

# Siwei Fu

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## Education

2014

**Ph.D. Degree in Computer Science**, *The Hong Kong University of Science and Technology (HKUST)*, Hong Kong.

- Supervisor: Prof. Huamin Qu
- PhD Qualifying Exam (PQE): A Survey on Visual Text Analytics
- Research Interest: Visual Text Analytics, MOOC Analysis, Digital Social Science

2013

2014

**M.Sc. Degree in Information Technology**, *The Hong Kong University of Science and Technology (HKUST)*, Hong Kong.

- Supervisor: Prof. Huamin Qu
- Independent Project Report: Visualizing Video Clickstream Data from Massive Open Online Courses [7]
- Research Interest: MOOC Analysis

2008

2012

**B.Sc. Degree in Information and Computational Science**, *Sun Yat-sen University (SYSU)*, Guangzhou, China.

- Supervisor: Prof. Wei Feng
- Thesis: Solve Helmholtz-PML Equation with Finite-difference Approximation in Frequency-space Domain

## Research / Working Experience

2017.10–2018.04

**Research Visiting Student**, *UC Davis*, Davis, USA.

- Supervisor: Prof. Kwan-Liu Ma
- Propose novel designs for investigating spatial-temporal correlations in clickstream data. Here, “spatial” refers to topic space rather than physical space.
- Skills: D3.js, Vue.js, Webpack, Node.js, MongoDB

2017.06–2017.08

**Research Intern**, *FX Palo Alto Laboratory*, Palo Alto, USA.

- Supervisor: Dr. Jian Zhao
- Design and implement an interactive visualization system for summarizing contents from enterprise messaging platforms such as Slack.
- Skills: D3.js, Vue.js, Webpack, Node.js, MongoDB

2016.01–2016.04

**Research Intern**, *Microsoft Research Asia*, Beijing, China.

- Supervisor: Dr. Weiwei Cui
- Design and implement a visual analytics system for discovering the correlation between tree structure and personal traits of ancestors in over ten thousands family trees.
- Skills: D3.js, Vue.js, Webpack, Node.js, MongoDB

2014.09–2016.01

**Research Assistant**, *Computer Science and Engineering, HKUST*, Hong Kong.

- Supervisor: Prof. Huamin Qu
- Finish a survey on visual text analytics.
- Skills: Latex

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## Major Awards

- 2016 • **Award of Excellence**, *Microsoft Research Asia, Stars of Tomorrow*, Beijing, China.
- 2015 • **Honorable Mention for Good Cross-Visualization Interactions**, *In Proceedings of IEEE Symposium on Visual Analytics Science and Technology (VAST Challenge)*, Chicago, USA.
- 2015 • **Merit**, *Asia Pacific ICT Alliance Awards (APICTA Awards)*, Colombo, Sri Lanka.
- 2015 • **Silver Award in Best Innovation**, *Hong Kong ICT Awards*, Hong Kong.
- 2013 • **Excellent in Thesis Defense**, *University Innovative and Experimental Projects (No.1055811021)*, Guangzhou, China.
- 2011 • **Third Class Winner**, *National Mathematical Modeling Competition*, Guangzhou, China.
- 2010 • **Third Class Winner**, *National Mathematical Modeling Competition*, Guangzhou, China.

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## Publications

- [1] **Siwei Fu**, Yong Wang, Yi Yang, Qingqing Bi, Fangzhou Guo, and Huamin Qu. Visforum: A visual analysis system for exploring user groups in online forums. *ACM Transactions on Interactive Intelligent Systems (ACM TiiS)*, To appear.
- [2] **Siwei Fu**, Jian Zhao, Hao-Fei Cheng, Haiyi Zhu, and Jennifer Marlow. T-cal: Understanding team conversational data with calendar-based visualization. In *Proceedings of the 36th Annual ACM Conference on Human Factors in Computing Systems*, Conditionally Accepted by CHI'18.
- [3] **Siwei Fu**, Hao Dong, Weiwei Cui, Jian Zhao, and Huamin Qu. How do ancestral traits shape family trees over generations? *IEEE Transactions on Visualization and Computer Graphics*, 24(1):205–214, Jan 2018.
- [4] **Siwei Fu**, Jian Zhao, Weiwei Cui, and Huamin Qu. Visual analysis of mooc forums with iforum. *IEEE Transactions on Visualization and Computer Graphics*, 23(1):201–210, Jan 2017.
- [5] Abishek Puri, Dongyu Liu, Shaoyu Chen, **Siwei Fu**, Tianyu Wang, Yeukylin Chan, and Huamin Qu. Parkvis: A visual analytic system for anomaly detection in dinofun world. In *Visual Analytics Science and Technology (VAST Poster)*, *IEEE Symposium on*, pages 123–124, Oct 2015.
- [6] Conglei Shi, **Siwei Fu**, Qing Chen, and Huamin Qu. Vismoooc: Visualizing video clickstream data from massive open online courses. In *Visualization Symposium (PacificVis)*, *2015 IEEE Pacific*, pages 159–166, 2015.
- [7] Conglei Shi, **Siwei Fu**, Qing Chen, and Huamin Qu. Vismoooc: Visualizing video clickstream data from massive open online courses. In *Visual Analytics Science and Technology (VAST Poster)*, *IEEE Symposium on*, pages 277–278, 2014.
- [8] **Siwei Fu**, Taiteng Fang, and Liping Ye. Design and implementation of resume delivery system. *Modern Computer*, 1:70–74, 2012.

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## Invited Talks

2017

How do ancestral traits shape family trees over generations?, *Proceedings of VAST*, Phoenix, USA.

2016

Visual Analysis of MOOC Forums with iForum, *Proceedings of VAST*, Baltimore, USA.

2014

E-learning in the 21th Century Higher Education: On-Line Teaching, Blended Learning, and Flipped Classroom, *ShanTou University*, ShanTou, China.

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## Teaching Experience

2015

Teaching Assistant, *COMP3021: Java Programming*, HKUST.

2015

Teaching Assistant, *COMP5631: Cryptography and Security*, HKUST.

2014

Teaching Assistant, *COMP2012: Object-Oriented Programming and Data Structures*, HKUST.

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## Community Involvement

2018

Reviewer, *ACM CHI*.

2017

Reviewer, *IEEE Visual Analytics Science and Technology (VAST)*.

2017

Reviewer, *IEEE Pacific Visualization (PacificVis)*.

2016

Reviewer, *China Visualization and Visual Analytics Conference (China Vis)*.

2016

Reviewer, *KDD 2016 Workshop on Interactive Data Exploration and Analytics (IDEA)*.

2016

Reviewer, *International Symposium on Graph Drawing & Network Visualization*.

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## Skills and Languages

Programming	Proficient in Java, C#, Python and JavaScript Familiar with R, C++
Visualization	D3, WebGL, Gephi
Tools	MongoDB, Node, MySQL, Matlab
Language	Chinese Mandarin (Native) English (Fluent, working language)