# Yunhao Zhou

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## 🎓 Education

**2022.9-present**  Master of EE                    **Shanghai Jiao Tong University (SJTU) Shanghai**
GPA: 3.86/4.0    Rank: 10/50

**2018.9-2022.6**   Bachelor of EE   **Huazhong University of Science and Technology (HUST) Wuhan**
GPA: 3.93/4.0    Rank: 1/28

**Major course:** Machine Learning, Computer Architecture, Digital IC, MCU, Mixed Signal Automation, Processor Architecture, Software technology foundation

**Skills:** C/C++, Python, Verilog, TCL, Gem5, ABC, Cadence virtuoso, Quartus, Proteus

**IELTS:** 7.0

## 🏆 Awards

2023 First class scholarship of SJTU    2022 First class scholarship of SJTU    2022 Outstanding graduate of HUST

2021 American college students mathematical Contest in modeling: Meritorious Winner

2020 National Mathematical Contest in Modeling for College Students: National Second Prize

2020 Outstanding Undergraduate of HUST

## 📝 Experience

**2024 Nvidia Internship Project**                                                        python

- Develop inhouse tools and flow automation for VLSI physical design

**2023 Shanghai Innovation Center for Processor Technologies**              python C++ verilog

- Developed AGI Multimodal Large Models for Chip Auto-Design, co-author DAC Accepted
- Data driven logic synthesis, research BSD based CPU generation and NN based approximate logic synthesis

**2023 X-EPIC Technology Internship Project**                                      C C++ TCL

- Conducted algorithm for X-valued combinational equivalence checking based on ABC system
- Participated in development of LEC APP in formal verification software

**2023 High Fanout Register Identification Algorithm in ASIC Chip Physical Design**      python verilog

- Implemented a verilog netlist parser for hierarchically structured Verilog netlists
- Developed a search algorithm with a time complexity of $O(N)$ for extraction of register fanout counts

**2022 Matrix multiplication Optimization of GMM based on Gem5 simulator**

- Memory access optimization based on Gem5 simulator and the algorithm of matrix multiplication

**2020 National Mathematical Contest in Modeling for College Students**

- Financial loan optimization problem based on decision tree and RAROC model

**2019 National Mathematical Contest in Modeling for College Students**

- The Numerical simulation of the control process of high pressure tube based on differential equation