

Kaiyue Wen

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Tsinghua University
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EDUCATION

BS, Institute for Interdisciplinary Information, Tsinghua University
Overall GPA: 3.94/4.00

Expected 07/2021

AWARDS AND HONORS

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| 1 st Prize in National High School Mathematics Olympics Competition | 11/2019 |
| 1 st Prize in National High School Mathematics Olympics Competition | 11/2018 |
| 2 nd Prize for Excellent Freshman Student, Tsinghua University | 09/2020 |
| S.-T. Yau College Student Mathematics Contest | 05/2021 |
| The highest college mathematics contest in China | |
| <ul style="list-style-type: none">• Won Silver Medal in personal track (rank 3, highest rank in Tsinghua) and Bronze Medal in team track• Participated in probability and statistics track, taking two rounds of test including written test and interview | |
| The 3 rd Ghost Hunter Neutrino Data Science Competition of Tsinghua University | 05/2021 |
| <ul style="list-style-type: none">• Won the 3rd place among 60 teams• Team Leader• Build an end to end neural network predicting neutrino energy based on waveform detected by sensors• Study papers about the physical process generating the synthetic data to guide selecting the hand-design feature | |

RESEARCH EXPERIENCE

NLP

Understanding soft prompt tuning via neuron activation pattern

06/2021 – Present

Core group member, Tsinghua NLP Lab

- Built and trained prompt tuning transformer models on classical tasks, achieving performance compatible with standard finetune
- Tried analyzing similarity between prompt tuning and head tuning by inspecting feedforward neuron activation, discovered surprising pattern and implicit invariant across different model (still in progress)

CV

Zero Shot Action Video Classification

01/2021 – 02/2021

Internship at MEGVII, MEGVII Research Center

- Discussed possible approaches to improve zero shot performance on action video classifications
- Built and trained a multimodal model that aims at aligning features extracted by video with word embedding of their labels and improve zero shot performance

SKILLS

- **Computer skills:** **Programming languages:** C/C++, Python
Operation Systems: Linux
Deep Learning Framework: Pytorch
- **Math skills:** Familiar with mathematics analysis and linear algebra
Skillful in Probability theory, Statistics and elementary mathematics
- **Other skills:** Graduate level understanding on Causal Inference (scored A+ on respected graduate course tutored by Yuhao Wang)

EXTRACURRICULAR ACTIVITIES

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|---|-------------------|
| Host of 10 th Anniversary of Institute for Interdisciplinary Information | 05/2021 |
| Member of debate team of Department of Computer Science and Technology, Tsinghua | 12/2020 - Present |
| Youth League Secretary of Class 01 of Institute for Interdisciplinary Information | 09/2020 - 06/2021 |
| Class Monitor of Class 01 of Institute for Interdisciplinary Information | 06/2021 - Present |