# Diego Guzman

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## EDUCATION

**Emory University** *Atlanta, GA*
Ph.D. in Computer Science and Informatics (Incoming) Expected Aug. 2025 – Expected May 2030

**University of California, Irvine** *Irvine, CA*
Bachelor of Science in Informatics Sep. 2021 – Expected June 2025
Minor in Information and Computer Sciences

## RESEARCH EXPERIENCE

**Undergraduate Researcher** June 2023 – Present
*University of California, Irvine* *Irvine, CA*
[STAR Lab](#) *led by Dr. 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 Dr. 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

**Reader** Mar. 2025 – Present
*University of California, Irvine* *Irvine, CA*
*Course: Information Visualization*

- Teaching information visualization techniques for approximately **50** students through regular office hours.
- Providing grading support and feedback on student assignments.
- Collaborated on continuous updates and enhancements to course materials.

**Learning Assistant** Jan. 2023 – Mar. 2023, Mar. 2024 – June 2024 & Mar. 2025 – Present
*University of California, Irvine* *Irvine, CA*
*Course: Programming with Software Libraries*

- Teaching Python programming concepts to a cumulative total of **85** undergraduate students across **3** quarters, most of whom were freshmen and sophomores with little to no prior programming experience
- Assisting undergraduate students with the debugging of their Python programs
- Aiding 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.**, Cibrian, 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.**, 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

## Professional Organizations

**AccessComputing**, Student Member                                                                                         Feb. 2025 – Present

## 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