

# Yanhong Wu

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## Education

- 2014.9–Present **Ph.D. in Computer Science**, *Department of Computer Science and Engineering, Hong Kong University of Science and Technology*, Hong Kong.
- Supervisor: Prof. Huamin Qu
  - Research Interests: **Big Data Analytics, Information Visualization, Network Visualization, and Social Network Analysis**
- 2009.9–2013.6 **Bachelor of Engineering**, *Software School, Fudan University*, Shanghai, China.
- Selected Courses: Algorithm&Data Structure Design, Operating Systems, Compilers, Computer Networks, Database Design, Web Technologies, Software Engineering, etc.

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## Research / Working Experience

- 2016.5–Present Visiting Scholar, **Aviz Team, INRIA**, Paris, France.
- Supervisor: Prof. Jean-Daniel Fekete
  - Developed a progressive large network analytics system that aims to support 1 million nodes.
  - Programming: **Python, Javascript, WebGL, D3, React**
- 2015.6–2015.9 Research Intern, **Microsoft Research Asia**, Beijing, China.
- Mentor: Dr. Weiwei Cui
  - Analyzed how different graph sampling strategies affect network analysis in visualization.
  - Programming: **Python, Javascript, WebGL, D3, AngularJS**
- 2013.10–2014.8 Research Assistant, **Hong Kong University of Science and Technology**, Hong Kong.
- Industry collaborator: Huawei Technologies Co. Ltd.
  - Led designing and implementing GraphVis, an online large graph visual analytics system.
  - Programming: **Java, Javascript, Scala, Spark, WebGL, D3, AngularJS**
- 2013.7–2013.9 Software Engineer, **Douban Inc.**, Beijing, China.
- Developed Douban's internal project hosting service CODE: an extended GitHub-like system.
  - Programming: **Python, MySQL, JavaScript, Git, Elasticsearch**
- 2013.2–2013.6 System Engineer Intern, **eBay Engineering and Research Center**, Shanghai, China.
- Developed eBay's cloud service system OpenStratus based on OpenStack.
  - Programming: **Java, Shell Script, OpenStack, KVM**
- 2011.2–2012.10 Undergraduate Researcher, **Fudan University**, Shanghai, China.
- Advisor: Prof. Haibo Chen
  - Participated in developing ReEmu: a scalable parallel full system emulator.
  - Programming: **C, Ruby, Shell Script, QEMU**

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## Awards and Honors

- 2016 **ACM SIGCHI Honorable Mention Award of Best Paper.**
- 2016 **HKUST Overseas Research Award.**
- 2015 **Microsoft Research Asia Fellowship Nomination Award.**
- 2015 **Microsoft Research Asia Stars of Tomorrow (Award of Excellence).**
- 2012 **Outstanding Student of Fudan University.**
- 2011-2013 **People's Scholarship for three times.**
- 2011 **Championship of the 4th IShamrock Software Design Competition.**
- 2007 **First Prize in National Olympiad in Informatics in Provinces.**

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## Publications

**Yanhong Wu**, Naveen Pitipornvivat, Jian Zhao, Sixiao Yang, Guowei Huang, and Huamin Qu. egoslider: Visual analysis of egocentric network evolution. In *IEEE Transactions on Visualization and Computer Graphics (Proceedings of VAST)*, October 2015.

**Yanhong Wu**, Wenbin Wu, Sixiao Yang, Youliang Yan, and Huamin Qu. Interactive visual summary of major communities in a large network. In *IEEE Pacific Visualization Symposium (PacificVis)*, April 2015.

Qiaomu Shen, Tongshuang Wu, Haiyan Yang, **Yanhong Wu**, Huamin Qu, and Weiwei Cui. Nameclarifier: A visual analytics system for author name disambiguation. In *IEEE Transactions on Visualization and Computer Graphics (Proceedings of VAST)*, October 2016.

**Yanhong Wu**, Nan Cao, Daniel Archambault, Qiaomu Shen, Huamin Qu, and Weiwei Cui. Evaluation of graph sampling: A visualization perspective. In *IEEE Transactions on Visualization and Computer Graphics (Proceedings of InfoVis)*, October 2016.

Xun Zhao, **Yanhong Wu**, Weiwei Cui, Xinnan Du, Yuan Chen, Yong Wang, Dik Lun Lee, and Huamin Qu. Skylens: Visual analysis of skyline on multi-dimensional data. In *IEEE Transactions on Visualization and Computer Graphics (Proceedings of VAST)*, October 2017.

Jian Zhao, Michael Glueck, Fanny Chevalier, **Yanhong Wu**, and Azam Khan. Egocentric analysis of dynamic networks with egolines. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI)*, April 2016 (**Best Paper Honorable Mention**).

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## Teaching Experience

2016 Fall **Information Visualization**, *Teaching Assistant*, HKUST.

2016 Fall **Introduction to Computer Science**, *Teaching Assistant*, HKUST.

2015 Fall **Java Programming**, *Teaching Assistant*, HKUST.

2015 Spring **Introduction to Python Programming**, *Teaching Assistant*, HKUST.

2013 Spring **Distributed Systems**, *Teaching Assistant*, Fudan University.

2012 Fall **Operating Systems**, *Teaching Assistant*, Fudan University.

2012 Spring **Computer System Engineering**, *Teaching Assistant*, Fudan University.

2011 Fall **Introduction to Computer Systems II**, *Teaching Assistant*, Fudan University.

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## Invited Talks

2016.10 **On the Scalability of Large Graph Visualization**, *VIS Doctoral Colloquium*, U.S..

2016.10 **Evaluation of Graph Sampling: A Visualization Approach**, *VIS*, Baltimore, U.S..

2015.11 **TelCoVis: Visual Exploration of Co-occurrence in Urban Human Mobility Based on Telco Data**, *SIGGRAPH Asia*, Kobe, Japan.

2015.10 **EgoSlider: Visual Analysis of Egocentric Network Evolution**, *VIS*, Chicago, U.S..

2015.4 **Interactive Visual Summary of Major Communities in a Large Network**, *PacificVis*, Hangzhou, China.

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## Community Involvement

Reviewer IEEE Transactions on Visualization and Computer Graphics (TVCG), 2016

IEEE Transactions on Interactive Intelligent Systems (TiiS), 2017

IEEE Transactions on Multimedia (TMM), 2016

IEEE VIS (VAST, InfoVis, and SciVis) Conference, 2016, 2017

IEEE Eurographics/VGTC Symposium on Visualization (EuroVis), 2016, 2017

International Symposium on Graph Drawing & Network Visualization (GD), 2016, 2017

IEEE Pacific Visualization (PacificVis) Symposium, 2016, 2017

China Visualization and Visual Analytics Conference (ChinaVis), 2016  
IEEE VAST Challenge, 2015, 2016, 2017

Student Volunteer SIGGRAPH Asia, Kobe, Japan, 2015

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## Skills

Programming Proficient in Python, Java, C, and JavaScript  
Familiar with R, Scala, Ruby, C# and OCaml  
Tools MySQL, MongoDB, Spark, Hadoop  
Visualization D3, WebGL, Matplotlib

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## Languages

Mandarin Native  
English Fluent

*Mother tongue*  
*Professional working proficiency*