

# ZHIQING HONG

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## EDUCATION

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### **Zhejiang University**

*09/2017 - 03/2020*

M.Eng., Department of Computer Science

GPA: 85.9/100

Rank: 13/52 (1th year), 3/52 (2nd year)

### **Xidian University**

*08/2013 - 07/2017*

B.Eng., School of Software Engineering

GPA: 86.4/100

Rank: 4/56 (overall), 5/433 (3rd year)

## RESEARCH INTERESTS

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Machine learning and data mining,  
Multimodal Information retrieval,  
Natural language processing (NLP),  
Medical data analysis

## RESEARCH EXPERIENCE

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### **Core member, 3D mesh classification with neural network**

01/2020 - present

- Research intern at the State Key Lab of CAD&CG, Zhejiang University
- Research on quality inspection of 3D dental model with multi-view CNN

### **Team leader, GANs and Affective Computing**

03/2019 - 07/2019

- Research on GANs application on time series data in emotional state classification

### **Team leader, Anomaly detection in time series via deep learning**

12/2018 - 05/2019

- Research on Convolutional Neural Network (CNN) for anomaly detection in ECG data

### **Team leader, Time series data classification through machine learning**

03/2018 - 12/2018

- Literature review for medical data mining, ECG data analysis and classification
- Propose a cascaded classifier and feature fusion method for disease classification in heartbeat

### **Core member, Natural language Q&A via information retrieval**

07/2016 - 06/2017

- Research on internet-based question answering system, information retrieval, and NLP

## SELECTED AWARDS

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**National Scholarship, China (top 2%)**

2019

Merit Student, Zhejiang University

2019

Silver Medal Award of Academic Presentation, Ningbo (top 10%)

2019

Suzhou Yucai International Exchange Scholarship, Zhejiang University

2019

The Excellent graduate student Award, Zhejiang University

2018, 2019

**First Prize of Mathematical Modeling, Xidian University (top 10%)**

2016

Second Level scholarship, Xidian University

2016

First Level scholarship, School of Software Engineering, Xidian University (top 2%)	2016
National Endeavor Scholarship, China (top 5%)	2015
Excellent Club Chairman Award	2015
First Level scholarship, School of Software Engineering, Xidian University (top 6%)	2015

## PUBLICATIONS

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### Journals

- Genlang Chen, **Zhiqing Hong**, Yongjuan Guo, and Chaoyi Pang. A cascaded classifier for multi-lead ecg based on feature fusion. Computer Methods and Programs in Biomedicine, 2019.(IF=3.424)
- Genlang Chen, **Zhiqing Hong**, Yi Zhu, and Zhen Yang. A framework for emotional states identification via single modal ECG signal. Submitted to Cognitive, Affective, & Behavioral Neuroscience.(IF=2.661) (**under review**)
- Genlang Chen, **Zhiqing Hong**, Chenglong Ma, Maolin Chen and Chaoyi Pang. A Multi-model fusion ECG ResNet for Cardiovascular Abnormal Detection. Submitted to BMC Medical Informatics and Decision Making.(IF=2.067) (**under review**)

### Conferences

- Genlang Chen, Yi Zhu, **Zhiqing Hong**, and Zhen Yang. EmotionalGAN: Generating ECG to enhance emotion state classification. In Proceedings of the 2019 International Conference on Artificial Intelligence and Computer Science, pages 309–313. ACM, 2019.

## SKILLS

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### Language skill

- IELTS (2019.01) Listening: 8.0; Reading: 8.0; Writing: 6.0; Speaking: 6.0; Overall: 7.0
- GRE (2019.09) Verbal:154 (64%); Quantitative:170 (96%); Analytical Writing:3.5 (39%)

### Technique skill

- programming language: C++, C, Python, Java, MATLAB
- deep learning framework: Tensorflow, Keras, PyTorch

## OTHER EXPERIENCES

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Academic visit to Universidade Estadual de Campinas (Unicamp), Brazil	11/2019
Academic visit to NUS and NTU, Singapore	01/2019
Volunteer at Very Large Data Bases (VLDB) summer school, Ningbo, China	07/2018
Volunteer at International Graduate Scholarship Fair, Hangzhou, China	10/2017