

Ke Xu

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The Hong Kong University of Science and Technology, Hong Kong

EDUCATION

<i>B.E. in Electronic Science and Technology, Nanjing University, China</i>	2011 – 2015
<ul style="list-style-type: none">Ranking: 1/217, Thesis: FPGA-based Design of FFT & FIR	
<i>Ph.D. in Electronic and Computer Engineering, HKUST, Hong Kong</i>	2015 – Now
<ul style="list-style-type: none">Research Interest: Visual Analytics, Anomaly Detection, Healthcare	

HONORS & AWARDS

<i>Best Paper Honorable Mention Award, ACM CHI Conference</i>	2017, 2018
<i>Excellent Student of Nanjing University, Nanjing University</i>	2015
<i>First Prize of Red Sun Scholarship, (for 30 of students in Nanjing University)</i>	2014
<i>Baosteel Scholarship, (For 2 of Sophomores in Nanjing University)</i>	2013
<i>National Scholarship, Ministry of Education of the People's Republic of China</i>	2012

PUBLICATIONS

[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), 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, 2018 (*Best Paper Honorable Mention*). [25.7% acceptance rate (666/2592)]

[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), 2018.

RESEARCH EXPERIENCE

<i>Ph.D. Candidate, HKUST, Hong Kong</i>	Sept 2015 – Now
<ul style="list-style-type: none">Developed EnsembleLens, a visual system to evaluate different anomaly detection algorithms based on ensemble analysisConducted data visualization projects for analyzing Hong Kong weather, elderly wandering and asset managementDesigned the digital circuit part for a 10Gbps Phase Interpolated based half-rate CDR in 65nm CMOS	
<i>Visiting Student, Tongji University, Shanghai, China</i>	Feb 2017 – Sept 2017
<ul style="list-style-type: none">Designed ECGLens, a visualization tool for Arrhythmia Detection with large scale ECG dataDeveloped EventThread, a visual analytics system for summarizing event sequence data	
<i>Research Assistant, Nanjing University, Nanjing, China</i>	Dec 2014 – Apr 2015
<ul style="list-style-type: none">Facilitated a wideband filter module and FFT-based frequency estimation module by <i>Vivado HLS</i>	
<i>Summer Intern, McGill University, Montreal, Canada</i>	Jun 2014 – Sept 2014
<ul style="list-style-type: none">Provided a model to predict the screening-limited response of nanobiosensorsAnalyzed the reasons for some experimental results that were not well explained within the consistent theoretical framework	
<i>Project Leader, Nanjing University, Nanjing, China</i>	Jun 2013 – May 2014
<ul style="list-style-type: none">Lead “Microphone Array Acoustic Localization and Speech Enhancement”, a National Innovation Training ProgramCreated and arranged the work schedule for our project team	