

Xovee Xu

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徐增
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Education

University of Electronic Science and Technology of China (UESTC), Chengdu, China
Ph.D. Candidate, Computer Science (expc.) 2025
M.S., Software Engineering 2021
B.S., Software Engineering 2018

Affiliations

Intelligent Computing and Data Mining Lab, UESTC, Chengdu, China 2018-
Center for Future Media, UESTC, Chengdu, China 2021-
Kash Institute of Electronics and Information Industry, Kashgar, China 2021-

Distinctions

Young Elite Scientists Sponsorship Program for Doctoral Students, CAST 2025
Outstanding Graduate of Sichuan Province, China 2025
Best Paper Candidate, IEEE ICME 2024 2024
Outstanding Master's Thesis, UESTC 2021

Area of Interests

Social network analysis & web mining
Multimodal & spatio-temporal data learning
Human-centered data mining & human-computer interaction

Academic Services

Conference Program Committee Member & Reviewer

ACM CIKM 2023, 2024, 2025
ACM KDD 2023, 2024, 2025
IEEE ICASSP 2024, 2025
IEEE ICME 2024, 2025
IJCNN 2025
WWW 2025
SIAM SDM 2024

Peer Review

20 Selected Venues	Times
ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)	×20
ACM International Conference on Information and Knowledge Management (CIKM)	×13
IEEE International Conference on Multimedia and Expo (ICME)	×10
Expert Systems With Applications	×9
IEEE Transactions on Knowledge and Data Engineering (TKDE)	×9
Applied Intelligence	×7
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)	×7
The ACM Web Conference (WWW)	×7
IEEE International Conference on Data Engineering (ICDE)	×6
ACM Transactions on Web	×5
IEEE Transactions on Neural Networks and Learning Systems (TNNLS)	×5
ACM International Conference on Multimedia	×4
IEEE Internet of Things Journal	×4
Conference on Neural Information Processing Systems (NeurIPS)	×3
IEEE Transactions on Big Data	×3
International Joint Conference on Neural Networks (IJCNN)	×3
SIAM International Conference on Data Mining (SDM)	×3
AAAI Conference on Artificial Intelligence	×2
Knowledge and Information Systems	×2
Knowledge-Based Systems	×2
	Above = 124
	Total = 169

Volunteer Activities

Artifact Badging Committee Member, The ACM Web Conference, Singapore	2024
Student Volunteer, ACM MM, Chengdu, China	2021
Student Volunteer, SIGIR, Online Conference	2021
Student Volunteer, ICTIR, Online Conference	2021

Professional Memberships

- ACM: Association for Computing Machinery
Student Member (2020)
- CCF: China Computer Federation
Student Member (2021)
- CIE: Chinese Institute of Electronics
Student Member (2025)
- IEEE: Institute of Electrical and Electronics Engineers
Graduate Student Member (2020)

Publications

<https://www.xoveexu.com/pub>
<https://www.xoveexu.com/stats>

† Equal Contribution, * Corresponding

Refereed Journal & Conference Articles

1. Zhangtao Cheng, Jienan Zhang, Xovee Xu, Wenxin Tai, Fan Zhou*, Goce Trajcevski, and Ting Zhong. 2025. Information Diffusion Prediction via Meta-Knowledge Learners. *Information Sciences* 707, Article 122034 (July 2025), 20 pages. doi:10.1016/j.ins.2025.122034
 2. Yutao Wei, Hongzhu Fu, Yuxiang Li, Yichen Xin, Xovee Xu, Ting Zhong, and Fan Zhou. 2025. Decoding Emotional Silences: Reliable Multimodal Sentiment Analysis with Bipolar Uncertainty. In *IEEE International Conference on Multimedia and Expo (ICME '25)*, June 30 – July 4, 2025, Nantes, France. Accepted.
 3. Chunjing Xiao, Jiahui Lu, Xovee Xu, Fan Zhou, Tianshu Xie, Wei Lu*, and Lifeng Xu*. 2025. Reconciling Attribute and Structural Anomalies for Improved Graph Anomaly Detection. *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 14 pages. Early Access. doi:10.1109/tnnls.2025.3561172
 4. Xinglin Lian, Chengtai Cao, Yan Liu, Xovee Xu, Yu Zheng*, and Fan Zhou*. 2025. Facing Anomalies Head-On: Network Traffic Anomaly Detection via Uncertainty-Inspired Inter-Sample Differences. In *The ACM Web Conference*, Apr 28 – May 2, 2025, Sydney, Australia. 3908–3917. doi:10.1145/3696410.3714621
 5. Jian Lang, Rongpei Hong, Jin Xu, Yili Li, Xovee Xu, and Fan Zhou*. 2025. Biting Off More Than You Can Detect: Retrieval-Augmented Multimodal Experts for Short Video Hate Detection. In *The ACM Web Conference*, Apr 28 – May 2, 2025, Sydney, Australia. 2763–2774. doi:10.1145/3696410.3714560
 6. Jiayang Li†, Xovee Xu†, Yili Li, Ting Zhong, Kunpeng Zhang, and Fan Zhou*. 2025. Commonality Augmented Disentanglement for Multimodal Crowdfunding Success Prediction. In *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP '25)*, Apr 6–11, 2025, Hyderabad, India. 5 pages. doi:10.1109/icassp49660.2025.10889564
 7. Xovee Xu, Yifan Zhang, Fan Zhou, and Jingkuan Song*. 2025. Improving Multimodal Social Media Popularity Prediction via Selective Retrieval Knowledge Augmentation. In *AAAI Conference on Artificial Intelligence (AAAI '25)*, Feb 25 – Mar 4, 2025, Philadelphia, USA. 932–940. doi:10.1609/aaai.v39i1.32078
 8. Leyuan Liu, Zhangtao Cheng, Xovee Xu, and Fan Zhou*. 2024. Denoising Propagation Uncertainty for Information Source Localization. In *IEEE Global Communications Conference (GLOBECOM '24)*, Dec 8–12, 2024, Cape Town, South Africa. 4244–4249. doi:10.1109/globecom52923.2024.10901676
 9. Xovee Xu, Ting Zhong, Haoyang Yu, Fan Zhou*, and Goce Trajcevski. 2024. Overcoming Catastrophic Forgetting in Continual Fine-Grained Urban Flow Inference. *ACM Transactions on Spatial Algorithms and Systems (TSAS)* 10, 4, Article 34 (Oct 2024), 26 pages. doi:10.1145/3660523
 10. Zhangtao Cheng, Fan Zhou, Xovee Xu, Kunpeng Zhang, Goce Trajcevski, Ting Zhong, and Philip S. Yu. 2024. Information Cascade Popularity Prediction via Probabilistic Diffusion. *IEEE Transactions on Knowledge and Data Engineering (TKDE)* 36, 12 (Dec 2024), 8541–8555. doi:10.1109/tkde.2024.3465241
 11. Xin Liu, Yi He, Wenxin Tai*, Xovee Xu, Fan Zhou, and Guangchun Luo. 2024. Exploring the Chameleon Effect of Contextual Dynamics in Temporal Knowledge Graph for Event Prediction. *Tsinghua Science and Technology* 30, 1 (Feb 2025), 433–455. doi:10.26599/tst.2024.9010067
 12. Zhangtao Cheng, Jienan Zhang, Xovee Xu, Goce Trajcevski, Ting Zhong, and Fan Zhou*. 2024. Retrieval-Augmented Hypergraph for Multimodal Social Media Popularity Prediction. In *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD '24)*, Aug 25–29, 2024, Barcelona, Spain. 445–455. Oral Presentation. doi:10.1145/3637528.3672041
 13. Jiayang Gu†, Xovee Xu†, Yulu Tian, Yurun Hu, Jiadong Huang, Wenliang Zhong, Fan Zhou, and Lianli Gao*. 2024. RRE: A Relevance Relation Extraction Framework for Cross-Domain Recommender System at Alipay. In *IEEE International Conference on Multimedia and Expo (ICME '24)*, July 15–19, 2024, Niagara Falls, Canada. 6 pages. Oral Presentation. doi:10.1109/icme57554.2024.10687762
- Best Paper Candidate** (15 candidates in 2,099 submitted papers, ~0.71%)
14. Chunjing Xiao, Shikang Pang, Xovee Xu*, Xuan Li, Goce Trajcevski, and Fan Zhou*. 2024. Counterfactual Data Augmentation with Denoising Diffusion for Graph Anomaly Detection. *IEEE Transactions on Computational Social Systems (TCSS)* 11, 6 (Dec 2024), 7555–7567. doi:10.1109/tcss.2024.3403503

15. Xovee Xu[†], Tangjiang Qian[†], Zhe Xiao, Ni Zhang, Jin Wu, and Fan Zhou*. 2024. PGSL: A Probabilistic Graph Diffusion Model for Source Localization. *Expert Systems With Applications* 238, Article 122038 (Mar 2024), 13 pages. doi:10.1016/j.eswa.2023.122028
16. Zhenhui Li, Fan Zhou, Zhiyuan Wang, Xovee Xu*, Leyuan Liu, and Guangqiang Yin. 2024. Measuring and Classifying IP Usage Scenarios: A Continuous Neural Trees Approach. *Scientific Reports* 14, Article 5144 (Mar 2024), 10 pages. doi:10.1038/s41598-024-55750-x
17. Xovee Xu[†], Jiayang Li[†], and Fan Zhou*. 2023. MDCC: A Multimodal Dynamic Dataset for Donation-based Crowdfunding Campaigns. In *ACM International Conference on Information and Knowledge Management (CIKM '23)*, Oct 21–25, 2023, Birmingham, UK. 5417–5421. Oral Presentation. doi:10.1145/3583780.3615124
18. Ce Li, Rongpei Hong, Xovee Xu*, Goce Trajcevski, and Fan Zhou. 2023. Simplifying Temporal Heterogeneous Network for Continuous-Time Link Prediction. In *ACM International Conference on Information and Knowledge Management (CIKM '23)*, Oct 21–25, 2023, Birmingham, UK. 1288–1297. Oral Presentation. doi:10.1145/3583780.3615059
19. Qiang Gao, Jinyu Hong, Xovee Xu, Ping Kuang, Fan Zhou*, and Goce Trajcevski. 2023. Predicting Human Mobility via Self-Supervised Disentanglement Learning. *IEEE Transactions on Knowledge and Data Engineering (TKDE)* 36, 5 (May 2024), 2126–2141. doi:10.1109/tkde.2023.3317175
20. Xovee Xu[†], Zhiyuan Wang[†], Fan Zhou*, Ying Huang, Ting Zhong, and Goce Trajcevski. 2023. Dynamic Transformer ODEs for Large-Scale Reservoir Inflow Forecasting. *Knowledge-Based Systems* 276, Article 110737 (Sept 2023), 16 pages. doi:10.1016/j.knosys.2023.110737
21. Xovee Xu, Zhiyuan Wang, Qiang Gao, Ting Zhong, Bei Hui*, Fan Zhou, and Goce Trajcevski. 2023. Spatial-Temporal Contrasting for Fine-Grained Urban Flow Inference. *IEEE Transactions on Big Data* 9, 6 (Dec 2023), 1711–1725. doi:10.1109/tbdata.2023.3316471
22. Xovee Xu, Ting Zhong, Fan Zhou*, Rongfan Li, Goce Trajcevski, and Qinggang Meng. 2023. Learning Spatiotemporal Manifold Representation for Probabilistic Land Deformation Prediction. *IEEE Transactions on Cybernetics* 54, 1 (Jan 2024), 572–585. doi:10.1109/tcyb.2023.3291049
23. Xovee Xu, Yutao Wei, Pengyu Wang, Xucheng Luo*, Fan Zhou, and Goce Trajcevski. 2023. Diffusion Probabilistic Modeling for Fine-Grained Traffic Flow Inference with Relaxed Structural Constraint. In *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP '23)*, June 4–10, 2023, Rhodes Island, Greece. 5 pages. Oral Presentation. doi:10.1109/icassp49357.2023.10096169
24. Chunjing Xiao[†], Xovee Xu[†], Yue Lei, Kunpeng Zhang, Siyuan Liu, and Fan Zhou*. 2023. Counterfactual Graph Learning for Anomaly Detection on Attributed Networks. *IEEE Transactions on Knowledge and Data Engineering (TKDE)* 35, 10 (Oct 2023), 10540–10553. doi:10.1109/tkde.2023.3250523
25. Haoyang Yu[†], Xovee Xu[†], Ting Zhong*, and Fan Zhou*. 2023. Overcoming Forgetting in Fine-Grained Urban Flow Inference via Adaptive Knowledge Replay. In *AAAI Conference on Artificial Intelligence (AAAI '23)*, Feb 7–14, 2023, Washington DC, USA. 5393–5401. Oral Presentation. doi:10.1609/aaai.v37i4.25671
26. Zhiyuan Wang, Xovee Xu, Goce Trajcevski, Weifeng Zhang, Ting Zhong, and Fan Zhou*. 2022. Learning Latent Seasonal-Trend Representations for Time Series Forecasting. In *Conference on Neural Information Processing Systems (NeurIPS '22)*, Nov 28 – Dec 9, 2022, New Orleans, USA. 38775–38787. Oral Presentation. <https://dblp.org/rec/conf/nips/WangXZTZ022>
27. Yang Cao, Zhenzhen Dang, Feng Wu, Xovee Xu*, and Fan Zhou. 2022. Probabilistic Electricity Demand Forecasting with Transformer-Guided State Space Model. In *IEEE International Conference on Automation, Electronics and Electrical Engineering (AUTEEE '22)*, Nov 18–20, 2022, Shenyang, China. 964–969. doi:10.1109/auteee56487.2022.9994294
28. Liu Yu[†], Xovee Xu[†], Goce Trajcevski, and Fan Zhou*. 2022. Transformer-Enhanced Hawkes Process with Decoupling Training for Information Cascade Prediction. *Knowledge-Based Systems* 255, Article 109740 (Nov 2022), 18 pages. doi:10.1016/j.knosys.2022.109740
29. Ting Zhong, Haoyang Yu, Rongfan Li, Xovee Xu*, Xucheng Luo, and Fan Zhou. 2022. Probabilistic Fine-Grained Urban Flow Inference with Normalizing Flows. In *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP '22)*, May 23–27, 2022, Singapore & Online. 3663–3667. doi:10.1109/icassp43922.2022.9747900

30. Xovee Xu, Ting Zhong, Ce Li, Goce Trajcevski, and Fan Zhou*. 2022. Heterogeneous Dynamical Academic Network for Learning Scientific Impact Propagation. *Knowledge-Based Systems* 238, Article 107839 (Feb 2022), 17 pages. doi:10.1016/j.knosys.2021.107839
31. Zhiyuan Wang[†], Xovee Xu[†], Goce Trajcevski, Kunpeng Zhang, Ting Zhong, and Fan Zhou*. 2022. PrEF: Probabilistic Electricity Forecasting via Copula-Augmented State Space Model. In *AAAI Conference on Artificial Intelligence (AAAI '22)*, Feb 22 – Mar 1, 2022, Virtual Event. 12200–12207. doi:10.1609/aaai.v36i11.21480
32. Xovee Xu, Fan Zhou*, Kunpeng Zhang, and Siyuan Liu. 2022. CCGL: Contrastive Cascade Graph Learning. *IEEE Transactions on Knowledge and Data Engineering (TKDE)* 35, 5 (May 2023), 4539–4554. doi:10.1109/tkde.2022.3151829
33. Fan Zhou, Ce Li, Xovee Xu, Leyuan Liu*, and Goce Trajcevski. 2021. HGENA: A Hyperbolic Graph Embedding Approach for Social Network Alignment. In *IEEE Global Communications Conference (GLOBECOM '21)*, Dec 7–11, 2021, Hybrid Conference (In-person/Virtual), Madrid, Spain. 6 pages. doi:10.1109/globecom46510.2021.9685690
34. Fan Zhou, Pengyu Wang, Xovee Xu*, Wenxin Tai, and Goce Trajcevski. 2021. Contrastive Trajectory Learning for Tour Recommendation. *ACM Transactions on Intelligent Systems and Technology (TIST)* 13, 1, Article 4 (Feb 2022), 25 pages. doi:10.1145/3462331
35. Xovee Xu, Fan Zhou*, Kunpeng Zhang, Siyuan Liu, and Goce Trajcevski. 2021. CasFlow: Exploring Hierarchical Structures and Propagation Uncertainty for Cascade Prediction. *IEEE Transactions on Knowledge and Data Engineering (TKDE)* 35, 4 (Apr 2023), 3484–3499. doi:10.1109/tkde.2021.3126475
36. Guanyu Wang, Ting Zhong, Xovee Xu, Kunpeng Zhang, Fan Zhou*, and Yong Wang. 2021. Vector-Quantized Autoencoder with Copula for Collaborative Filtering. In *ACM International Conference on Information and Knowledge Management (CIKM '21)*, Nov 1–5, 2021, Virtual Event. 3458–3462. doi:10.1145/3459637.3482216
37. Fan Zhou, Liu Yu, Xovee Xu*, and Goce Trajcevski. 2021. Decoupling Representation and Regressor for Long-Tailed Information Cascade Prediction. In *International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '21)*, July 11–15, 2021, Virtual Event. 1875–1879. doi:10.1145/3404835.3463104
38. Fan Zhou, Xovee Xu*, Goce Trajcevski, and Kunpeng Zhang. 2021. A Survey of Information Cascade Analysis: Models, Predictions, and Recent Advances. *ACM Computing Surveys* 54, 2, Article 27 (Mar 2022), 36 pages. doi:10.1145/3433000
39. Fan Zhou, Zijing Wen, Ting Zhong*, Goce Trajcevski, Xovee Xu, and Leyuan Liu. 2020. Unsupervised User Identity Linkage via Graph Neural Networks. In *IEEE Global Communications Conference (GLOBECOM '20)*, Dec 7–11, 2020, Virtual Event. 6 pages. doi:10.1109/globecom42002.2020.9322311
40. Fan Zhou, Xiuxiu Qi, Xovee Xu, Jiahao Wang*, Ting Zhong, and Goce Trajcevski. 2020. Meta-Learned User Preference for Topic Participation Prediction. In *IEEE Global Communications Conference (GLOBECOM '20)*, Dec 7–11, 2020, Virtual Event. 6 pages. doi:10.1109/globecom42002.2020.9322197
41. Fan Zhou, Xin Jing, Xovee Xu, Ting Zhong, Goce Trajcevski, and Jin Wu*. 2020. Continual Information Cascade Learning. In *IEEE Global Communications Conference (GLOBECOM '20)*, Dec 7–11, 2020, Virtual Event. 6 pages. doi:10.1109/globecom42002.2020.9322124
42. Fan Zhou, Xovee Xu, Kunpeng Zhang, Goce Trajcevski, and Ting Zhong*. 2020. Variational Information Diffusion for Probabilistic Cascade Prediction. In *IEEE International Conference on Computer Communications (INFOCOM '20)*, July 6–9, 2020, Virtual Event. 1618–1627. Oral Presentation. doi:10.1109/infocom41043.2020.9155349

INFOCOM 2020 Student Conference Award

Abstracts & Short Posters

1. Jienan Zhang, Jie Liu, Zhangtao Cheng, Xovee Xu, Fang Liu*, Ting Zhong, and Kunpeng Zhang. 2024. THGFormer: Time-Aware Hypergraph Learning for Multimodal Social Media Popularity Prediction (Student Abstract). In *AAAI Conference on Artificial Intelligence (AAAI '24)*, Feb 20–27, 2024, Vancouver, Canada. 23705–23706. doi:10.1609/aaai.v38i21.30534

2. Wenxue Ye, Shichong Li, Zhangtao Cheng, Xovee Xu, Ting Zhong, Bei Hui*, and Fan Zhou. 2024. Decoupling User Relationships Guides Information Diffusion Prediction (Student Abstract). In *AAAI Conference on Artificial Intelligence (AAAI '24)*, Feb 20–27, 2024, Vancouver, Canada. 23696–23698. doi:10.1609/aaai.v38i21.30530
3. Fan Zhou*, Man Fang, and Xovee Xu. 2023. Machine Learning for Electrolyte Multi-Parameter Mapping (Forum Speech Abstract). In *The 6th Forum of Materials Genome Engineering*, Feb 16–18, 2023, Hangzhou, China. 2 pages.
4. Tangjiang Qian†, Xovee Xu†, Zhe Xiao, Ting Zhong*, and Fan Zhou. 2023. A Probabilistic Graph Diffusion Model for Source Localization (Student Abstract). In *AAAI Conference on Artificial Intelligence (AAAI '23)*, Feb 7–14, 2023, Washington DC, USA. 16306–16307. doi:10.1609/aaai.v37i13.27013
5. Zhangtao Cheng, Xovee Xu, Ting Zhong*, Fan Zhou, and Goce Trajcevski. 2023. CasODE: Modeling Irregular Information Cascade via Neural Ordinary Differential Equations (Student Abstract). In *AAAI Conference on Artificial Intelligence (AAAI '23)*, Feb 7–14, 2023, Washington DC, USA. 16192–16193. doi:10.1609/aaai.v37i13.26956
6. Liu Yu, Xovee Xu, Ting Zhong, Goce Trajcevski, and Fan Zhou*. 2022. Linking Transformer to Hawkes Process for Information Cascade Prediction (Student Abstract). In *AAAI Conference on Artificial Intelligence (AAAI '22)*, Feb 22 – Mar 1, 2022, Virtual Event. 13103–13104. doi:10.1609/aaai.v36i11.21688
7. Haoyang Yu, Xovee Xu, Ting Zhong, and Fan Zhou*. 2022. Fine-Grained Urban Flow Inference via Normalizing Flows (Student Abstract). In *AAAI Conference on Artificial Intelligence (AAAI '22)*, Feb 22 – Mar 1, 2022, Virtual Event. 13101–13102. doi:10.1609/aaai.v36i11.21687
8. Guanyu Wang, Xovee Xu, Ting Zhong*, and Fan Zhou. Conditional Collaborative Filtering Process for Top-K Recommender System (Student Abstract). In *AAAI Conference on Artificial Intelligence (AAAI '22)*, Feb 22 – Mar 1, 2022, Virtual Event. 13073–13074. doi:10.1609/aaai.v36i11.21673

Pre-print

1. Fan Zhou, Xovee Xu, Ce Li, Goce Trajcevski, Ting Zhong, and Kunpeng Zhang. 2020. A Heterogeneous Dynamical Graph Neural Networks Approach to Quantify Scientific Impact. arXiv:2003.12042. 8 pages.

Theses

1. Xovee Xu. 2025. Understanding and Predicting Multimodal User-Generated Content (in Chinese). PhD Dissertation. School of Computer Science and Engineering, University of Electronic Science and Technology of China (UESTC), Chengdu, Sichuan, China. June 2025. Advisor: Jingkuan Song.
2. Xovee Xu. 2021. A Research of Information Diffusion Models and Popularity Prediction Using Graph Neural Networks (in Chinese). Master's Thesis. School of Information and Software Engineering, University of Electronic Science and Technology of China (UESTC), Chengdu, Sichuan, China. June 2021. 93 pages. Advisor: Ting Zhong. Committee Chair: Jingye Cai. doi:10.27005/d.cnki.gdzku.2021.001672

Outstanding Master's Thesis of UESTC (105 awarded among 4,929 theses, ~2.13%)

3. Xovee Xu. 2018. Testing Methods for Large-Scale Insurance Payment Systems (in Chinese). Bachelor's Thesis. School of Information and Software Engineering, University of Electronic Science and Technology of China (UESTC), Chengdu, Sichuan, China. June 2018. 54 pages. Advisors: Xiaoqing Hao and Jie Gao.

Summary

- ×5 GLOBECOM, TKDE
- ×3 AAAI, CIKM, ICASSP, KBS
- ×2 ICME, WWW
- ×1 ACM CSUR, ACM KDD, ACM TIST, AUTEED, ESWA, INFOCOM, Inf Sci, NeurIPS, Sci Rep, SIGIR, TBDATA, TCSS, TCYB, TNNLS, TSAS, Tsinghua S&T

Patents

1. Fan Zhou, Zhangtao Cheng, Zhe Xiao, Xovee Xu, and Ting Zhong. 2023. Information Cascade Popularity Prediction Method and System Based on Probabilistic Diffusion. (June 2023). China Invention Patent, No. CN116308854A, Filed Dec. 9th., 2022.
2. Fan Zhou, Zhangtao Cheng, Zhe Xiao, Xovee Xu, and Ting Zhong. 2023. Information Diffusion Prediction System and Method Based on Meta-Knowledge Learning. (Apr. 2023). China Invention Patent, No. CN115936120A, Filed Dec. 8th., 2022.
3. Fan Zhou, Liu Yu, Ting Zhong, Xovee Xu, and Ping Kuang. 2022. Information Cascade Prediction System and Method Based on Transformer-Enhanced Hawkes Process. (Nov. 2022). China Invention Patent, No. CN115409155A, Filed Aug. 17th., 2022.
4. Fan Zhou, Chengtai Cao, Ting Zhong, and Xovee Xu. 2022. Meta-Learner Based Training Data Generation Method and Causal Effect Heterogeneous Reaction Difference Estimation Method. (May 2022). China Invention Patent, No. CN113095440B, Filed Apr. 30th., 2021, Issued May 17th., 2022.

Main Research Funding

Young Elite Scientists Sponsorship Program – Doctoral Student Special Plan

2025

Funding Agency: China Association for Science and Technology (CAST)

Plan Supporter: China Computer Federation (CCF)

Role: Principal Investigator

Duration: 2025–2026

Description: The CAST provides the recipient with two years of supporting services, including a CNY 40,000 (~\$5500 USD) fund and several opportunities for professional activities. The inaugural Plan in 2025 is highly selective, fewer than 1% of PhD student in China have been chosen.

Collaborative Research Funding

Supplier Relation Modeling Based on Multi-View Multi-Task Graph Representation Learning

Sponsor: Ant Group

Role: Major Participant (PI: Lianli Gao)

Duration: Sept 2022 – June 2023

Research on the Interpretability of Graph Deep Learning Models

Funding Agency: National Natural Science Foundation of China (NSFC)

Role: Major Participant (PI: Fan Zhou)

Funding Amount: CNY 570,000 (~\$87,000 USD)

Duration: 2021–2024

Teaching Experience

C Programming Language

Role: Teaching Assistant, with Prof. Ting Zhong

Institution: UESTC, School of Information and Software Engineering

Term: Spring 2020

Software Project Management (Summer Course)

Institution: UESTC, School of Information and Software Engineering

Role: Teaching Assistant, with Prof. Gianmario Motta (University of Pavia)

Term: Summer 2019

Industrial Experience

Kash Institute of Electronics and Information Industry, Kashi, Xinjiang, China

Role: Research Intern, on designing crowdfunding simulation algorithms

Duration: July – Aug 2023

Ant Group, Hangzhou, Zhejiang, China

Role: Algorithm Engineer Intern, on building large-scale service-content knowledge graph

Nickname: 程璐

Duration: Dec 2022 – Jan 2023

PICC Property & Casualty Co. Ltd., Chengdu, Sichuan, China

Role: Software Test Engineer Intern, on large-scale insurance payment systems

Duration: Feb – May, 2018

Chengdu Gluxen Tech. Co. Ltd., Chengdu, Sichuan, China

Role: Web Developer Intern, on designing webpages

Duration: Feb – July, 2017

Competition

AI Algorithm Competition (Weibo Diffusion Popularity Prediction Track)

2021

Organizers: People's Daily Online, State Key Laboratory of Communication Content Cognition

Team: Xovee Xu, Ce Li, Zhiyuan Wang, and Fan Zhou (Advisor)

Recognition: Honorable Mention (7th Place)

Datasets

MDCC: A Multimodal Dynamic Dataset for Donation-Based Crowdfunding Campaigns

2023

<https://github.com/Jiayang-L1/mdcc>

DiDi-Xi'an: A Dataset for Fine-Grained Urban Flow Inference

2022

<https://github.com/PattonYu/fufi-didi-xian>

Demos & Resources

<https://www.xoveexu.com/project>

Computer Science Conference Statistics

2024

<https://csconfstats.xoveexu.com>

<https://csconfstats.xoveexu.com/fun-fact>

<https://github.com/Xovee/cs-conf-stats>

Fund, Award, and Scholarship Translation

2023

<https://www.xoveexu.com/project/fund-translation>

Co-Authorship Network Visualization

2021

<https://github.com/Xovee/canv>

Curriculum Vitae L^AT_EX Template 2021
<https://github.com/Xovee/latex-cv>

UESTC Course (3K stars) 2019
<https://github.com/Xovee/uestc-course>

Distinctions (Longer List)

Research Awards

Best Paper Candidate, IEEE ICME 2024, 15/2099 2024
 Outstanding Master's Thesis of UESTC, 105/4929 2021
 Student Conference Award, IEEE INFOCOM 2020 2020

Funding

Young Elite Scientists Sponsorship Program for Doctoral Students, China Association for S&T 2025

Service Award

Excellent Reviewer, ACM KDD 2025 2025

Student Awards & Scholarships

Outstanding Graduate of Sichuan Province, China 2025
 Outstanding Graduate of UESTC 2025
 Second Prize, Academic Scholarship for PhD Student, UESTC, CNY 14K 2024
 Tencent Scholarship, CNY 15K 2023
 First Prize, Academic Scholarship for PhD Student, UESTC, CNY 18K 2023
 Wuliangye Innovation Scholarship, CNY 20K 2022
 First Prize, Academic Scholarship for PhD Student, UESTC, CNY 18K 2022
 Academic Rising Star of UESTC, CNY 3K 2022
 Outstanding PhD Student, UESTC 2022
 AAAI-22 Scholarship 2022
 Outstanding Master Student, UESTC 2020
 First Prize, Academic Scholarship for Master Student, UESTC, CNY 10K 2020

Erdős Number for Fun

Paul Erdős $\xrightarrow{1}$ János Pach $\xrightarrow{2}$ Hervé Brönnimann $\xrightarrow{3}$ Goce Trajcevski $\xrightarrow{4}$ Xovee Xu

Programming Languages

Python

JavaScript

Spoken Languages

Native Mandarin
Native Jin Chinese
Fluent English
Basic Southwestern Mandarin
Basic Spanish

Research Links

dblp	https://dblp.uni-trier.de/pid/261/9309.html
GitHub	https://github.com/Xovee
Google Scholar	https://scholar.google.com/citations?user=ra0qyRQAAAAJ&hl=en&oi=ao
Lab Page	https://www.icdmlab.com
LinkedIn	https://www.linkedin.com/in/xovee
My Homepage	https://www.xoveexu.com
ORCID	https://orcid.org/0000-0001-6415-7558
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