

Junjie Zhu

CONTACT INFORMATION

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ADDRESS: School of Software, Tsinghua University, Hai Dian, Beijing, China

EDUCATION

Aug. 2018 - **Tsinghua University**, Beijing, China

- Ph.D Student in Software Engineering
- Advisor: [Prof. Yue Gao](#)
- Areas of interest: Medical Image Analysis & Brain Signal Analysis & Computer Vision

Sep. 2014 - Jun. 2018 **Hunan University (HNU)**, Chang'sha, Hunan, China

- Bachelor of Control Science and Engineering

PUBLICATION

- [1] **Junjie Zhu**, Yuxuan Wei, Yifan Feng, Xibin Zhao, and Yue Gao. "Emotion Recognition with Multi-hypergraph Neural Networks Combining Multimodal Physiological Signals". Submitted to *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)*, minor revision.
- [2] **Junjie Zhu**, Yue Gao, Han Hu, Xibin Zhao and Qionghai Dai. "Emotion Recognition from Physiological Signals Using Multi-hypergraph Neural Networks". **Accepted as Oral** by *IEEE International Conference on Multimedia and Expo (ICME2019)*.
- [3] Zizhao Zhang, Haojie Lin, **Junjie Zhu**, Xibin Zhao, Yue Gao. "Cross-Diffusion on Multi-Hypergraph for Multi-Modal 3D Object Recognition.". **Accepted** by *The Nineteenth Pacific-Rim Conference on Multimedia (PCM 2018)*. **Best Student Paper Award**

RESEARCH EXPERIENCE

School of Software, Tsinghua University.

Ph.D

Nov. 2017 - Mar. 2019

- Advisor: [Prof. Yue Gao](#)
- Cross Diffusion in 3D Object Recognition.
 - Designed a framework to conduct 3D object recognition using multi-modal information through a cross diffusion process on multi-hypergraph structure.
 - Published a paper(Best Student Paper Award) in PCM2018.
- Emotion Recognition from Physiological Signals.
 - Proposed multi-hypergraph neural networks (MHGNN) to recognize emotion from physiological signals and explore the latent correlation among multiple physiological signals and relationship among different subjects.
 - Designed a framework on emotion recognition which takes personal peculiarities into consideration, and fuses various modes of physiological signals and personalized kernel by a multi-modal interaction scheme.

- Provided solid proof and validated MHGNN in the DEAP dataset and ASCERTAIN dataset with considerable improvements.
- Submitted a paper as oral in ICME2019 and a paper submitted to *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)*, minor revision..

AWARDS & HONORS

- 2018 Best Student Paper Award in PCM 2018
- 2018 Outstanding Graduate of Hunan Province
- 2018 Outstanding Student Cadres in HNU
- 2016 Xiaoge-xiong scholarship in HNU (Top 0.25%)
- 2017 Bishuiyuan scholarship in HNU (Top 1%)
- 2017 First-prize scholarship in HNU (Top 5%)
- 2016 First-prize scholarship in HNU (Top 5%)
- 2015 First-prize scholarship in HNU (Top 5%)

COMPUTER PROGRAMMING

Computer Programming: C, C++, MATLAB, Python and others
Tools: Pytorch.