# Xovee Xu

*Curriculum Vitae*

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## Summary


- I am currently a third-year master student major in software engineering at UESTC, China, expected to graduate in Jun, 2021.
- During three years of academic research experience, I have authored several research articles published in IEEE INFOCOM, GLOBECOM, and ACM CSUR. I also have two submissions submitted to IEEE TKDE, one is under the status of minor revision and another under review.
- My research interests include social network data mining and knowledge discovery, especially focus on information diffusion, information cascades, user behavior analysis, spatial-temporal data modeling, large-scale graph learning, and science of science in various real-world applications.
- I am self-motivated, easy-going, and collaborative.


## Education

2018 - 2021 **M.Eng in Software Engineering**, *University of Electronic Science and Technology of China (UESTC).*

2014 - 2018 **B.Eng in Software Engineering**, *University of Electronic Science and Technology of China (UESTC).*

## Selected Publication

Under review '20 **Xovee Xu**, Fan Zhou, Kunpeng Zhang, and Siyuan Liu
CCGL: Contrastive Cascade Graph Learning
Submitted to *IEEE Transaction on Knowledge and Data Engineering (TKDE)*, under review.

Minor Revision '20 Fan Zhou, **Xovee Xu**, Kunpeng Zhang, Siyuan Liu, and Goce Trajcevski.
CasFlow: Exploring Hierarchical Structures and Propagation Uncertainty for Cascade Prediction
Submitted to *IEEE Transaction on Knowledge and Data Engineering (TKDE)*, under review, minor revision.

CSUR '21 Fan Zhou, **Xovee Xu**, Goce Trajcevski, and Kunpeng Zhang
A Survey of Information Cascade Analysis: Models, Predictions and Recent Advances
*ACM Computing Survey (CSUR)*, 2021.

INFOCOM '20 Fan Zhou, **Xovee Xu**, Kunpeng Zhang, Goce Trajcevski, and Ting Zhong
Variational Information Diffusion for Probabilistic Cascades Prediction
*IEEE International Conference on Computer Communications (INFOCOM)*, Virtual conference, Jul 6-9, 2020, pp. 1618-1627, doi:10.1109/INFOCOM41043.2020.9155349

## Distinction

2020 **INFOCOM 2020 Student Conference Award**, *IEEE ComSoc.*

2020 **Outstanding Graduate**, *UESTC.*

2020 **First Prize Scholarship**, *UESTC.*

## Professional Service & Membership

### Conference/Journal Reviewer

AAAI AAAI Conference on Artificial Intelligence, 2021.

BigData IEEE International Conference on Big Data, 2020.

KDD ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2019.

TNNLS IEEE Transactions on Neural Networks and Learning Systems, 2020.

### Membership

2020 **Graduate Student Member**, *Institute of Electrical and Electronics Engineers (IEEE).*

2020 **Member**, *Association for Computing Machinery (ACM).*

# Projects

2019 - present **UESTC Course [GitHub] [431 stars]**, *Self-motivated.*
A public repository on GitHub that contains review materials of courses (arranged and uploaded by students) of UESTC.

- Open and free platform for students of UESTC to easily access necessary review materials.
- Now more than 30 courses, 400 files included and is still growing.

2018 - present **Technical Blogs (in Chinese) [CSDN]**, *Self-motivated.*
I have written more than 130 articles, topics including artificial intelligence, machine/deep/representation learning, data mining, statistics, mathematics, English tech-article translations, LaTeX, Matplotlib, Python, tutorials, solutions of warnings/errors, etc. Up to now, my blog has received more than 300K page views and ranked 22K among 2M+ CSDN bloggers.

2018 - 2019 **Translation of "Neural Networks and Deep Learning" [CSDN] [GitHub]**, *Self-motivated.*
Simplified Chinese edition of the original online book of author Michael Nielsen.

# Language

Chinese Native speaker *Mandarin; Northern Shaanxi Dialect*

English Fluent *TOEFL iBT: **94**; CET6: **561***

# Intern

Feb – May, 2018 **Software Testing Intern**, *PICC P&C, Chengdu, China*.
*Information Technology Department, Chengdu R&D Sub-centre*, Software testing.

Feb – Aug, 2017 **Web Developer Intern**, *Chengdu Gluxen Tech. Co. Ltd., Chengdu, China*.
Front-end design, development, and testing under Vue.js framework.

# Reference


Dr. Fan Zhou (Supervisor)
Associate Professor
University of Electronic Science and Technology of China
Chengdu, Sichuan, China, 610054
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Dr. Goce Trajcevski (Collaborator)
Harpole-Pentair Associate Professor
Iowa State University
Ames, IA, USA, 50011
Email: gocet25@iastate.edu

Dr. Ting Zhong (Supervisor)
Associate Professor
University of Electronic Science and Technology of China
Chengdu, Sichuan, China, 610054
Email: zhongting@uestc.edu.cn

Dr. Kunpeng Zhang (Collaborator)
Assistant Professor
University of Maryland, College Park
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Email: kpzhang@umd.edu


# Full Publication

[Google Scholar] [ORCID] [DBLP] [publons]

## Refereed Conference Articles

[C1] Fan Zhou, Xin Jing, **Xovee Xu**, Ting Zhong, Goce Trajcevski, and Jin Wu. Continual information cascade learning. In *To be present in IEEE Global Communications Conference (GLOBECOM)*, pages 1–6, 2020.

[C2] Fan Zhou, Xiuxiu Qi, **Xovee Xu**, Jiahao Wang, Ting Zhong, and Goce Trajcevski. Meta-learned user preference for topic participation prediction. In *To be present in IEEE Global Communications Conference (GLOBECOM)*, pages 1–6, 2020.

[C3] Fan Zhou, **Xovee Xu**, Kunpeng Zhang, Goce Trajcevski, and Ting Zhong. Variational information diffusion for probabilistic cascades prediction. In *IEEE International Conference on Computer Communications (INFOCOM)*. Virtual conference, Jul 6-9, 2020, pp. 1618-1627, doi:10.1109/INFOCOM41043.2020.9155349.

[C4] Fan Zhou, Zijing Wen, Ting Zhong, Goce Trajcevski, **Xovee Xu**, and Leyuan Liu. Unsupervised user identity linkage via graph neural networks. In *To be present in IEEE Global Communications Conference (GLOBECOM)*, pages 1–6, 2020.

## Refereed Journal Articles

[J1] Fan Zhou, **Xovee Xu**, Goce Trajcevski, and Kunpeng Zhang. A survey of information cascade analysis: Models, predictions and recent advances. *ACM Computing Surveys (CSUR)*, pages 1–41, 2020.

## Preprints and On-going Articles

[i1] **Xovee Xu**, Ting Zhong, Fan Zhou, Goce Trajcevski, and Xi Wu. Spatial-temporal contrasting for fine-grained urban flow super-resolution. In *Under review*, 2021.

[i2] **Xovee Xu**, Fan Zhou, Ce Li, Goce Trajcevski, Ting Zhong, and Guanyu Zhu. Quantifying the long-term scientific impact via heterogeneous dynamical graph neural network. In *arXiv:2003.12042*, pages 1–6, 2020.

[i3] **Xovee Xu**, Fan Zhou, Kunpeng Zhang, Siyuan Liu, and Goce Trajcevski. CCGL: Contrastive cascade graph learning. In *Submitted to IEEE Transactions on Knowledge and Data Engineering (TKDE), under review*, pages 1–14, 2020.

[i4] Fan Zhou, Ce Li, **Xovee Xu**, Xucheng Luo, and Ting Zhong. HGENA: A hyperbolic graph embedding approach for social network alignment. In *IEEE International Conference on Communications (ICC), under review*, 2021.

[i5] Fan Zhou, **Xovee Xu**, Kunpeng Zhang, Siyuan Liu, and Goce Trajcevski. CasFlow: Exploring hierarchical structures and propagation uncertainty for cascade prediction. *Submitted to IEEE Transactions on Knowledge and Data Engineering (TKDE), under review, minor revision*, pages 1–14, 2020.

[i6] Fan Zhou, Pengyu Wang, **Xovee Xu**, and Goce Trajcevski. Contrastive trajectory learning for tour recommendation. *Submitted to ACM Transactions on Intelligent Systems and Technology, under review*, pages 1–24, 2021.