

# TONG WAI

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## RESEARCH INTEREST

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Data Visualization, Augmented Reality, Human Computer Interaction

## EDUCATION

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**The Hong Kong University of Science and Technology, Hong Kong** *09/2018 - Present*  
Ph.D. candidate in Department of Computer Science and Engineering  
Advisors: Prof. Huamin Qu and Prof. Ting Chuen Pong

**The Hong Kong University of Science and Technology, Hong Kong** *09/2014 - 08/2018*  
B.Eng. in Department of Computer Science and Engineering

## PUBLICATIONS

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**MobileVisFixer: Tailoring Web Visualizations for Mobile Phones Leveraging an Explainable Reinforcement Learning Framework**

Aoyu Wu, **Wai Tong**, Tim Dwyer, Bongshin Lee, Petra Isenberg, and Huamin Qu  
*IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 2020

**Augmenting Static Visualizations with PapARVis Designer**

Zhutian Chen, **Wai Tong**, Qianwen Wang, Benjamin Bach, and Huamin Qu  
*ACM Conference on Human Factors in Computing Systems (CHI)*, 2020

## PROJECTS

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**Immersive Storytelling for HKUST 30th Anniversary** *09/2018 - Present*

This project utilizes Augmented Reality (AR) and Data Visualization techniques to introduce the history of HKUST for 30th Anniversary. An AR website is built and augmented in campus for students and visitors to take a “walk along memory lane”, where the timeline of important events is visualized along the corridor in the reality. This AR experience allows the audiences to engage to an immersive data story of 30 year history of HKUST.

**Pulse of HKUST** *09/2018 - Present*

This project promotes a smart campus in HKUST by the combination of IoT device, big data and data visualization. I had developed an interactive visualization system and a mobile web application using Vue.js and d3.js. This project won the Student Innovation Gold Award in HKICT 2019 and a Merit award in the R&D category in APICTA 2019. Moreover, it is also selected as one of the projects in the HKUST Sustainable Smart Campus as a Living Lab.

**UStThing** *12/2017 - 12/2018*

UStThing is a mobile app for HKUST community that provide more convenience access to campus information. I had used Kotlin with Android Studio work on the enhancement of the Android app. Moreover, it is also selected as one of the projects in the HKUST Sustainable Smart Campus as a Living Lab.

## WORK EXPERIENCES AND INTERNSHIPS

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**HKUST Entrepreneurship Center** *06/2018 - 08/2018*

*Developer (Summer Internship)*

- Performed backend development for a booking system website using PHP

**Mirum Hong Kong** *06/2017 - 08/2017*

*Developer (Summer Internship)*

- Built a content management system for a website using TeamSite and LiveSite.
- Performed backend development of a website using Java

## TECHNICAL STRENGTHS

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<b>Programming</b>	JavaScript (Vue.js, D3.js, Node.js, Typescript), C# (Unity3D), Python (Flask, Pandas)
<b>Operating system</b>	Windows, Linux