

# 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 Digital Humanities and Computational Social Science
- **ZheJiang University (ZJU)** **HangZhou**  
*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** **ZJU**  
*ZJUIDG Group, State Key Lab of CAD & CG, Hangzhou, China* Dec. 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**

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- 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, vol. 26, no. 1, pp. 1107-1117, Jan. 2020, doi: 10.1109/TVCG.2019.2934613.
- 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, 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**

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| <b>Teeaching Assistant</b>                                   | <b>HKUST</b>              |
| ○ COMP2711, Discrete Mathematical Tools for Computer Science | 2019-2020 FALL Semester   |
| <b>Teeaching Assistant</b>                                   | <b>HKUST</b>              |
| ○ COMP4431, Multimedia Computing                             | 2018-2019 SPRING Semester |

## **SCHOLARSHIPS AND PRIZES**

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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 Scholoarship
- The First Prize in 'Miyoshi Cup' Table Tennis Group Competition
- Excellence Award in 'Dream of the Red Chamber' themed Essay Competition