

## EDUCATION

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### Tsinghua University

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

*Selected Coursework* (\* for audit):

**Physics:** Analytical Mechanics

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

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

Beijing, China

2020–Current

### Shanghai High School

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

Shanghai, China

2017–2020

## PUBLICATIONS

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- [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

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- **Tools:** Git,  $\text{\LaTeX}$ , Shell, Slurm
- **Frameworks:** PyTorch, Keras, TensorFlow, numpy, pandas, scikit-learn
- **Programming:** Python, C/C++, Mathematica, MATLAB

## LANGUAGES

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- **Chinese:** native
- **English:**
  - **TOFEL:** N/A
  - **GRE:** N/A

## PROJECTS

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See full list of projects on [hmzhao.me](http://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

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| • S. -T. 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 |