Haimeng Zhao

Website: hmzhao.me Email: haimengzhao@icloud.com GitHub: github.com/JasonZHM

EDUCATION

Tsinghua University

Beijing, China

2020-Current

Zhili College, B.Sc. in Physics, GPA: **3.98/4.00**, QPA: **4.00/4.00** Selected Coursework (* for audit):

Physics: Analytical Mechanics, Quantum Mechanics

Math: Advanced Calculus, Linear Algebra, Topology*, Graduate Group Theory*

CS: Machine Learning*, Theoretical Computer Science*, Quantum Computer Science*

Shanghai High School

Shanghai, China

Awards: Outstanding Graduate, Student of the Year (2019)

2017-2020

EXPERIENCE

International Center for Theoretical Physics

Trieste, Italy

2021

School Participant

 The Hitchhiker's Guide to Condensed Matter and Statistical Physics: Machine Learning for Condensed Matter (4 weeks)

PUBLICATIONS

[1] **Haimeng Zhao** and Peiyuan Liao. *CAE-ADMM: Implicit Bitrate Optimization via ADMM-based Pruning in Compressive Autoencoders.* 2019. arXiv: 1901.07196 [cs.CV].

SKILLS

LANGUAGES

• Tools: Git, LATEX, Shell, Slurm

• Frameworks:

PyTorch, Keras, TensorFlow, numpy, pandas, scikit-learn

• Programming:

Python, C/C++, Mathematica, MATLAB

• Chinese: native

• English:

- TOFEL: N/A

- **GRE:** N/A

PROJECTS

See full list of projects on hmzhao.me

CAE-ADMM

(Learned Image Compression, Neural Architecture Search, Computer Vision, Deep Learning, 2019) Introducing ADMM-pruned Compressive AutoEncoder (CAE-ADMM) that uses Alternative Direction Method of Multipliers (ADMM) to optimize the trade-off between distortion and efficiency of lossy image compression.

SCHOLARSHIPS AND AWARDS

•	ST. Yau High School Science Award (Computer), Gold Prize	2019
•	The Awarding Program for Future Scientists, title of "Future Scientist"	2019
•	Chinese Physics Olympiad, Finalist, Bronze Medal	2019