Camila Grubb

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EDUCATION

University of Arizona, College of Science **Tucson, Arizona**
Bachelor of Science May 2025

- **Major:** Computer Science
- **Minor:** Business Administration

TECHNICAL SKILLS

Laboratory Skills: Data Analysis, Teamwork, Communication, Publication Writing, Problem Solving
Programming Languages: Python, Java, JavaScript, HTML, CSS, C, SQL
Frameworks/Libraries: Numpy, Matplot, Pandas, Scipy, Pytorch, NLTK, Transformers
BI/Analytic Tools: Matplot, Jupyter, Excel
Software: Git, VSCode, Microsoft

PROFESSIONAL & LEADERSHIP EXPERIENCE

Sarver Heart Center **Tucson, Arizona**
Research Lab Assistant August 2022 – December 2024

- Designed and implemented code-based solutions for detecting movement abnormalities in CKD patients ensuring validity and clear visualization of motion data.
- Optimized Python scripts for statistical analysis eliminating need for manual validation and reducing data processing time by several hours.
- Verified the efficacy and usability of 3 large language models for their use in clinical record keeping.
- Prepared papers and presentations for 4 professional medical conferences to connect the Arizona Center for Accelerated Biomedical Innovation research center with other laboratories.

Banner Medical Center **Tucson, Arizona**
ADVANCE Lead Researcher May 2024 – August 2024

- Directed a research team of 6 undergraduate students to design experiments for successfully evaluating the efficiency of 4 Texas Instruments millimeter-wave radar sensors.
- Facilitated collaboration across engineering and medical teams, fostering clear communication and on-time project delivery.
- Configured sensors for real-time data acquisition of 6 subjects over 36 trials using TI hardware and custom Python scripts allowing for analysis of 3 biological markers.

University of Arizona Design Labs **Tucson, Arizona**
Design Lab Intern February 2023 – May 2024

- Developed and prototyped software solutions for APEX Applied Technologies, addressing outreach needs for new clients needing to apprehend financial terminology.
- Researched and identified funding opportunities and cost-effective website resources, reducing financial burdens by over $20,000.

PROJECTS

Around-Body versus On-Body Motion Sensing: A comparison of Efficacy Across a Range of Body Movements and Scales **Tucson, Arizona**
Author Published November 19th 2024

- Conducted motion fluctuation analysis between 2 mobility sensors achieving 73.24% agreement efficiency for 2 predefined motions.

Sherlock3 Semester Project **Tucson, Arizona**
Developer August 2024 – December 2024

- Created a question-answering system for group coursework project inspired by IBM's Watson achieving initial precision at 1 accuracy of 47% and mean reciprocal rank of 0.52.fin

CERTIFICATIONS

Languages: Conversational Proficiency in Spanish
Certifications: Cybersecurity Certificate from University of Arizona