

Yanhong Wu

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Education

- 2014.9–2017.8 **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: **Visual Analytics, Graph Mining, and Deep Learning**
- 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

- 2018.3–present Research Scientist, **Visa Research**, CA, U.S.
- Working on fraud detection and analysis with deep learning in financial domain.
 - Programming: **Python, TensorFlow, SQL, Hadoop, Spark**
- 2017.8–2018.3 Post-doctoral Researcher, **IBM T.J. Watson Research Center**, NY, U.S.
- Worked on anomaly detection and visualization in financial domain.
 - Programming: **Python, Javascript, D3, SQL, Graph Databases**
- 2016.5–2016.9 Visiting Scholar, **Aviz Team, INRIA**, Paris, France.
- Supervisor: Prof. Jean-Daniel Fekete
 - Developed a progressive large network analytics system that aims to support one million nodes.
 - Programming: **Python, Javascript, WebGL, D3, React**
- 2015.6–2015.9 Research Intern, **Microsoft Research Asia**, Beijing, China.
- Mentor: Dr. Weiwei Cui
 - Developed various sampling algorithms to alleviate the scalability problem in large graph 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 developing GraphVis, an online graph visual analytics system for telecommunication services.
 - Programming: **Java, Javascript, Scala, Spark, WebGL, D3, AngularJS**
- 2013.7–2013.9 Software Engineer, **Douban Inc.**, Beijing, China.
- Developed Douban's code 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 Research Assistant, **Fudan University**, Shanghai, China.
- Advisor: Prof. Haibo Chen
 - Participated in developing ReEmu: a scalable parallel full system emulator.
 - Programming: **C, Ruby, Shell Script, QEMU**

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.

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 (Best Paper Honorable Mention)*, April 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.

Po-Ming Law, Rahul C. Basole, and **Yanhong Wu**. Duet: Helping data analysis novices conduct pairwise comparisons by minimal specification. In *IEEE Transactions on Visualization and Computer Graphics (Proceedings of VAST)*, October 2018.

Po-Ming Law, **Yanhong Wu**, and Rahul C. Basole. Segue: Overviewing evolution patterns of egocentric networks by interactive construction of spatial layouts. In *IEEE Conference on Visual Analytics Science and Technology (VAST)*, October 2018.

Yong Wang, Hammad Haleem, Conglei Shi, **Yanhong Wu**, Xun Zhao, Siwei Fu, and Huamin Qu. Towards easy comparison of local businesses using online reviews. In *Computer Graphics Forum (Proceedings of EuroVis)*, June 2018.

Xun Zhao, **Yanhong Wu**, Dik Lun Lee, and Weiwei Cui. iforest: Interpreting random forests via visual analytics. In *IEEE Transactions on Visualization and Computer Graphics (Proceedings of VAST)*, October 2018.

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.**

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 Fall **Introduction to Multimedia Technologies**, *Teaching Assistant*, Fudan University.
- 2012 Spring **Computer System Engineering**, *Teaching Assistant*, Fudan University.
- 2011 Fall **Introduction to Computer Systems II**, *Teaching Assistant*, Fudan University.

Invited Talks

- 2018.10 **iForest: Interpreting random forests via visual analytics**, *Bay Area Visual Analytics Symposium*, U.S..
- 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.

Skills

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

Community Involvement

- PC Member IEEE Pacific Visualization (PacificVis) Symposium - Visualization Notes, 2018, 2019
Visualization in Data Science (VDS at IEEE VIS), 2018
- Reviewer IEEE Transactions on Visualization and Computer Graphics (TVCG), 2016, 2017, 2018
IEEE Transactions on Knowledge and Data Engineering(TKDE), 2018
IEEE Transactions on Multimedia (TMM), 2016
ACM Transactions on Intelligent Systems and Technology (TIST), 2017, 2018
ACM Transactions on Interactive Intelligent Systems (TiiS), 2016, 2017
ACM Conference on Human Factors in Computing Systems (CHI), 2018, 2019
IEEE VIS (VAST, InfoVis, and SciVis) Conference, 2016, 2017, 2018
IEEE Eurographics/VGTC Symposium on Visualization (EuroVis), 2016, 2017
IEEE International Conference on Big Data, 2017
IEEE Pacific Visualization Symposium (PacificVis) , 2016, 2017, 2018, 2019
ACM International Conference on Intelligent User Interfaces (IUI), 2019
International Symposium on Graph Drawing & Network Visualization (GD), 2016, 2017
Journal of Visual Languages and Computing, 2018
China Visualization and Visual Analytics Conference (ChinaVis), 2016, 2018
IEEE VAST Challenge, 2015, 2016, 2017
- Student Volunteer SIGGRAPH Asia, Kobe, Japan, 2015

Languages

- Mandarin Native *Mother tongue*
- English Fluent *Professional working proficiency*