Aidan Hurwitz

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Skills & Interests

Languages: Python, R, C++, SQL, JavaScript, HTML, CSS
Technologies: Numpy, Pandas, Jupyter, LaTeX, RStudio, MongoDB, Flask (web dev), Keras, Sklearn, Matplotlib, Tensorflow

- Pure and Applied Mathematics, specifically Linear Algebra, Statistics Theory, General Topology.
- Data collection and regression analysis, computational and visualization strategies for large, complex data sets.
- All things outdoors - hiking, camping, kayaking, mountain biking. Favorite National Park: Great Smokey Mountains
- Music, specifically *folk indie* but dabbles in everything. Plays guitar, violin, and piano regularly (see my website).

Education

B.S. **University of Florida**, *Mathematics & Data Science double major* — Gainesville, FL, 2023 - 2027 (prosp.)

- GPA: **4.0**, minor in Environmental Science
- **Favorite Coursework:** Linear Algebra (theory and for data science), Probability, Real Analysis & Advanced Calc., Regression Analysis, Environmental Science, Programming in R, Agricultural Ecology, Data Structures.
- Study Abroad (Summer 2025): UF in England - Statistics and Data Science research program working with Rothamsted Research Institute to perform **agricultural data science** methods and study take-all disease build-up in multiple long term wheat trials.
- Officer [2024-2025] and member of Honors Tabletop, the board game club for nerds!

Experience

UF Department of Geomatics, *Research Assistant* — Gainesville, FL, August 2025 – Present

- Worked with Dr. Ben Wilkinson and PhD students conducting research in computer vision, image registration, and spatial resections.
- Produced deliverables to non-profits involved in coastal research on Florida Gulf.
- Wrote a custom algorithm to perform a space resection given n object points in $\mathbb{R}^3$ and n camera points in $\mathbb{R}^2$ using the DLT method and iterative gradient descent.

UF CLAS Academic Resources, *Mathematics Tutor* — Gainesville, FL, August 2024 – Present

- Prepared over **2000** UF students for success in mathematics and statistics studies.
- Served as a mentor, tutor, study skills advisor, and crisis counselor for students.
- Led exam reviews, ran math tutoring labs, and held private appointments during both Fall and Spring semesters, from stats 1 and trig. to elem. diff. eq.

Chalkline Baseball, *Founder & Software Developer* — Sarasota, FL (remote), September 2021 – Present

- Founded, built web-app to help local Little Leagues schedule games and umpires.
- Integrated Chalkline in 2 different leagues in the Sarasota area, providing services to over **100** umpires, **200** coaches, and **3000** players.
- Created a service to manage umpire schedules, send email reminders, log payments, notify staff, and serve the community.
- Reduced no-shows from volunteer workers by over **200%** using automated emails.

UF College of Education, *Research Partner* — Gainesville, FL, January 2025 – May 2025

- Worked with professors at the UF College of Education building lesson plans for high school chemistry and biology classes using 3d molecular modeling software.
- Implemented constructivist philosophy and data-driven science to guide students into discovery and scientific learning.