

Yifang Wang | Curriculum Vitae

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EDUCATION

- **The Hong Kong University of Science and Technology (HKUST)** **Hong Kong**
Department of Computer Science and Engineering, PhD Candidate, Expected in 2023 2018–Now
Cum. CGA: 3.96/4.0
Supervisor: Prof. Huamin Qu
Research Interest: Visual Analytics of Computational Social Science and Anomaly Detection
- **ZheJiang University (ZJU)** **Hang Zhou**
Software Engineering, B.Eng., Graduated in 2018 2014–2018
Cum. GPA: 3.82/4.0 (87.09/100) Rank: 5/83
Supervisor: Prof. Yingcai Wu
Research Interest: Immersive Visual Analytics

RESEARCH & WORKING EXPERIENCE

- **PhD Candidate** **HKUST**
VISLAB Group, CSE Department, Hong Kong, China Sept. 2018–Now
- **Visiting Scholar** **Zhejiang Lab**
Zhejiang Lab, Hangzhou, China Sept. 2020–Apr.2021
- **Visiting Scholar** **ZJU**
ZJUIDG Group, State Key Lab of CAD & CG, Hangzhou, China Nov. 2019–Apr.2020
- **Research Assistant** **ZJU**
ZJUIDG Group, State Key Lab of CAD & CG, Hangzhou, China Sept. 2016–Jun. 2018

PROJECTS

- **AI-powered Visual Analytics Solutions for Communication and Presentation Coaching**
University-Industry Collaboration Programme
 - The project aims to develop AI-based visual analytics techniques and visualization systems to assist both coaches and public speaking trainees to conduct better presentation training. The audio, text, gesture and posture of the presentations is quantitatively analyzed to guide efficient presentation training.
 - In charge of the voice modulation. Detect and adopt a set of rules for identifying acoustic features using labeled data. The features include the change of voice speed (fast/slow), volume (loud/whisper) and pitch, and the detection of silence, pauses and staccato.
 - Developing tools & languages: Javascript, Python, D3, Vuejs, and MongoDB
- **People-Aware Smart City: A People-Centered Integration, Mining and Decision Framework**
Innovation and Technology Support Programme

- The project proposed a people-aware smart city framework, which integrates data extracted continuously from people, discovers people's needs from integrated multi-source data, and finally determines the best resource allocation plans to satisfy people's needs.
 - In charge of the front-end development of the air quality data and financial markets in Hong Kong.
 - Developing tools & languages: Javascript, Python, D3, Vuejs, and MongoDB
- **Pulse: Data-Driven Smart Campus**
- *Innovation and Technology Support Programme*
 - The project aims to promote a smart campus which supports effective and smart decision-makings through the combined power of IoT devices, big data, and AI.
 - In charge of Video Making
 - Developing tools & languages: Javascript, Python, D3, Vuejs, and MongoDB

Publication

- **Yifang Wang**, Hongye Liang, Xinhuan Shu, Jiachen Wang, Ke Xu, Zikun Deng, Cameron Campbell, Bijia Chen, Yingcai Wu, and Huamin Qu. Interactive Visual Exploration of Longitudinal Historical Career Mobility Data. In IEEE Transactions on Visualization and Computer Graphics (TVCG 2021), doi: 10.1109/TVCG.2021.3067200.
- Ke Xu, Jun Yuan, **Yifang Wang**, Claudio Silva, Enrico Bertini. mTSeer: Interactive Visual Exploration of Models on Multivariate Time-series Forecast. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI 2021).
- Ke Xu, Yun Wang, Leni Yang, **Yifang Wang**, Bo Qiao, Si Qin, Yong Xu, Haidong Zhang, Huamin Qu. CloudDet: Interactive Visual Analysis of Anomalous Performances in Cloud Computing Systems. In IEEE Transactions on Visualization and Computer Graphics (TVCG 2020), doi: 10.1109/TVCG.2019.2934613.
- Aoyu Wu, Bon Kyung Ku, Furui Cheng, Xinhuan Shu, Abishek Puri, **Yifang Wang**, Huamin Qu. Pulse: Toward a Smart Campus by Communicating Real-time Wi-Fi Access Data.
- Zhutian Chen, Yijia Su, **Yifang Wang**, Qianwen Wang, Huamin Qu, Yingcai Wu. MARVisT: Authoring Glyph-based Visualization in Mobile Augmented Reality. In IEEE Transactions on Visualization and Computer Graphics (TVCG 2019), doi: 10.1109/TVCG.2019.2892415.
- ZhutianChen, **YifangWang**, TianchenSun, XiangGao, WeiChen, Zhigeng Pan, Huamin Qu, and Yingcai Wu. Exploring the design space of immersive urban analytics. In Visual Informatics, 1(2):132–142, 2017.

TEACHING EXPERIENCES

- **Teaching Assistant Coordinator** HKUST
TAC for CSE Department 2020-2021
- **Teeaching Assistant** HKUST
COMP2711, Discrete Mathematical Tools for Computer Science 2019-2020 FALL Semester
- **Teeaching Assistant** HKUST
COMP4431, Multimedia Computing 2018-2019 SPRING Semester

SCHOLARSHIPS AND PRIZES

- 2018-2014.....
- The CCF(China Computer Federation) Elite Collegiate Award

- Outstanding Graduates in Zhejiang Province Awarded on Undergraduate period
- Outstanding Graduates of Zhejiang University Awarded on Undergraduate period
- Excellent Graduation Thesis of Zhejiang University
- Zhejiang Government Scholarship
- Second-Class Scholarship for Outstanding Students & Outstanding Merits
- Second Prize of the National Talents Training Base
- Excellent Student Awards
- Bosch Scholarship
- The First Prize in 'Miyoshi Cup' Table Tennis Group Competition
- Excellence Award in 'Dream of the Red Chamber' themed Essay Competition