

# Yanhong Wu

## 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: **Information Visualization, Network Visualization, Social Network Analysis**, and **Human-Computer Interaction**
- 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.

## Research / Working Experience

- 2015.6–2015.9 Research Intern, **Microsoft Research Asia**, Beijing, China.
- Mentor: Dr. Weiwei Cui
  - Evaluated how different graph sampling strategies affect human perception in network visualization.
  - Programming: **Python, WebGL, D3, AngularJS**
- 2013.10–2014.8 Research Assistant, **Hong Kong University of Science and Technology**, Hong Kong.
- Led designing and implementing GraphVis, an online large graph visual analytics system.
  - Programming: **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.
  - Challenge: Keeping a high availability during rapid development iterations
  - Programming: **Python, MySQL, JavaScript, Git, Elasticsearch**
- 2013.2–2013.6 System Engineer Intern, **eBay Engineering and Research Center**, Shanghai, China.
- Developed and profiled eBay's cloud service system OpenStratus based on OpenStack.
  - Challenge: Debugging the new and unstable features of OpenStratus
  - Programming: **Java, Shell Script, OpenStack, KVM**
- 2011.2–2012.10 Undergraduate Researcher, **Fudan University**, Shanghai, China.
- Participated in developing ReEmu: a scalable parallel full system emulator (published in PPOPP'13).
  - Challenge: Navigating in a large code-base and parallelizing a mature open-sourced software
  - Programming: **C, Ruby, Shell Script, QEMU**

## Awards and Honors

- 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**.

## 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 2015)*, 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.

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)*, 2016 (**Best Paper Honorable Mention**).

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## Projects

- 2011 **Saber: A Multi-microblog Client Application**, *Competition Project*.
  - Developed a multi-microblog client application with more than 30k lines of codes within 1 month.
  - Awarded as the **championship** among 30+ teams in the 4th IShamrock Software Competition.
  - Programming: **C#, WPF, OAuth 2.0**
- 2011 **Utopia: An Exokernel Operating System**, *Independent Project*.
  - Designed and extended an exokernel-like operating system, based on MIT's open-sourced JOS.
  - Programming: **C, Assembly, Shell Script**
- 2011 **APSys'11 Conference Registration System**, *Independent Project*.
  - Implemented an online registration system integrated with Fudan University's online payment system.
  - Programming: **PHP, MySQL, JavaScript**
- 2010 **Foison Credit Online Education System**, *Team Project*.
  - Developed an online education system for Shanghai Foison Credit Rating Co. Ltd.
  - Programming: **Java EE, Spring, Struts, Hibernate**

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## Teaching Experience

- 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

- 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**, *IEEE VIS*, Chicago, IL.
- 2015.4 **Interactive Visual Summary of Major Communities in a Large Network**, *PacificVis*, Hangzhou, China.

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## Community Involvement

- Reviewer IEEE VIS (VAST, InfoVis, and SciVis) Conference, 2016  
IEEE Eurographics/VGTC Symposium on Visualization (EuroVis), 2016  
IEEE Pacific Visualization (PacificVis) Symposium, 2016  
IEEE VAST Challenge, 2015
- Student Volunteer SIGGRAPH Asia, Kobe, Japan, 2015

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## Skills and Languages

- 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
- Languages Chinese Mandarin (native), English (professional working proficiency)