Boyi Wei | Curriculum Vitae

Room 322-535, USTC, Hefei, Anhui, 230026, P.R. China

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Education

University of Science and Technology of China (**USTC**)   2019.9 – Present

Microelectronics and Solid-State Electronics, **Jici Yan Elite Program** for Physical Sciences

GPA: 4.10/4.30 (major)   **GPA: 4.01/4.30** (cumulative)

Ranking: 1/34 in Microelectronics and Solid-State Electronics major

Core Courses: Computer Programming A (95), Data Structure and Database (ongoing), Electronic Circuits (92), Digital Logic Circuits (ongoing), Linear Algebra (93), Multi variable Calculus (96), Electromagnetism (99), Electrodynamics (95), Stanford CS224W (on YouTube)

National Scholarship (**Top 1%**, **highest honor** for undergraduates at USTC)

TOEFL iBT Test: 30 (Reading) + 21 (Listening) + **24 (Speaking)** + 25 (Writing) = 100

Research Experiences

Research Assistant in SoC Design Lab, USTC

Advisor: Prof. **Xi Jin**   2021.3.– Present

Project: **Acceleration of Graph neural network sampling algorithm**

➢ Systematically studied the knowledge of Graph Neural Network (GNN), Python, Pytorch, Pytorch-Geometric (PyG), and Deep Graph Library (DGL)

➢ Purposed "CONCAT Sampler", which can reduce the training time by a factor 10 on reddit dataset theoretically, and guarantee the accuracy decrease of 2% or less

➢ Designed several neighbor-sampler (or dataloader) based on PyG. Compared the efficiency and accuracy of the GNNs based on different sampling methods

➢ Currently working on the acceleration of the sampling process with FPGA, with the goal of making GNNs more efficient

Honors & Awards

➢ **National Scholarship** (Top 1%, highest honor for undergraduates at USTC)	2021.10
➢ **Scholarship for elite students (Gold Award)**	
(Top 2%, one of the highest honors for undergraduates at USTC)	2021.10
➢ Jici Yan Elite Student Scholarship (A Class) (Top 2%)	2021.11
➢ China Undergraduate Physics Tournament (National 1st Prize) (USTC)	2021.7
➢ China Undergraduate Physics Tournament (Best Reporter) (Personal)	2020.11
➢ Scholarship for elite students (Bronze Award)	2020.7
➢ Electromagnetism Course Thesis Competition, Second Prize	2020.7
➢ Outstanding Freshman Scholarship	2019.10

Technical Skills

Programming languages: Verilog-HDL, C, Python, **Pytorch, Pytorch-Geometric (PyG), Deep Graph Library (DGL)**, SQL, MATLAB, Mathematica

Other skills: LaTeX, Origin, Windows, Ubuntu Linux, MacOS