

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

Jun. 2023 – Jun. 2025

University of California, Irvine

Irvine, CA

[STAR Lab](#), 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

Jun. 2024 – Aug. 2024

University of California, Berkeley

Berkeley, CA

[EPIC Data Lab](#), Advisors: 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

Mar. 2025 – Jun. 2025

University of California, Irvine

Irvine, CA

Course: *Information Visualization*

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

Learning Assistant

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

University of California, Irvine

Irvine, CA

Course: *Programming with Software Libraries*

- Teaching 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
- Assisting undergraduate students with the debugging of their Python programs
- Aiding undergraduate students in learning how to use Git

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
- 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

PUBLICATIONS

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 2025)*.

PROFESSIONAL ORGANIZATIONS

AccessComputing, Student Member Feb. 2025 – Present

AWARDS, GRANTS, AND DISTINCTIONS

University of California Leadership Excellence Through Advanced Degrees Awarded: \$8,000 (in total)	Aug. 2023 & Aug. 2024
2023 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