

# Diego Guzman

(213)246-8442 | guzmand7@uci.edu | [LinkedIn](#) | [Portfolio](#) | [Github](#)

## EDUCATION

---

### University of California, Irvine

Irvine, CA

Bachelor of Science in Informatics (emphasis in Human-Computer Interaction)

Sep. 2021 – Expected June 2025

Minor in Information and Computer Sciences

GPA: 3.5

## RESEARCH EXPERIENCE

---

### Undergraduate Researcher

June 2023 – Present

University of California, Irvine

Irvine, CA

*STAR Lab* led by Prof. Gillian Hayes

- Identifying recurring themes and concepts from qualitative data gathered through user studies on a smartwatch using the Reflective Thematic Analysis process
- Utilizing GPT-3.5 to streamline the process of identifying and extracting contextually relevant themes and concepts from user studies
- Designing and developing interactive user interfaces using Streamlit to visualize clusters of **109** different themes in order to highlight contextual and semantic similarities

### Undergraduate Research Intern

June 2024 – Aug. 2024

University of California, Berkeley

Berkeley, CA

*EPIC Data Lab* co-led by Prof. Aditya Parameswaran

- Developed a baseline for extracting key values (e.g., dates, case IDs, etc.) from **490** legal documents, totaling **32,849** pages, using GPT-4o-mini
- Implemented a semantic search-based clustering baseline to group legal documents by their contextual similarity, leveraging embeddings and similarity measures by using GPT-4o
- Built user interfaces using React.js, TypeScript, and JavaScript to visually display document analytics from legal documents

## TEACHING EXPERIENCE

---

### Learning Assistant

Jan. 2023 – Mar. 2023 & Mar. 2024 – June 2024

University of California, Irvine

Irvine, CA

Course: *Programming with Software Libraries*

- Taught Python programming concepts to a cumulative total of **65** undergraduate students across **2** quarters, most of whom were freshmen and sophomores with little to no prior programming experience
- Assisted undergraduate students with the debugging of their Python programs
- Aided undergraduate students in learning how to use Git

### Learning Assistant

Sep. 2023 – Dec. 2023

University of California, Irvine

Irvine, CA

Course: *Programming with Software Libraries Accelerated*

- Taught Python programming concepts to **50** undergraduate students that were primarily third year transfers and freshmen with prior programming experience
- Assisted undergraduate students with the debugging of their Python programs
- Helped undergraduate students transition from their prior programming experiences in languages such as Java and JavaScript to Python

## CONFERENCES AND SYMPOSIUMS

---

Eunsang, P., Cibirian, A., **Guzman, D.**, Cibirian, F., Beltran, J., Hayes, G. “Reinforcement Learning from Human Feedback for Thematic Analysis,” [Poster Presentation] University of California, Irvine Summer Undergraduate Research Fellowship Symposium, Irvine, CA, August 2024

**Guzman, D.**, Lin, Y., Parameswaran, A. “Document Clustering of Police Records: Enhancing Transparency and Accessibility,” [Poster Presentation] University of California, Berkeley Summer Undergraduate Research Fellowship Symposium, Berkeley, CA, August 2024

**Guzman, D.**, George, M., Beltran, J., Cibrian, F., Hayes, G. “Using Large Language Models to Augment Reflective Thematic Analysis for Semi-Structured Interviews,” [Poster Presentation] National Conference on Undergraduate Research, Long Beach, CA, April 2024

**Guzman, D.**, George, M., Beltran, J., Cibrian, F., Hayes, G. “Using Large Language Models to Augment Reflective Thematic Analysis for Semi-Structured Interviews,” [Poster Presentation] University of California’s Leadership Excellence through Advanced Degrees (UCLEADS) Symposium, Berkeley, CA, March 2024

**Guzman, D.**, Beltran, J., Cibrian, F., Hayes, G. “How Can ChatGPT Be Used as a Tool in Qualitative Analysis,” [Oral Presentation] University of California, Irvine Summer Undergraduate Research Fellowship Symposium, Irvine, CA, August 2023

## PROJECTS

---

**Database for UCI Capstone Projects** | *React.js, JavaScript, MongoDB, HTML, CSS* Mar. 2024 – June 2024

- Designed and implemented the web interfaces, enhancing user experience and engagement
- Developed a secure login verification system to ensure only authorized users can access the platform
- Fortified database endpoints to protect against unauthorized access and potential security threats

**Runkeeper Tweet Report** | *JavaScript, HTML, CSS* Oct. 2023 – Nov. 2023

- Analyzed **8,247** tweets mentioning the Runkeeper app and categorized them by activity type
- Discovered trends in the data and visualized them using Vega-Lite
- Developed a dynamic search table that updates based on keyword filtering of tweets

## AWARDS, GRANTS, AND DISTINCTIONS

---

**University of California Leadership Excellence Through Advanced Degrees** Aug. 2023 & Aug. 2024  
Awarded: \$8,000 (in total)

**2023 Information and Computer Sciences Diversity Conference Scholarship** Aug. 2023

**UC Irvine Chancellor’s Excellence Scholarship** Sep. 2021 – June. 2023

## TECHNICAL SKILLS

---

**Languages:** C++, Python, Java, TypeScript, JavaScript, HTML, CSS, Sass

**Frameworks & Environments:** React.js, Node.js, Angular, Streamlit, Vega-Lite, Ionic, Java Swing

**Database Systems:** MongoDB, Firebase, MySQL

**Developer Tools:** Git, Visual Studio Code, PyCharm, IntelliJ, Eclipse