Xia **Yu**
Curriculum Vitae

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"Life is short, play more."

Education

UCSB (University of California, Santa Barbara)   *Santa Barbara, CA*

GRADUATE ACADEMIC PREPARATION PROGRAM   *Sep. 2022 - Jun. 2023(Expected)*

- Have been granted admission to this Program and got U.S. Visa.

HUST (Huazhong University of Science and Technology)   *Wuhan, China*

DEGREE: B.E. IN MICROELECTRONIC ENGINEERING | CUMULATIVE GPA 3.96/4.0   *Sep. 2019 - Present*

- Key courses: Calculus (I)(A)(97), Linear Algebra (92), Signal and Linear System(97), Semiconductor Physics(I)(96)
- Award: College Social Service Scholarship, College Study Excellence Scholarship, College Outstanding Student Leader Scholarship
- Expected graduation: Jun. 2023

Research Experience

China College IC Competition   *Wuhan, China*

POSITION: GROUP MEMBER   *Mar. 2022 - Present*

- Researched image super-resolution algorithms and deploying one of them to FPGA.
- Wrote python code to implement some traditional algorithms in this domain such as Bilinear.
- Replicated the work of a paper in CVPR using Python platform Keras and Tensorflow.
- Finished some verilog codes and uploaded them to my github.

College Students' Innovative Entrepreneurial Training Plan Program   *Wuhan, China*

POSITION: GROUP LEADER   *Feb. 2021 - April. 2022*

- Led a team consisting of three other students and coordinated research efforts for increased efficiency.
- Researched Non-intrusive Load Monitoring problem utilizing a combination of CNN and RNN.
- Proposed an original approach which uses high-frequency data(hardly been used in previous studies) in the public dataset and obtained better results to some extent.

Mathematical Contest in Modeling (MCM), Problem B   *Wuhan, China*

POSITION: RESPONSIBLE FOR MATHEMATICAL MODELING AND PROGRAMMING   *Feb. 18, 2022 - Feb. 22, 2022*

- Built a mathematical model utilizing the multi-objective optimization algorithm NSGA-2.
- Wrote the whole python code based on the functions which were included in the pymoo package.

Honors & Awards

May. 2022	**Honorable Mention,** Mathematical Contest in Modeling (MCM), Problem B, Control No. 2221948	*Wuhan, China*
Oct. 2021	**College Public Service Scholarship,** The college awarded for students with abundant public service experience. About 5% of students received.	*Wuhan, China*
Oct. 2020	**College Study Excellence Scholarship,** The college awarded some students who rank in the top 25%.	*Wuhan, China*
Oct. 2020	**College Outstanding Student Leader Scholarship,** The college awarded student leaders with outstanding performance. About 4% of students received.	*Wuhan, China*

Extracurricular Activities

China Marrow Donor Program(CMDP)   *Wuhan*

A POTENTIAL BLOOD STEM CELL DONOR   *Nov. 2020 - Present*

- Registered my HLA typing information in the CMDP's database when I was a sophomore.
- Matched two patients in low-resolution very fortunately within the previous two months which means it is possible for me to save lives.
- Kept in touch with CMDP's staff recently to ensure every process.

Class in College

Wuhan

Financial Aid Responsible Person

Sep. 2019 - June. 2021

- Assisted the entire class of 26 people in applying for scholarships.
- Warmly helped needy students(nearly 4 to 5 in my class and one of them came from single-parent families while others were born in poor areas or families) in the class to apply for college and social grants, which may be badly needed by some of them to cover living expenses or tuition fees.
- Awarded College Outstanding Student Leader Scholarship for my dedication and responsibility.

Skills

Professional Software	Microsoft Office, Adobe Premiere Pro , PyCharm, Matlab, Vivado
Programming Languages	Python, JAVA, C, Assembly Languages, Verilog HDL, Markdown, Matlab
Technique Skills	Artificial Neural Network(especially RNN and CNN), Mathematical Modeling, FPGA
Languages	Chinese, English