

Zhutian Chen | Curriculum Vitae

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RESEARCH INTERESTS

Data Visualization, Human-Computer Interaction, Augmented Reality, Creativity Support Tools.

To help people leverage the best of both physical and digital worlds, I develop techniques and tools to facilitate the creation of information visualizations in and for AR environments, by combining methods from visualization, computer vision, computer graphics, and human-computer interaction.

EDUCATION

- 09/2015 - PRESENT **Hong Kong University of Science & Technology**, Kowloon, Hong Kong
Ph.D. Candidate in Computer Science & Engineering
Advisor: Huamin Qu
Awarded Hong Kong Ph.D. Fellowship
- 09/2011 - 07/2015 **South China University of Technology**, Guangzhou, China
B.S. in Software Engineering
Advisor: Yi Cai
Awarded Pacemaker to Merit Student, the Highest Honor (top 0.1%)

POSITIONS

- 09/2015 - PRESENT **Hong Kong University of Science & Technology**, Kowloon, Hong Kong
Graduate Researcher - VISLab
Advisor: Huamin Qu
- 09/2019 - 12/2019 **The University of Edinburgh**, Edinburgh, UK
Research Visiting Student - Design Informatics
Advisor: Benjamin Bach
- 08/2017 - 11/2017 **ByteDance**, Beijing, China
Software Engineering Intern - Big Data Platform Group
Advisor: Liang Tang
- 06/2017 - 08/2017 **FIT Future Information Technology**, Beijing, China
Research Intern - SLAM Group
Advisor: Kaidi Zhou
- SPRING/2015, 2017 **State Key Lab of CAD&CG**, Hangzhou, China
Research Assistant - ZJU VIS
Advisor: Yingcai Wu
- 06/2014 - 01/2015 **Microsoft Research Asia**, Beijing, China
Research Intern - Internet Graphics Group
Advisor: Yingcai Wu

PEER REVIEWED PUBLICATIONS

- 2019 C5, J5 **Zhutian Chen**, Yun Wang, Qianwen Wang, Yong Wang, and Huamin Qu. "Towards Automated Infographic Design: Deep Learning-based Auto-Extraction of Extensible Timeline." *IEEE Transactions on Visualization and Computer Graphics (InfoVis'19)*.
- C4, J4 **Zhutian Chen**, Wei Zeng, Zhiguang Yang, Lingyun Yu, Chi-Wing Fu, and Huamin Qu. "LassoNet: Deep Lasso-Selection of 3D Point Clouds." *IEEE Transactions on Visualization and Computer Graphics (SciVis'19)*.
- 2018 J3 **Zhutian Chen**, Yijia Su, Yifang Wang, Qianwen Wang, Huamin Qu, Yingcai Wu. "MARVisT: Authoring Glyph-based Visualization in Mobile Augmented Reality." *IEEE Transactions on Visualization and Computer Graphics (TVCG)*.
- 2017 J2 **Zhutian Chen**, Yifang Wang, Tianchen Sun, Xiang Gao, Wei Chen, Zhigeng Pan, Huamin Qu, Yingcai Wu. "Exploring the Design Space of Immersive Urban Analytics." *Journal of Visual Informatics (JVI)*.
- J1 Yingcai Wu, **Zhutian Chen**, Guodao Sun, Xiao Xie, Nan Cao, Shixia Liu, Weiwei Cui. "StreamExplorer: A Multi-Stage System for Visually Exploring Events in Social Streams." *IEEE Transactions on Visualization and Computer Graphics (TVCG)*.
- W1 **Zhutian Chen**, Huamin Qu, Yingcai Wu. "Immersive Urban Analytics through Exploded Views." *IEEE VIS 2017 Workshop on Immersive Analytics*.
- 2016 C3 Yun Wang, **Zhutian Chen**, Quan Li, Xiaojuan Ma, Qiong Luo, Huamin Qu. "Animated Narrative Visualization for Video Clickstream Data." *ACM SIGGRAPH ASIA Visualization Symposium (SIGGRAPH ASIA)*.
- C2 Mingqian Zhao, **Zhutian Chen**, Ke Lu, Chaoran Li, Huamin Qu, Xiaojuan Ma. "Blossom: Design of a Tangible Interface for Improving Intergenerational Communication for the Elderly." *ACM Interactive Technology and Ageing Populations (ITAP)*.
- C1 Yun Wang, Tongshuang Wu, **Zhutian Chen**, Qiong Luo, Huamin Qu. "STAC: Enhancing Stacked Graphs for Time Series Analysis." *IEEE Pacific Visualization Symposium (PacificVis)*.

AWARDS AND HONORS

- 2019 - 2020 **Overseas Research Award**
Hong Kong University of Science & Technology
- 08/2016 **First Prize of the Design Thinking**
China Academy of Art, Hong Kong University of Science & Technology
- 2015 - 2019 **Hong Kong Ph.D. Fellowship (HKPFS)**
Research Grants Council of Hong Kong
- 01/2015 **Award of Excellence**
Microsoft Research Asia
- 2013 - 2014 **Pacemaker to Merit Student**
South China University of Technology, the highest honor (top 0.1%)

2013 - 2014	National Scholarship Ministry of Education of the People's Republic of China
04/2014	Meritorious Winner of Interdisciplinary Contest in Modeling Consortium for Mathematics and Its Applications, USA
2013 - 2014	Tencent Technology Excellence Scholarship Tencent Holdings Limited
2012 - 2013	National Scholarship Ministry of Education of the People's Republic of China
2011 - 2012	National Scholarship for Encouragement Ministry of Education of the People's Republic of China

INVITED TALKS

07/2019	Towards Futuristic Visual StoryTelling: Authoring Data-Driven Infographics in Augmented Reality Zhejiang Lab, Hangzhou, China
10/2018	StreamExplorer: A Multi-Stage System for Visually Exploring Events in Social Streams IEEE VIS'18, Berlin, Germany
12/2016	Animated Narrative Visualization for Video Clickstream Data Visualization Symposium at ACM SIGGRAPH ASIA'16, Macao, China

TEACHING

FALL/2018	Teaching Assistant , COMP2711: Discrete Mathematical Tools for Computer Science, HKUST.
SPRING/2018	Teaching Assistant , COMP4901f: Data Visualization, HKUST.

SERVICE

2019	Paper Reviewer , TOG (ACM Transactions on Graphics)
2019	Paper Reviewer , VRST (ACM Virtual Reality Software and Technology)
2019	Paper Reviewer , ChinaVis
2019	Paper Reviewer , VIS (IEEE Visualization Conference)
2018	Paper Reviewer , VIS (IEEE Visualization Conference)

REFERENCE

Huamin Qu

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Yingcai Wu

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