Zhicheng Zheng

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(16/10/2022 Updated)

EDUCATION

Tsinghua University   **Beijing, China**
Department of Automation   *05/2021- present*
Department of Energy and Power Engineering   *05/2020-05/2021*
Department of Electrical Engineering   *08/2019- 05/2020*

- Overall GPA: 3.92/4.0 (Ranking: 7 of ~150 in total, including other major courses, confirmed by Mrs.Zhang)

- Major GPA: 3.95/4.0 (Ranking: 2 of ~150 in total, the major is automation, confirmed by Mrs.Zhang)

- Relevant Courses

  o Mathematics & EECS: Linear Algebra (4.0); C++ Programing (4.0); Data Structures (4.0); Probability and Stochastic Processes (4.0); Probability and Statistics (4.0); Digital Electronics (4.0); Signals and System Analysis (4.0); Numerical Analysis and Algorithms (4.0); Introduction to Complex Analysis (4.0); Bases and Application of Digital Video (4.0); Pattern Recognition and Machine Learning (4.0); Contemporary Electronic System Design (4.0, A+); Fundamentals of Analog Electronics (4.0).

RESEARCH INTERESTS

- Machine Learning (Computer Vision, Multimodality)
- Computational Neuroscience, Brain/Cognitive Science

PROJECTS

Tsinghua University   **Beijing, China**
Researcher   *05/2021- 10/2021*
  MOE Key Laboratory of Bioinformatics

  ➢ SRT (Student Research Training) Project: Focusing on designing a better classifier on medical computed tomography (CT) image of tumour with the methods of self-supervised learning.

Tsinghua University   **Beijing, China**
Researcher   *04/2022- present*
Institute of Brain and Cognitive Science

  ➢ In the early 2022, I dived into some key questions about neural decoding in computational neuroscience with the help of statistic methods and machine learning models.

  ➢ Currently in the late 2022, me with my partner is leading a project which focuses on visually realistic digital human generation works. We hope to submit our study results this year.

SKILLS

- **Programming Languages:** Proficient in C++, Python, MATLAB, also Verilog HDL…
- **Machine Learning Tools:** Proficient in PyTorch, Scikit-Learn…
- **Other Skills:** Latex, Git, Familiar with Windows / Linux / MacOS…

HONORS & AWARDS

- Integrated Excellence Award in Tsinghua University in the 2019-2020 school year.
- Learning Excellence Award in Tsinghua University in the 2020-2021 school year. (Top 5%)
- Learning Excellence Award in Tsinghua University in the 2021-2022 school year. (Top 1%)

INTEGRATED DEVELOPMENT

Social Work

Member of Student Union of Department of Automation, Tsinghua University   05/2021- present

- I raised ¥10,000 financial support for freshman ball (over 400 participants) in 10/2021.
- Our team raised ¥30,000 financial support from Xiaomi.Inc for DA student festival in 12/2021, and I helped to connect with the company.
- My regular work is to provide publicity services to companies for their support.

Publicity Coordinator, Class EEA94, Tsinghua University   08/2019- 06/2020

- Running class Wechat platform and making over 20 Wechat push recording cherished class life.

Volunteer Work

- Certified volunteer hours：over 100 hours on bv2008.cn platform