

Juechu Dong

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EDUCATION

University of Michigan

Expected - May 2022

Ann Arbor, MI

Computer Engineering, Bachelor of Science

GPA: 4.00/4.00

Coursework: Data Structures and Algorithm EECS281 (A) Digital Integrated Circuits EECS312 (A) Computer Architecture EECS470 (A) Compilers (A+) Operation System (in progress)

University of Michigan-Shanghai Jiao Tong University Joint Institute (UM-SJTU JI)

Expected - Aug. 2022

Shanghai, China

Electrical and Computer Engineering (ECE), Bachelor of Science

GPA: 3.82/4.00

RESEARCH EXPERIENCE

A Federated Genomic Analysis System Based on Open-enclave & SGX

May 2021-Present

University of Michigan, Ann Arbor MI

Monitored by: Dr. Satish Narayanasamy

- Solve privacy concerns in genomic data sharing without accuracy penalty from metadata studies or performance penalty from homomorphic encryption
- Build a centralized system that collects genomic data from host institutions and analyze them on central server enclave without leaking raw or intermediate data

Fully-Autonomous SoC Synthesis, Explore CS Research Program

Jan. 2021-May 2021

University of Michigan, Ann Arbor MI

Monitored by: Dr. Ronald Dreslinski

- Build an intent solver that translates high-level user intent into hardware specifications and to satisfy user constraints, in particular, determines appropriate acceleration blocks for user python code
- Attend weekly meetings with Dr. Dreslinski to develop basic research skills in experiment setup and to learn how to narrow down research interests and identify a new research topic

TEACHING EXPERIENCE

Instructional Aid for Computer Architecture Course (EECS470)

University of Michigan, Ann Arbor MI

Sept. 2021-Present

- Hold lab sections on system Verilog, out of order processor design topics
- Answer questions and deliver materials regarding processor design
- Develop exam questions on branch prediction, out of order processor etc.

SELECTED HONORS

John Wu & Jane Sun Outstanding Scholarship
Dean's List

UM-SJTU Joint Institute
University of Michigan

Sept. 2018
Dec. 2020

SKILLS

Language

- **Chinese** (Native, Mandarin)
- **English** (Fluent) TOEFL 109/120: Listening: 30 | Speaking: 26 | Reading: 29 | Writing: 24

Programming Knowledge

- **Proficient in:** C/C++ (System)Verilog