# Haimeng Zhao

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#### EDUCATION

Tsinghua University

Beijing, China

Zhili College, B.Sc. in Physics, GPA: 3.98/4.00

Selected Coursework:

2020-Current

Physics: Analytical Mechanics

Math: Advanced Calculus, Linear Algebra for Physical Sciences, Topology (Audit), Graduate Group

Theory (Audit)

CS: Machine Learning (Cousera), Theoretical Computer Science (MOOC)

Shanghai High School

Shanghai, China

2017-2020

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

#### Publications

[1] H. Zhao and P. 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) We introduce 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, Bronze Medal	2019