Youwen Wu

✉ youwen@ucsb.edu
 youwen5
 Youwen Wu
 youwen.dev

Curriculum Vitæ

Education

2024 – 2028	**B.S. Mathematics**, *University of California, Santa Barbara*, 4.0/4.0
2024 – 2028	**B.S. Computer Science**, *University of California, Santa Barbara*, 4.0/4.0

Experience

4/2022 – 7/2023	**Systems programmer**, *UCSB Robotics Lab*, Designed reproducible and purely functional hermetic build systems. Creating 3D simulacrums of laboratory experiments that are reproduced in real life, using C++, React, and Three.js.
09/2022 – 06/2024	**Artificial Intelligence Lead**, *FIRST Robotics Team 1280*, Worked on autonomous decision making and path planning algorithms. Replaced the venerable *BozoAuto* autonomous subroutine with the *DeepBozo* autonomous suite. Designed a novel robot control dashboard with 3D visualization using Rust, Tauri, and Svelte.

Skills

Languages	Haskell, Rust, TypeScript, Bash, Python, Nu, Nix, C++.
Development	Tauri, React, Svelte, Linux.
Deployment	Nix and NixOS, Docker and NixOS based service deployment and system administration.

Papers

Preprints

1/2024	**The DeepBozo Report** eeXiv:10j4yyvp4so9.
3/2024	**eeXiv Whitepaper** eeXiv:gc3lso8s9tyb
2/2024	**The LiDAR Whitepaper** eeXiv:my8nruhlzjsq

Research Projects

5/2024	Split Cycle: A New Condorcet Consistent Voting Method Independent of Clones and Immune to Spoilers

Languages

English	Native	Chinese	Fluent