Diego Guzman

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Education

Emory University Aug. 2025 – Present
Ph.D. in Computer Science and Informatics *Atlanta, GA*

University of California, Irvine Sep. 2021 – Jun. 2025
Bachelor of Science in Informatics *Irvine, CA*
Minor in Information and Computer Sciences
Advisors: Dr. Armando Beltran, Dr. Franceli Cibrian, and Dr. Gillian Hayes

Research Experience

Graduate Research Assistant Aug. 2025 – Present
Emory University *Atlanta, GA*

- Recruiting participants for a matched-design user study extending prior research on visual and tactile encodings through online recruitment platforms
- Conducting a literature review to explore how individuals with central vision loss can be better supported in performing detail-oriented tasks, particularly when reading physical materials (e.g., books and newspapers)

Undergraduate Research Assistant Jun. 2023 – Jun. 2025
University of California, Irvine *Irvine, CA*

- Analyzed qualitative data from smartwatch user studies to uncover recurring themes and gain actionable insights
- Designed and developed interactive Streamlit dashboards to visualize clusters of **109 distinct themes** in order to highlight key contextual and semantic relationships
- Utilized ChatGPT 3.5's API to automate and refine the extraction of contextually relevant themes from user studies and feedback

Undergraduate Research Intern Jun. 2024 – Aug. 2024
University of California, Berkeley *Berkeley, CA*

- Developed an information retrieval system to capture key values (e.g., dates and case IDs) across **490 legal documents** totaling **32,849 pages**
- Implemented a semantic search-based clustering approach to group legal documents by contextual similarity
- Built interactive user interfaces with React.js and TypeScript to visually present comprehensive document analytics for various stakeholders (e.g., journalists and legal professionals)

Teaching Experience

Course Grader Mar. 2025 – Jun. 2025
University of California, Irvine *Irvine, CA*
Course: Information Visualization

- Graded and provided constructive feedback on roughly **125 assignments** at a time
- Responded to course-related questions on EdDiscussion, assisting an average of **10 students** per week
- Collaborated on continuous updates and enhancements to course materials

Undergraduate Learning Assistant Jan. 2023 – Jun. 2025 (3 quarters)
University of California, Irvine *Irvine, CA*
Course: Programming with Software Libraries

- Guided students through Python programming concepts to a cumulative total of **85 undergraduate students** that were primarily freshmen and sophomores with limited experience across **Winter '23, Spring '24, and Spring '25**
- Aided undergraduate students in learning how to use Git
- Assisted in proctoring a **159-student final exam** during **Spring '25**

Undergraduate 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
- Provided focused, small-group debugging instruction to **3–5 students per session**
- Helped undergraduate students transition from their prior programming experiences in languages such as Java and JavaScript to Python

Conference Publications (Peer-Reviewed)

C.1 Beltran, J. A., Mofid, H., Parikh, H., Gondaliya, J., **Guzman, D.**, Shah, J., Escobedo, L., & Cibrian, F. (2025, August). Exploring Manifold-Based Clustering Techniques for Enhanced Inductive Thematic Analysis. In *International Conference on Software Engineering of Emerging Technology* (pp. 464-480). Cham: Springer Nature Switzerland.

Conference and Symposium Presentations/Posters

P.4 Eunsang, P., Cibirian, A., **Guzman, D.**, Cibrian, F., Beltran, J., & Hayes, G. (2024). Reinforcement Learning from Human Feedback for Thematic Analysis. *University of California, Irvine Summer Undergraduate Research Fellowship Symposium.*

P.3 **Guzman, D.**, Lin, Y., & Parameswaran, A. (2024). Document Clustering of Police Records: Enhancing Transparency and Accessibility. *University of California, Berkeley Summer Undergraduate Research Fellowship Symposium.*

P.2 **Guzman, D.**, George, M., Beltran, J., Cibrian, F., & Hayes, G. (2024). Using Large Language Models to Augment Reflective Thematic Analysis for Semi-Structured Interviews. *National Conference on Undergraduate Research.*

P.1 **Guzman, D.**, Beltran, J., Cibrian, F., & Hayes, G. (2023). How Can ChatGPT Be Used as a Tool in Qualitative Analysis. *University of California, Irvine Summer Undergraduate Research Fellowship Symposium.*

Professional Organizations

AccessComputing - Student Member — Feb. 2025 – Present

Awards and Fellowships

CRA-WP Graduate Cohort Workshop Scholarship — Mar. 2026

NIH NIGMS IMSD Fellowship — Aug. 2025 - Present

Gordon Hein Scholarship — Aug. 2025
Awarded: $10,000 (Declined)

University of California Leadership Excellence Through Advanced Degrees Fellowship — Jun. 2023 – May. 2025
Awarded: $8,000

2023 UC Irvine Information and Computer Sciences Diversity Conference Scholarship — Aug. 2023

UC Irvine Chancellor's Excellence Scholarship — Sep. 2021 – Jun. 2023