

DIEGO GUZMAN

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EDUCATION

Emory University Ph.D. in Computer Science and Informatics	Aug. 2025 – Present <i>Atlanta, GA</i>
University of California, Irvine Bachelor of Science in Informatics Minor in Information and Computer Sciences Advisors: Dr. Armando Beltran, Dr. Franceli Cibrian, and Dr. Gillian Hayes	Sep. 2021 – Jun. 2025 <i>Irvine, CA</i>

RESEARCH EXPERIENCE

Graduate Researcher <i>Emory University</i>	Aug. 2025 – Present <i>Atlanta, GA</i>
<ul style="list-style-type: none">Recruiting participants for a matched-design user study extending prior research on visual and tactile encodings through online recruitment platformsConducting 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 <i>University of California, Irvine</i>	Jun. 2023 – Jun. 2025 <i>Irvine, CA</i>
<ul style="list-style-type: none">Analyzed qualitative data from smartwatch user studies to uncover recurring themes and gain actionable insightsDesigned and developed interactive Streamlit dashboards to visualize clusters of 109 distinct themes in order to highlight key contextual and semantic relationshipsUtilized ChatGPT 3.5's API to automate and refine the extraction of contextually relevant themes from user studies and feedback	
Undergraduate Research Intern <i>University of California, Berkeley</i>	Jun. 2024 – Aug. 2024 <i>Berkeley, CA</i>
<ul style="list-style-type: none">Developed an information retrieval system to capture key values (e.g., dates and case IDs) across 490 legal documents totaling 32,849 pagesImplemented a semantic search-based clustering approach to group legal documents by contextual similarityBuilt 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 <i>University of California, Irvine</i> <i>Course: Information Visualization</i>	Mar. 2025 – Jun. 2025 <i>Irvine, CA</i>
<ul style="list-style-type: none">Graded and provided constructive feedback on roughly 125 assignments at a timeResponded to course-related questions on EdDiscussion, assisting an average of 10 students per weekCollaborated on continuous updates and enhancements to course materials	
Undergraduate Learning Assistant <i>University of California, Irvine</i> <i>Course: Programming with Software Libraries</i>	Jan. 2023 – Jun. 2025 (3 quarters) <i>Irvine, CA</i>
<ul style="list-style-type: none">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 '25Aided undergraduate students in learning how to use GitAssisted in proctoring a 159-student final exam during Spring '25	
Undergraduate Learning Assistant <i>University of California, Irvine</i> <i>Course: Programming with Software Libraries Accelerated</i>	Sep. 2023 – Dec. 2023 <i>Irvine, CA</i>

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