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

CooK: Empowering General-Purpose Language Models with Modular and Collaborative Knowledge Shangbin Feng, Weijia Shi, Yuyang Bai, Vidhisha Balachandran, Tianxing He, and Yulia Tsvetkov. In arxiv 2023

Can Language Models Solve Graph Problems in Natural Language?

Heng Wang=, Shangbin Feng=, Tianxing He, Zhaoxuan Tan, Xiaochuang Han, and Yulia Tsvetkov. In arxiv 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*

FactKB: Generalizable Factuality Evaluation using Language Models Enhanced with Factual Knowledge

Shangbin Feng, Vidhisha Balachandran, Yuyang Bai, and Yulia Tsvetkov. In arxiv 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, <u>Shangbin Feng</u>, 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, <u>Shangbin Feng</u>, 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 Fenge, Zhaoxuan Tane, Herun Wane, Ningnan Wange, Zilong Chene, Binchi Zhange, Qinghua Zheng, Wenqian Zhang, Zhenyu Lei, Shujie Yang, Xinshun Feng, Qingyue Zhang, Hongrui Wang, Yuhan 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 Al 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, <u>Shangbin Feng</u>, 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, Leaning on Graphs Conference 2022	2022
Top Reviewer, NeurIPS 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 ACL	2023
Reviewer for ICCV	2023
Reviewer for ICML	2022, 2023
Reviewer for CVPR	2023
Reviewer for ICLR	2023

Reviewer for ICWSM	2023
Reviewer for ACL Rolling Review	2022, 2023
Reviewer for Learning on Graphs Conference	2022
Reviewer for NeurIPS, Datasets and Benchmarks Track	2022, 2023
Reviewer for ECCV	2022
Reviewer for NeurIPS	2022, 2023
Reviewer for CSCW	2022
Reviewer for Social Network Analysis and Mining	2021, 2022
Founder and Director of the LUD Lab, 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 Al. August, 2022.