# HUI(NORBERT) ZHENG

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https://norbertzheng.github.io

## RESEARCH INTERESTS

- **Neuroscience**: Computational Neuroscience; Machine Learning; Brain Decoding

## EDUCATION

**Peking University, Beijing, China** Sept. 2021 - Present

*Ph.D. in Neuroscience*

- **Advisor**: Dr. Yunzhe Liu

**Wuhan University, Wuhan, China** Sept. 2017 - Jun. 2021

*B.S in Computer Science (with honors)*

- **GPA**: 3.84/4.00(92.1/100)
- **Rank**: 2/32(selected from 363 students in School of Computer Science, Wuhan University)
- **Exchange**: Visiting Student at University of California, Berkeley(2019 summer)

## PUBLICATIONS

* indicates equal contribution.

- **Hui Zheng***, Zhongtao Chen*, Haiteng Wang, Jianyang Zhou, Lin Zheng and Yunzhe Liu, "Universal Sleep Decoder: Aligning awake and sleep neural representation across subjects," in submission.
- Wenquan Xu, Haoyu Song, Linyang Hou, **Hui Zheng**, Xinggong Zhang, Chuwen Zhang, Wei Hu, Yi Wang, Bin Liu, "SODA: Similar 3D Object Detection Accelerator at Network Edge for Autonomous Driving," in IEEE International Conference on Computer Communications (INFOCOM), 2021.
- Yunzhe Li*, **Hui Zheng***, He Zhu*, Haojun Ai and Xiaowei Dong, "Cross-People Mobile-Phone Based Airwriting Character Recognition," in International Conference on Pattern Recognition (ICPR), 2020.

## RESEARCH EXPERIENCE

**Peking University, Beijing, China** Jan. 2022 - Dec. 2022

Research Assistant

Advisor: Dr. James Whittington and Dr. Yunzhe Liu

- Research the role of replay for memory consolidation.
- Build a machine replicate the replay observed in both human and rodent.

**Peking University, Beijing, China** Mar. 2021 - Aug. 2021

Research Assistant

Advisor: Dr. Si Wu

- Researched the global to local information processing.
- Analyzed the dynamics of the neural network model with gap junction.

**Tsinghua University, Beijing, China** May. 2020 - Aug. 2020

Research Assistant

Advisor: Dr. Bin Liu

- Researched the real-time processing of autonomous driving in the Internet of Vehicles.
- Designed efficient algorithms for the novel TCAM-NMC in-network accelerator, which accelerates the MEC-assisted similar 3D object detection for autonomous driving.

**Wuhan University, Wuhan, China** Feb. 2020 - Apr. 2020

Research Assistant

Advisor: Dr. Haojun Ai

- Researched transfer learning in Air-Writing.
- Developed a system that could transfer between different people.

## AWARDS AND HONORS

Outstanding Graduate **(12 out of 127, 10%)**, Wuhan University Apr. 2021
National Scholarship, Wuhan University Oct. 2020
Excellent Student Scholarship **(Rank: 1/32)**, Wuhan University Oct. 2020
National Second Prize of FPGA Innovation Design Competition, China Dec. 2019
National Second Prize of Intelligent Robot Fighting Competition, China Oct. 2019
Excellent Student Scholarship **(Rank: 4/32)**, Wuhan University Oct. 2019
Excellent Student Scholarship **(Rank: 8/32)**, Wuhan University Oct. 2018
Freshman Scholarship, Wuhan University Oct. 2017