

# Xovee Xu

Postdoctoral Researcher  
School of Information and Software Engineering  
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## Education

Ph.D. in Computer Science, UESTC, Chengdu, China	2025
M.S. in Software Engineering, UESTC, Chengdu, China	2021
B.S. in Software Engineering, UESTC, Chengdu, China	2018

## Professional Appointment

Postdoctoral Researcher, UESTC, Chengdu, China	Jan 2026–Present
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## Research Interests

Artificial intelligence & machine learning  
Computational social science & human-centered data mining  
Multimodal learning & spatio-temporal computing

## Distinctions

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

## Professional Services

### Conference Program Committee Member & Reviewer

KDD	2023, 2024, 2025, 2026
CIKM	2023, 2024, 2025, 2026
ICASSP	2024, 2025, 2026
ICME	2024, 2025, 2026
AAAI	2026
MLSP	2026
SIGSPATIAL	2026
IJCNN	2025
WWW	2025
SIAM SDM	2024

## Peer Review

20 Selected Venues		Papers Reviewed
KDD	ACM SIGKDD Conference on Knowledge Discovery and Data Mining	×31
CIKM	ACM International Conference on Information and Knowledge Management	×25
ICME	IEEE International Conference on Multimedia and Expo	×13
TKDE	IEEE Transactions on Knowledge and Data Engineering	×13
AAAI	AAAI Conference on Artificial Intelligence	×10
ICASSP	IEEE International Conference on Acoustics, Speech, and Signal Processing	×10
ESWA	Expert Systems With Applications	×9
APIN	Applied Intelligence	×8
TNNLS	IEEE Transactions on Neural Networks and Learning Systems	×8
WWW	The ACM Web Conference	×7
TWEB	ACM Transactions on Web	×6
ICDE	IEEE International Conference on Data Engineering	×6
IoT-J	IEEE Internet of Things Journal	×5
KBS	Knowledge-Based Systems	×5
TBDATA	IEEE Transactions on Big Data	×5
ACM MM	ACM International Conference on Multimedia	×4
NeurIPS	Conference on Neural Information Processing Systems	×4
TIST	ACM Transactions on Intelligent Systems and Technology	×3
IJCNN	International Joint Conference on Neural Networks	×3
SIAM SDM	SIAM International Conference on Data Mining	×3
		<b>Above =178</b>
		<b>Total =240</b>

## Other Conference Activities

Session Chair, ICCCS '26, Wuhan, China	2026
Artifact Badging Committee Member, WWW '24, Singapore	2024
Student Volunteer, ACM Multimedia '21, Chengdu, China	2021
Student Volunteer, SIGIR '21, Online Conference	2021
Student Volunteer, ICTIR '21, Online Conference	2021

## Full Records and Statistics

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

## Professional Memberships

<b>AAAI</b>	Association for the Advancement of Artificial Intelligence Student Member (2025)
<b>ACM</b>	Association for Computing Machinery Student Member (2020)
<b>CCF</b>	China Computer Federation Student Member (2021)
<b>IEEE</b>	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. Jiansong Yang, Tao Li, Hanbo Yang, Yan Liu, and Xovee Xu\*. 2026. Directional Graph Flow and Koopman-Inspired Dynamics for Probabilistic Land Deformation Prediction. In *International Conference on Computer and Communication Systems (ICCCS '26)*, Apr 17–20, 2026, Wuhan, China. 6 pages.

#### Best Presentation Award

2. Xovee Xu, Shuojun Lin, Fan Zhou, and Jingkuan Song\*. 2026. Learning to Curate Context: Jointly Optimizing Retrieval and Prediction for Multimodal Social Media Popularity. In *AAAI Conference on Artificial Intelligence (AAAI '26)*, Jan 20–27, 2026, Singapore. 1382–1390. Oral Presentation. doi:10.1609/aaai.v40i2.37112
3. Abdisalam Mahamed Badel, Ting Zhong, Xovee Xu, Wenxin Tai, and Fan Zhou\*. 2025. Hate Speech Detection in Somali-English Code-Switched Texts. In *CCF International Conference on Natural Language Processing and Chinese Computing (NLPCC '25)*, Aug 7–9, 2025, Urumqi, China. 364–376. Oral Presentation. doi:10.1007/978-981-95-3349-7\_28
4. 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. 6 pages. doi:10.1109/icme59968.2025.11209057
5. Weifeng Zhang, Yan Liu, Xovee Xu, Fan Zhou\*, Ting Zhong, and Kunpeng Zhang. 2025. Generalizing Across Non-stationary Series via Learning Dynamic Causal Factors. *Pattern Recognition* 169, Article 111928 (Jan 2026), 10 pages. doi:10.1016/j.patcog.2025.111928
6. 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)* 36, 9 (Sept 2025), 16661–16674. doi:10.1109/tnnls.2025.3561172
7. 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 (WWW '25)*, Apr 28–May 2, 2025, Sydney, Australia. 3908–3917. doi:10.1145/3696410.3714621
8. 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 (WWW '25)*, Apr 28–May 2, 2025, Sydney, Australia. 2763–2774. doi:10.1145/3696410.3714560
9. 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
10. 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
11. 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
12. 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

13. 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
14. 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
15. 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
16. 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
17. Jiayang Gu<sup>†</sup>, Xovee Xu<sup>†</sup>, 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%)
18. 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
19. 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
20. Xovee Xu<sup>†</sup>, Jiayang Li<sup>†</sup>, 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
21. 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
22. Xovee Xu<sup>†</sup>, Tangjiang Qian<sup>†</sup>, Zhe Xiao, Ni Zhang, Jin Wu, and Fan Zhou\*. 2023. 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
23. 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
24. 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
25. 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
26. Xovee Xu<sup>†</sup>, Zhiyuan Wang<sup>†</sup>, 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.knsys.2023.110737
27. 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

28. Chunjing Xiao<sup>†</sup>, Xovee Xu<sup>†</sup>, 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
29. Haoyang Yu<sup>†</sup>, Xovee Xu<sup>†</sup>, 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
30. 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/WangXZTZ2022>
31. 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
32. Liu Yu<sup>†</sup>, Xovee Xu<sup>†</sup>, 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
33. 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
34. Zhiyuan Wang<sup>†</sup>, Xovee Xu<sup>†</sup>, 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
35. 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
36. Xovee Xu, Ting Zhong, Ce Li, Goce Trajcevski, and Fan Zhou\*. 2021. 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
37. Fan Zhou, Ce Li, Xovee Xu, Leyuan Liu\*, and Goce Trajcevski. 2021. HGENA: A Hyperbolic Graph Embedding Approach for 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
38. 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
39. 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
40. 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
41. 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
42. 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

43. 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
44. 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
45. 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
46. 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.

## Dissertation & Thesis

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. Dec 2025. 227 pages. Advisor: Jingkuan Song. Committee Chair: Wei Jiang.
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%)

## Summary

- ×5 GLOBECOM, TKDE
- ×4 AAAI
- ×3 CIKM, ICASSP, KBS
- ×2 ICME, WWW
- ×1 ACM CSUR, AUTEEE, ESWA, ICCCS, Inf Sci, INFOCOM, KDD, NeurIPS, NLPCC, PR, Sci Rep, SIGIR, TBDATA, TCSS, TCYB, TIST, TNNLS, TSAS, Tsinghua S&T

## Conference Oral Presentations

- 2026 The 40<sup>th</sup> Annual AAAI Conference on Artificial Intelligence, Singapore. Learning to Curate Context: Jointly Optimizing Retrieval and Prediction for Multimodal Social Media Popularity.
- 2023 The 32<sup>nd</sup> ACM International Conference on Information and Knowledge Management (CIKM), Birmingham, UK. MDCC: A Multimodal Dynamic Dataset for Donation-based Crowdfunding Campaigns.
- 2023 The 48<sup>th</sup> IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Rhodes Island, Greece. Diffusion Probabilistic Modeling for Fine-Grained Traffic Flow Inference with Relaxed Structural Constraint.
- 2020 The 39<sup>th</sup> IEEE International Conference on Computer Communications (INFOCOM), Online. Variational Information Diffusion for Probabilistic Cascade Prediction.

## Main Research Project

**Young Elite Scientists Sponsorship Program – Doctoral Student Special Plan** 2025

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

**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 Projects

**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

## **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 9, 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 8, 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. CN115409155B. Filed Aug 17, 2022. Issued Jan 9, 2026.
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 30, 2021. Issued May 17, 2022.

## **Distinctions (Longer List)**

### **Research Awards**

Best Presentation Award, ICCCS 2026	2026
Best Paper Candidate, ICME 2024, 15/2099	2024
Outstanding Master's Thesis of UESTC, 105/4929	2021
Student Conference Award, INFOCOM 2020	2020

### **Funding**

Young Elite Scientists Sponsorship Program for Doctoral Students, China Association for S&T	2025
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### **Service Awards**

Excellent Reviewer, KDD 2025, February Circle, Top 10–20% of Reviewers	2025
Excellent Reviewer, KDD 2025, August Circle, Top 10–20% of Reviewers	2024

### **Certification**

ACM Certified Reviewer, ACM	2025
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### **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

## 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

## Tools & Resources

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

### Scholar Timeline

2025

<https://www.xoveexu.com/stats#scholar-timeline>

<https://github.com/Xovee/scholar-timeline>

<b>Computer Science Conference Statistics</b>	2024
<a href="https://csconfstats.xoveexu.com">https://csconfstats.xoveexu.com</a>	
<a href="https://csconfstats.xoveexu.com/fun-fact">https://csconfstats.xoveexu.com/fun-fact</a>	
<a href="https://github.com/Xovee/cs-conf-stats">https://github.com/Xovee/cs-conf-stats</a>	
<b>Fund, Award, and Scholarship Translation</b>	2023
<a href="https://www.xoveexu.com/project/fund-translation">https://www.xoveexu.com/project/fund-translation</a>	
<b>Co-Authorship Network Visualization</b>	2021
<a href="https://www.xoveexu.com/stats#co-authors">https://www.xoveexu.com/stats#co-authors</a>	
<a href="https://github.com/Xovee/canv">https://github.com/Xovee/canv</a>	
<b>Curriculum Vitae L<sup>A</sup>T<sub>E</sub>X Template</b>	2021
<a href="https://github.com/Xovee/latex-cv">https://github.com/Xovee/latex-cv</a>	
<b>UESTC Course (3K stars)</b>	2019
<a href="https://github.com/Xovee/uestc-course">https://github.com/Xovee/uestc-course</a>	

## Datasets

<b>MDCC: A Multimodal Dynamic Dataset for Donation-Based Crowdfunding Campaigns</b>	2023
<a href="https://github.com/Jiayang-L1/mdcc">https://github.com/Jiayang-L1/mdcc</a>	
<b>DiDi-Xi'an: A Dataset for Fine-Grained Urban Flow Inference</b>	2022
<a href="https://github.com/PattonYu/fufi-didi-xian">https://github.com/PattonYu/fufi-didi-xian</a>	

## Competition

<b>AI Algorithm Competition (Weibo Diffusion Popularity Prediction Track)</b>	2021
<b>Organizers:</b> People's Daily Online, State Key Laboratory of Communication Content Cognition	
<b>Team:</b> Xovee Xu, Ce Li, Zhiyuan Wang, and Fan Zhou (Advisor)	
<b>Recognition:</b> Honorable Mention (7th Place)	

## Advisors

### Ph.D. in Computer Science

Prof. Jingkuan Song (Tongji University, Shanghai, China)

Prof. Fan Zhou (UESTC, Chengdu, China)

Prof. Lianli Gao (UESTC, Chengdu, China)

### M.S. in Software Engineering

Prof. Ting Zhong (UESTC, Chengdu, China)

Prof. Fan Zhou (UESTC, Chengdu, China)

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