Diego Guzman

diego.guzman.gonzalez@emory.edu | [LinkedIn](#) | [Portfolio](#) | [Github](#)

EDUCATION

Emory University   *Atlanta, GA*
Ph.D. in Computer Science and Informatics   Aug. 2025 – Expected May 2030

University of California, Irvine   *Irvine, CA*
Bachelor of Science in Informatics   Sep. 2021 – Jun. 2025
Minor in Information and Computer Sciences

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

- 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   Jan. 2023 – Mar. 2023, Mar. 2024 – Jun. 2024, & Mar. 2025 – Jun. 2025
University of California, Irvine   *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   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 Fellowship   Jun. 2023 – May. 2025
Awarded: $8,000 (in total)

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, LaTeX