Feng, Herun Wan, Ningnan Wang, Jundong Li, and Minnan Luo.

In *Proceedings of CIKM 2021, Resource Track*

SATAR: A Self-supervised Approach to Twitter Account Representation Learning and its Application in Bot Detection.

Shangbin Feng, Herun Wan, Ningnan Wang, Jundong Li, and Minnan Luo.

In *Proceedings of CIKM 2021, Applied Track*

Honors and Awards

Top Reviewer, <i>Learning on Graphs Conference</i> 2022	2022
Top Reviewer, <i>NeurIPS</i> 2022	2022
Excellent Undergraduate Dissertation, Xi'an Jiaotong University	2022
Excellent Graduate Student, Xi'an Jiaotong University	2022
People's Daily Online Scholarship, People's Daily Online	2021
SenseTime Scholarship, SenseTime	2021
Meritorious Winner Prize, Mathematical Contest in Modeling	2019
Merit Student, Xi'an Jiaotong University	2019, 2020, 2021

Service

Reviewer for <i>ACL</i>	2023
Reviewer for <i>ICCV</i>	2023
Reviewer for <i>ICML</i>	2022, 2023
Reviewer for <i>CVPR</i>	2023
Reviewer for <i>ICLR</i>	2023
Reviewer for <i>ICWSM</i>	2023
Reviewer for <i>ACL Rolling Review</i>	2022, 2023
Reviewer for <i>Learning on Graphs Conference</i>	2022
Reviewer for <i>NeurIPS, Datasets and Benchmarks Track</i>	2022, 2023
Reviewer for <i>ECCV</i>	2022
Reviewer for <i>NeurIPS</i>	2022, 2023
Reviewer for <i>CSCW</i>	2022
Reviewer for <i>Social Network Analysis and Mining</i>	2021, 2022
Founder and Director of <u>the LUD Lab</u> , Xi'an Jiaotong University	2021, 2022

Talks

From Pretraining Data to Language Models to Downstream Tasks: Tracking the Trails of Political Biases Leading to Unfair NLP Models

2023 NYU Disinformation Symposium. June, 2023.

KCD: Knowledge Walks and Textual Cues Enhanced Political Perspective Detection in News Media

Sensetime AI. August, 2022.