

# DIEGO GUZMAN

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## EDUCATION

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### 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

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### Graduate Researcher

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 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

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### 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

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## CONFERENCE PUBLICATIONS (PEER-REVIEWED)

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- 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 1<sup>st</sup> International Conference on Software Engineering of Emerging Technologies (SEET)*. Springer Nature.

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## CONFERENCE AND SYMPOSIUM PRESENTATIONS/POSTERS

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- 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*.

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## PROFESSIONAL ORGANIZATIONS

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<b>AccessComputing</b> - Student Member	Feb. 2025 – Present
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## AWARDS AND FELLOWSHIPS

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