# Xovee Xu

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## Education

**University of Electronic Science and Technology of China (UESTC)**

Ph.D., Computer Science, 2021 to 2025 (expc.)

M.S., Software Engineering, 2021

B.S., Software Engineering, 2018

## Academic Employment

Research Assistant, University of Electronic Science and Technology of China, 2018 -

## Distinction

### Student Award & Scholarship

Excellent Master Thesis, 105/4929; and PhD Entrance Scholarship, UESTC, 2021

Outstanding Graduate Student; and First Prize Scholarship, 20%, UESTC, 2020

### Paper Award

INFOCOM 2020 Student Conference Award, IEEE ComSoc, 2020

## Academic Service

### Ad Hoc Reviewing (selected)

AAAI Conference on Artificial Intelligence (AAAI), $\times 1$

ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD), $\times 1$

ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, $\times 1$

IEEE International Conference on Big Data, $\times 1$

IEEE Internet of Things Journal, $\times 2$

IEEE Transactions on Big Data, ×1
IEEE Transactions on Knowledge and Data Engineering (TKDE), ×1
IEEE Transactions on Neural Networks and Learning Systems (TNNLS), ×1
IEEE/ACM Transactions on Networking (TON), ×1
International Journal of Intelligent Systems (IJIS), ×1

## Volunteering

Student Volunteer, SIGIR 2021, Online Conference, Jul 11-15, 2021
Student Volunteer, ICTIR 2021, Online Conference, Jul 11, 2021

## Professional Membership

Association for Computing Machinery (ACM)
        Member (2020)
Institute of Electrical and Electronics Engineers (IEEE)
        Graduate Student Member (2020)

# Area of Interest

Social network analysis
Spatial-temporal data mining
Science of science

# Publication

\* Corresponding

## Refereed Conference Articles

1. Fan Zhou, Ce Li, Xovee Xu, Xucheng Luo, and Ting Zhong. 2020. HGENA: A hyperbolic graph embedding approach for social network alignment. IEEE Global Communications Conference (GLOBECOM), Hybrid Conference (In-person/Virtual), Madrid, Spain, Dec 7-11, 2021, 6 pages, Accepted.

2. Fan Zhou, Liu Yu, Xovee Xu\*, and Goce Trajcevski. 2021. Decoupling representation and regressor for long-tailed information cascade prediction. International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), Virtual Event, Jul 11-15, 2021, pp. 1875-1879, doi:10.1145/3404835.3463104

3. Fan Zhou, Xiuxiu Qi, Xovee Xu, Jiahao Wang\*, Ting Zhong, and Goce Trajcevski. 2020. Meta-learned user preference for topic participation prediction. IEEE Global Communications Conference (GLOBECOM), Virtual Conference, Dec 7-11, 2020, 6 pages, doi:10.1109/GLOBECOM42002.2020.9322197

4. Fan Zhou, Zijing Wen, Ting Zhong*, Goce Trajcevski, Xovee Xu, and Leyuan Liu. 2020. Unsupervised user identity linkage via graph neural networks. IEEE Global Communications Conference (GLOBECOM), Virtual Conference, Dec 7-11, 2020, 6 pages, doi:10.1109/GLOBECOM42002.2020.9322311

5. Fan Zhou, Xin Jing, Xovee Xu, Ting Zhong, Goce Trajcevski, and Jin Wu*. 2020. Continual information cascade learning. IEEE Global Communications Conference (GLOBECOM), Virtual Conference, Dec 7-11, 2020, 6 pages, doi:10.1109/GLOBECOM42002.2020.9322124

6. Fan Zhou, Xovee Xu, Kunpeng Zhang, Goce Trajcevski, and Ting Zhong*. 2020. Variational information diffusion for probabilistic cascade prediction. IEEE International Conference on Computer Communications (INFOCOM), Virtual Conference, Jul 6-9, 2020, pp. 1618-1627, doi:10.1109/INFOCOM41043.2020.9155349
   **INFOCOM 2020 Student Conference Award**

## Refereed Journal Articles

7. 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)*, 2021, Accepted
   Special Issue on Intelligent Trajectory Data Analytics

8. Fan Zhou, Xovee Xu*, Goce Trajcevski, Kunpeng Zhang. 2021. A survey of information cascade analysis: Models, predictions, and recent advances. *ACM Computing Surveys (CSUR)*, vol. 54, no. 2, article 27, 36 pages, Mar 2021, doi:10.1145/3433000, arXiv:2005.11041

## Thesis

9. 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, Jun 2021, 93 pages. Supervisors: Ting Zhong. Committee chair: Jingye Cai.
   **Excellent Master Thesis of UESTC (105/4929)**

## Pre-print

10. Xovee Xu, Fan Zhou*, Kunpeng Zhang, and Siyuan Liu. 2021. CCGL: Contrastive Cascade Graph Learning. arXiv:2107.12576, Jul 2021, 14 pages.
    Code: `https://github.com/Xovee/ccgl`

11. 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, Mar 2020, 8 pages.
    Code: `https://github.com/celi52/si-hdgnn`

## On-going Articles

12. Guanyu Wang, Ting Zhong, Xovee Xu, Kunpeng Zhang, Fan Zhou, and Yong Wang. 2021. Vector-quantized autoencoder with copula for collaborative filtering. Under review, 2021

13. Xovee Xu, Ting Zhong, Fan Zhou, Goce Trajcevski, and Xi Wu. 2021. Spatial-temporal contrasting for fine-grained urban flow super-resolution. Under review, 2021
    Code: `https://github.com/Xovee/stcf`

14. Fan Zhou, Xovee Xu*, Kunpeng Zhang, Siyuan Liu, and Goce Trajcevski. 2020. CasFlow: Exploring hierarchical structures and propagation uncertainty for cascade prediction. Under review, 2020
Code: `https://github.com/Xovee/casflow`

## Teaching Experience

**C Programming Language** Spring 2020

Teaching Assistant, with Prof. Ting Zhong, at UESTC

**Software Project Management** Summer 2019

Teaching Assistant, with Prof. Gianmario Motta (University of Pavia), at UESTC

## Language

Native Chinese (Mandarin & Northern Shaanxi Dialect)

Fluent English

July 29, 2021