

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, Expected in 2022 *2018–Now*
Cum. CGA: 3.96/4.0
Supervisor: Prof. Huamin Qu (<http://huamin.org/>)
Research Directions: Visual Analytics of Computational Social Science and Digital Humanities
- **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 (<http://www.ycwu.org/>)
Research Directions: Immersive Visual Analytics

RESEARCH & WORKING EXPERIENCE

- **PhD Candidate** **HKUST**
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*

PUBLICATIONS

- **Yifang Wang**, Tai-Quan Peng, Huihua Lu, Haoren Wang, Xiao Xie, Huamin Qu, and Yingcai Wu. Seek for Success: A Visualization Approach for Understanding the Dynamics of Academic Careers. In *IEEE Transactions on Visualization and Computer Graphics (TVCG 2021)*, doi: 10.1109/TVCG.2021.3114790.
- **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.
- **Yifang Wang**, Yang Wang, Yifan Cao, Huamin Qu, Junxiu Tang, and Yingcai Wu. Explore Mindfulness Without Deflection: A Data Art Based On The Book Of Songs. In *IEEE VIS Arts Program (VISAP, in VIS 2021)*, doi: 10.1109/VISAP52981.2021.00014, interactive website.

- 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)*, doi: 10.1145/3411764.3445083.
- 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. In *Workshop on Visualization for Communication, the IEEE Visualization Conference (VIS 2018)*, preprint.
- 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, doi: 10.1016/j.visinf.2017.11.002.

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 in conducting better presentation training. The audio, text, gesture and posture of the presentations are quantitatively analyzed to guide efficient presentation training.
 - In charge of the voice modulation (full-stack development). Detect and adopt a set of rules by machine learning 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 producing.
 - Developing tools & languages: Javascript, Python, D3, Vuejs, and MongoDB

TALKS

- **VIS2021 Conference** **Online, Virtual**
Gave 3 talks on the VIS2021 conference: two full papers and one art paper *Oct. 2021*
- **FDU-VIS Group** **Shanghai, China**
Invited talk of the TVCG2021 paper *May. 2021*

- **CVM2021 Conference**
Invited talk of the TVCG2021 paper

Qingdao, China
Apr. 2021

TEACHING EXPERIENCES

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

SERVICE

- **Paper Review**
2021TVCG/CG&A/PacificVis, 2020-2021VIS/CHI/ChinaVis, 2019VIS Short Paper *2019-Now*
- **Group Promotion**
Core Member of the maintainance of Wechat Official Accounts and Blog of VisLab *2021-Now*

SELECTED SCHOLARSHIPS AND PRIZES

2018-2014.....

- The CCF (China Computer Federation) Elite Collegiate Award
- Outstanding Graduates in Zhejiang Province (Undergraduate)
- Outstanding Graduates of Zhejiang University (Undergraduate)
- Excellent Graduation Thesis of Zhejiang University (Undergraduate)
- Zhejiang Government Scholarship
- Excellent Student Awards