

# Shunan Guo

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## EDUCATION

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*Ph.D. in Data Science and Engineering,* 2016 - 2021  
**East China Normal University, China**  
Advisors: Dr. Hongyuan Zha, Dr. Nan Cao

*B.ENG. in Software Engineering,* 2012 - 2016  
**East China Normal University, China**  
Advisors: Dr. Guitao Cao, Dr. Wenjie Chen, Dr. Xiangfeng Wang  
Thesis: Visual Analysis of High Dimensional Electronic Health Record

## RESEARCH EXPERIENCE

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*Visit Student in iDVx Lab, Tongji University, China* Nov 2016 - Now  
Advisor: Dr. Nan Cao

Developed EventThread, a visual analytics tool for event sequence summarization  
Published a first-author full paper at VAST 2017 (journal track)  
Contributed to ECGLens, a visualization system for analyzing electrocardiogram signals

*Visit Student in New York University ShangHai, China* Mar 2016 - Oct 2016  
Advisor: Dr. Nan Cao

Developed a visual analytics system for exploring heterogeneous EHR data  
Built an interactive care plan summarization system of CAP data  
Published a first-author paper at VAHC 2016

*Research Assistant in East China Normal University, China* Oct 2013 – May 2015  
Advisor: Dr. Guitao Cao, Dr. Wenjie Chen

Designed an electronic tactile stick and flat blind pavement and applied for patent  
Developed an interactive android client for a vital signs collector

## ENGINEERING EXPERIENCE

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*UI Development Intern, PIONEER* July 2014 – Nov 2014

Developed a mirror-embedded vehicle navigation system  
Built tools for performance testing and comparison of different releases

Web Testing Intern, **eBay**

Nov 2014 – Feb 2015

Built an automatic test tool to run daily functional tests on the website  
Added more test cases and maintain system health

## TEACHING EXPERIENCE

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Teaching Assistant, Information Visualization, **New York University ShangHai**

Sep 2017 – Dec 2017

## AWARDS

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<i>Best Performance Award, iDVx Lab, Tongji University</i>	2017
<i>Outstanding Thesis Award, East China Normal University</i>	2016
<i>3<sup>rd</sup> Class prize, 14th “Challenge Cup” preliminary competition</i>	2015
<i>2<sup>nd</sup> Class prize, “The Great China Cup” Science and Innovative competition</i>	2015
<i>1<sup>st</sup> Class Academic Scholarship, East China Normal University</i>	2015
<i>3<sup>rd</sup> Class Academic Scholarship, East China Normal University</i>	2013,2014

## PUBLICATIONS

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### Journal & Highly Selective Conference Papers

[1] **Shunan Guo**, Ke Xu, Rongwen Zhao, David Gotz, Hongyuan Zha, and Nan Cao. EventThread: Visual Summarization and Stage Analysis of Event Sequence Data. VAST'17 and IEEE Transactions on Visualization and Computer Graphics

[2] Ke Xu, **Shunan Guo**, Nan Cao, David Gotz, Aiwen Xu, Huamin Qu, Zhenjie Yao and 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 Award*)

[3] Chaoguang Lin, Qiuhan Zhu, **Shunan Guo**, Zhuochen Jin, Yu-Ru Lin and Nan Cao. Anomaly detection in spatiotemporal data via regularized non-negative tensor analysis. Data Mining and Knowledge Discovery, 2018: 1-18.

### Workshop Papers

[1] **Shunan Guo**, Chaoguang Lin, David Gotz, Bo Jin, Hongyuan Zha, Linhua Shu and Nan Cao. Understanding Care Plans of Community Acquired Pneumonia Based on Sankey Diagram. Visual Analytics in Healthcare Workshop 2016, Chicago, Illinois. (in conjunction with AMIA)

## TALKS

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*EventThread: Visual Summarization and Stage Analysis of Event Sequence Data* 2017  
**IEEE VIS Conference**, Phoenix, AZ

*EventThread: Visual Summarization and Stage Analysis of Event Sequence Data* 2017  
**GAMES Webinar**, Online

## TECHNICAL SKILLS

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<b>Programming</b>	Python, Java, C++, Matlab
<b>Web Development</b>	Javascript, HTML, Flask, jQuery
<b>SDKs &amp; Toolkits</b>	D3.js, scikit-learn, NumPy, etc