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EDUCATION

B.E. in Electronic Science and Technology, Nanjing University, China 2011 – 2015
• Ranking: **1/217**, Thesis: FPGA-based Design of FFT & FIR

Ph.D. in Electronic and Computer Engineering, HKUST, Hong Kong 2015 – Now
• Research Interest: Visual Analytics, Anomaly Detection, Healthcare

HONORS & AWARDS

Best Paper Honorable Mention Award, ACM CHI Conference 2017, 2018

Excellent Student of Nanjing University, Nanjing University 2015

First Prize of Red Sun Scholarship, (for 30 of students in Nanjing University) 2014

Baosteel Scholarship, (For 2 of Sophomores in Nanjing University) 2013

National Scholarship, Ministry of Education of the People's Republic of China 2012

PUBLICATIONS

[C6, J4] [Ke Xu](#), Yun Wang, Leni Yang, Yifang Wang, Bo Qiao, Qin Si, Yong Xu, Haidong Zhang, Huamin Qu. **CloudDet: Interactive Visual Analysis of Anomalous Performances in Cloud Computing Systems**. IEEE Transactions on Visualization and Computer Graphics (VAST'19: Proceedings of the IEEE Visual Analytics Science and Technology), doi: 10.1109/TVCG.2019.2934, IEEE, 2019.

[C5, J3] Yun Wang, Zhida Sun, Haidong Zhang, Weiwei Cui, [Ke Xu](#), Xiaojuan Ma, Dingmei Zhang. **DataShot: Automatic Generation of Fact Sheet from Tabular Data**. IEEE Transactions on Visualization and Computer Graphics (InfoVis'19: Proceedings of the IEEE Information Visualization), doi: 10.1109/TVCG.2019.2934398, IEEE, 2019.

[C4] Xing Mu*, [Ke Xu](#)*, Qing Chen, Fan Du, Yun Wang, Huamin Qu. **MOOCad: Visual Analysis of Anomalous Learning Activities in Massive Open Online Courses**. EuroVis'19: Proceedings of The Eurographics Conference on Visualization, pages: 91-95, doi: 10.2312/evs.20191176, EuroVis, 2019.

[C3, J2] [Ke Xu](#), Meng Xia, Xing Mu, Yun Wang, Nan Cao. **EnsembleLens: Ensemble-based Visual Exploration of Anomaly Detection Algorithms with Multidimensional Data**. IEEE Transactions on Visualization and Computer Graphics (VAST'18: Proceedings of the IEEE Visual Analytics Science and Technology), vol. 25, no. 1, pp. 109-119, doi: 10.1109/TVCG.2018.2864825, IEEE, 2018.

[C2] [Ke Xu](#), Shunan Guo, Nan Cao, David Gotz, Aiwon Xu, Huamin Qu, Zhenjie Yao, Yixin Chen. **ECGLens: Interactive Visual Exploration of Large Scale ECG Data for Arrhythmia Detection**. CHI'18: Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, p. 663, doi: 10.1145/3173574.3174237, ACM, 2018 (*Best Paper Honorable Mention*).

[C1, J1] Shunan Guo, [Ke Xu](#), Rongwen Zhao, David Gotz, Hongyuan Zha, Nan Cao. **EventThread: Visual Summarization and Stage Analysis of Event Sequence Data**. IEEE Transactions on Visualization and Computer Graphics (VAST'18: Proceedings of the IEEE Visual Analytics Science and Technology), vol. 24, no. 1, pp. 56-65, doi: 10.1109/TVCG.2017.2745320, IEEE, 2017.

RESEARCH EXPERIENCE

Visiting Scholar, Harvard University, Boston, U.S. May 2019 – Aug 2019
• Working on the visualization part for a biomedical project for enhancing Assisted Reproductive Technologies

Intern, Microsoft Research Asia, Beijing, China Jan 2019 – May 2019
• Developed CloudDet, an interactive system for visually analyzing anomalous performances in large cloud computing system

- Cooperated in designing DataShot, a visualization system for automatically generate the poster with sheet data

Ph.D. Candidate, HKUST, Hong Kong

Sept 2015 – Now

- Developed EnsembleLens, a visual system to evaluate different anomaly detection algorithms based on ensemble analysis
- Conducted data visualization projects for analyzing Hong Kong weather, elderly wandering and asset management
- Designed the digital circuit part for a 10Gbps Phase Interpolated based half-rate CDR in 65nm CMOS

Visiting Student, Tongji University, Shanghai, China

Feb 2017 – Sept 2017

- Designed ECGLens, a visualization tool for Arrhythmia Detection with large scale ECG data
- Developed EventThread, a visual analytics system for summarizing event sequence data

Research Assistant, Nanjing University, Nanjing, China

Dec 2014 – Apr 2015

- Facilitated a wideband filter module and FFT-based frequency estimation module by *Vivado HLS*

Summer Intern, McGill University, Montreal, Canada

Jun 2014 – Sept 2014

- Provided a model to predict the screening-limited response of nanobiosensors
- Analyzed the reasons for some experimental results that were not well explained within the consistent theoretical framework

Project Leader, Nanjing University, Nanjing, China

Jun 2013 – May 2014

- Lead “Microphone Array Acoustic Localization and Speech Enhancement”, a National Innovation Training Program
- Created and arranged the work schedule for our project team