

DIEGO GUZMAN

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EDUCATION

Emory University

Ph.D. in Computer Science and Informatics

Aug. 2025 – Present

Atlanta, GA

University of California, Irvine

Bachelor of Science in Informatics

Sep. 2021 – Jun. 2025

Irvine, CA

Minor in Information and Computer Sciences

Advisors: Dr. Armando Beltran, Dr. Franceli Cibrian, and Dr. Gillian Hayes

RESEARCH EXPERIENCE

Undergraduate Researcher

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 Verdugo, J., Mofid, H., Parikh, H., Gondaliya, J., **Guzman, D.**, Shah, J., Escobedo, L., & Cibrian, F. (2025). Exploring Manifold-Based Clustering Techniques for Enhanced Inductive Thematic Analysis. In *Proceedings of the 1st International Conference on Software Engineering of Emerging Technologies (SEET)*. Springer Nature.

CONFERENCE AND SYMPOSIUM PRESENTATIONS/POSTERS

P.4 Eunsang, P., Cibrian, 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
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AWARDS AND FELLOWSHIPS

NIH NIGMS IMSD Fellowship	Aug. 2025 - Present
Gordon Hein Scholarship Awarded: \$10,000 (Declined)	Aug. 2025
University of California Leadership Excellence Through Advanced Degrees Fellowship Awarded: \$8,000	Jun. 2023 – May. 2025
2023 UC Irvine Information and Computer Sciences Diversity Conference Scholarship	Aug. 2023
UC Irvine Chancellor’s Excellence Scholarship	Sep. 2021 – Jun. 2023