Shangbin Feng

Address: Pengkang Building 206, 28 Xianning W Rd, Xi'an, China

Email: bunsenfeng@gmail.com

Homepage: bunsenfeng.github.io

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Research Interests

Natural language processing, graph mining, social network analysis, social computing and data mining in general. Previous research experiences include Twitter bot detection, political perspective detection, heterogeneous graph neural networks, knowledge graph applications and misinformation on social media.

Education

Xi'an Jiaotong University, Xi'an, Shaanxi, China (member of the C9 league in China)   2018.6-present

B.S. in Computer Science and Technology

GPA: 94.32/100 (**Transcript**), 1st in class of 34

Thesis Advisor: Minnan Luo

Publications (* indicates equal contribution)

[1] **Shangbin Feng**, Zhaoxuan Tan, Rui Li, and Minnan Luo. 2021. "Heterogeneity-aware Twitter Bot Detection with Relational Graph Transformers." In *Thirty-sixth AAAI Conference on Artificial Intelligence (AAAI)*. (to appear) [15% acceptance rate]

[2] **Shangbin Feng**, Herun Wan, Ningnan Wang, Jundong Li, and Minnan Luo. 2021. "TwiBot-20: A Comprehensive Twitter Bot Detection Benchmark." In *Proceedings of the 30th ACM International Conference on Information & Knowledge Management (CIKM)*. [32.5% acceptance rate]

[3] **Shangbin Feng**, Herun Wan, Ningnan Wang, Jundong Li, and Minnan Luo. 2021. "SATAR: A Self-supervised Approach to Twitter Account Representation Learning and its Application in Bot Detection." In *Proceedings of the 30th ACM International Conference on Information & Knowledge Management (CIKM)*. [24% acceptance rate]

[4] **Shangbin Feng**, Herun Wan, Ningnan Wang, and Minnan Luo. 2021. "BotRGCN: Twitter Bot Detection with Relational Graph Convolutional Networks." In *2021 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*. (to appear) [22% acceptance rate]

[5] **Shangbin Feng***, Zilong Chen*, Wenqian Zhang*, Qingyao Li, Qinghua Zheng, Xiaojun Chang, and Minnan Luo. "Knowledge Graph Augmented Political Perspective Detection in News Media." *ArXiv Preprint arXiv:2108.03861 (2021)*.

[6] **Shangbin Feng**, Zhaoxuan Tan, Zilong Chen, Peisheng Yu, Qinghua Zheng, Xiaojun Chang, and Minnan Luo. "Legislator Representation Learning with Social Context and Expert Knowledge." *ArXiv Preprint arXiv:2108.03881 (2021)*.

[7] Binchi Zhang, Minnan Luo, **Shangbin Feng**, Ziqi Liu, Jun Zhou, and Qinghua Zheng. "PPSGCN: A Privacy-Preserving Subgraph Sampling Based Distributed GCN Training Method." *ArXiv Preprint arXiv:2110.12906 (2021)*.

[8] Wenqian Zhang*, **Shangbin Feng***, Zilong Chen*, Zhenyu Lei, Jundong Li, Minnan Luo. "KCD: Knowledge Walks and Textual Cues Enhanced Political Perspective Detection in News Media." *In Submission '22*

[9] Claudia Flores-Saviaga, **Shangbin Feng**, Saiph Savage. "Datavoidant: Addressing Political Data Voids on Social Media." *In Submission '22*

[10] Chengyou Jia, Minnan Luo, Xiaojun Chang, Zhuohang Dang, **Shangbin Feng**, Lina Yao, Qinghua Zheng. "TransPS: End-to-End Person Search with Transformers." *In Submission '22*

Honors and Awards

People's Daily Online Scholarship (30 undergraduate and graduate students selected all across China)	2022
SenseTime Scholarship (31 undergraduate students in AI selected all across China)	2021
Shuiyou Scholarship (top 10/1200), Xi'an Jiaotong University	2021
Top Project Runner Up, NUS Summer Workshop	2021
Dean's List, Xi'an Jiaotong University	2021
Outstanding (top 3/92), National Undergraduate Research Program	2021
First Place, Xi'an Jiaotong University English Reading Contest	2020
Dean's List, Xi'an Jiaotong University	2020
Meritorious Winner Prize (top 6%), Mathematical Contest in Modeling (MCM)	2019
Dean's List, Xi'an Jiaotong University	2019
Jiangsu Fenhu Innovation and Technology Scholarship (top 2/40), Xi'an Jiaotong University	2019
First Prize, National Mathematical Modeling Contest	2018
First Prize (top 36/659), Xi'an Jiaotong University Mathematical Modeling Contest	2018

Experience

Research Collaboration, virtual   2021.9-present

Data void detection on social media, building a collaborative sensemaking system to combat misinformation.

Advisor: Saiph Savage @ Northeastern University, the United States

Director of LUD, Xi'an Jiaotong University   2021.8-present

Lead the **LUD lab**, mentoring undergraduate research groups to work on knowledge-aware NLP, few-short learning on hetero-temporal graphs, knowledge graph representation learning and open-domain Q&A.

Advisor: Minnan Luo @ Xi'an Jiaotong University, China

Summer Workshop, National University of Singapore (virtual)   2021.5-2021.7

Attend lectures in AI analytics and IoT, lead a research project in bot detection.

Advisor: Lek Hsiang Hui @ National University of Singapore, Singapore

Research Assistant, Xi'an Jiaotong University   2021.5-2021.9

Mining heterogenous information networks, proposing novel heterogeneous GNN architectures.

One first-author conference paper at *ASONAM 2021*, one first-author conference publication at *AAAI 2022*.

Advisor: Minnan Luo @ Xi'an Jiaotong University, China

Research Collaboration, virtual   2021.3-2021.8

Knowledge-aware political perspective detection, proposing the novel task of entity stance prediction.

Two incoming first-author conference submissions at *NAACL 2022*.

Advisor: Xiaojun Chang @ Royal Melbourne Institute of Technology, Australia

National Undergraduate Research Program, Xi'an Jiaotong University   2020.7-2021.6

Generalizable and adaptable Twitter bot detection and Twitter bot detection benchmark construction.

Receive "Outstanding" (top 3/92) for our project, two first-author conference publications at *CIKM 2021*.

Advisor: Jundong Li @ University of Virginia, the United States

Service

Reviewer for *CSCW'22, ICML'22, NeurIPS'22, Social Network Analysis and Mining* 2021-2022

Lecturer, *Introduction to Undergraduate Research*, Xi'an Jiaotong University 2021

Skills

Programming Languages:

-Proficient: Python, C/C++, MATLAB

-Capable: Java, Bash, HTML/CSS, Javascript, SQL

Tools and Frameworks: Torch, Pytorch, LaTeX, Visual Studio, Pycharm, Vim, ssh, MobaXTerm, Git

Natural Languages: Mandarin (native), English (fluent, TOEFL:120/120), Spanish (beginner)