

Robert Lawrence

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About Me

Undergraduate double majoring in Mathematics - Honors and Computer Science at the University of Tennessee, Knoxville. Research interests include numerical linear algebra, linear optimization, and supercomputing. Currently playing table tennis for the University as captain of the competitive team and president of the club, as well as dancing for an audition-based dance company.

Education

University of Tennessee, Knoxville Aug 2023 – Present

- Junior, expected graduation May, 2027.
- GPA: 3.95
- **Coursework:** Graph Algorithms, Numerical Analysis, Numerical Algebra, Honors: Analysis I/II, Honors: Abstract Algebra, Probability Theory, Systems Programming, Data Structures, Algorithms

Research

Existence and Isolation Results for Hadamard Matrices Aug 2025 - Nov 2025

- Conducted research with Dr. Remus Nicoara on generating existence and isolation results for complex Hadamard matrices.

Analyst's Traveling Salesman Problem Aug 2024 - May 2025

- Collaborated with Dr. Vyron Vellis on implementing an algorithm to solve the Analyst's Traveling Salesman Problem in $O(n^3)$ time in C/C++ , switching to Rust later in the project.

Experience

IT Staff, EECS Department – Knoxville, TN Mar 2025 – Present

- Resolve professor/student tickets regarding unresponsive devices, faulty hardware, etc.
- Image new computers according to University guidelines

Mathematics Tutor, UTK Math Department – Knoxville, TN Aug 2024 – Jan 2026

- Helped math/engineering students understand core concepts to their degree
- Assisted non-STEM majors in excelling in their math gen ed classes

Front End Manager, Food City – Knoxville, TN Aug 2023 – Aug 2025

- Create schedules and mitigate minor labor violations
- Repair broken machines: crashed registers, broken lottery ticket dispenser, etc.

Projects

Underbranch github.com/RobbyLawrence

- Currently developing a web-based collaborative LaTeX editor.
- Tools: JavaScript, Node.js, nginx, React

Enclose Horse github.com/RobbyLawrence

- Integer linear programming solution to the popular Enclose Horse game
- Tools: C++, Gurobi, libcurl, CMake

Technologies

Languages: C/C++, JavaScript, Python, Rust, C#, Mathematica, MATLAB

Operating Systems: Linux (RHEL, Ubuntu, etc.), macOS, Windows