

Diego Guzman

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EDUCATION

Emory University

Ph.D. in Computer Science and Informatics

Atlanta, GA

Aug. 2025 – Expected May 2030

University of California, Irvine

Bachelor of Science in Informatics

Irvine, CA

Minor in Information and Computer Sciences

Sep. 2021 – Jun. 2025

RESEARCH EXPERIENCE

Undergraduate Researcher

University of California, Irvine

Jun. 2023 – Jun. 2025

[STAR Lab](#)

Irvine, CA

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

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

Undergraduate Research Intern

University of California, Berkeley

Jun. 2024 – Aug. 2024

[EPIC Data Lab](#)

Berkeley, CA

Mentors: Dr. Yiming Lin and Dr. Aditya Parameswaran

- 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

Reader

University of California, Irvine

Mar. 2025 – Jun. 2025

Irvine, CA

Course: Information Visualization

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

Learning Assistant

University of California, Irvine

Jan. 2023 – Mar. 2023, Mar. 2024 – Jun. 2024, & Mar. 2025 – Jun. 2025

Irvine, CA

Course: Programming with Software Libraries

- Taught 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
- Assisted undergraduate students with the debugging of their Python programs
- Aided undergraduate students in learning how to use Git

Learning Assistant

University of California, Irvine

Sep. 2023 – Dec. 2023

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

PEER-REVIEWED PUBLICATIONS

- [C1] Beltran Verdugo, J., Mofid, H., Parikh, H., Gondaliya, J., **Guzman, D.**, Shah, J., Escobedo, L., & Cibrian, F. (in press). Exploring Manifold-Based Clustering Techniques for Enhanced Inductive Thematic Analysis. In *Proceedings of the 1st International Conference on Software Engineering of Emerging Technologies (SEET)*.

CONFERENCE PRESENTATIONS AND POSTERS

- [P4] 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*.
- [P3] **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*.
- [P2] **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*.
- [P1] **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, GRANTS, AND DISTINCTIONS

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

TECHNICAL SKILLS

Languages: C++, Python, Java, TypeScript, JavaScript, HTML, CSS, Sass
Frameworks & Environments: React.js, React Native, Node.js, Angular, Streamlit, Vega-Lite, Ionic, Java Swing
Database Systems: MongoDB, Firebase, MySQL
Developer Tools: Git, Visual Studio Code, Arduino, PyCharm, IntelliJ, Eclipse, L^AT_EX