Diego Guzman

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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

- 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

Conferences and Symposiums

Eunsang, P., Cibirian, A., **Guzman, D.**, Cibrian, F., Beltran, J., Hayes, G. "Reinforcement Learning from Human Feedback for Thematic Analysis," [Poster Presentation] University of California, Irvine Summer Undergraduate Research Fellowship Symposium, Irvine, CA, August 2024

Guzman, D., Lin, Y., Parameswaran, A. "Document Clustering of Police Records: Enhancing Transparency and Accessibility," [Poster Presentation] University of California, Berkeley Summer Undergraduate Research Fellowship Symposium, Berkeley, CA, August 2024

Guzman, D., George, M., Beltran, J., Cibrian, F., Hayes, G. "Using Large Language Models to Augment Reflective Thematic Analysis for Semi-Structured Interviews," [Poster Presentation] National Conference on Undergraduate Research, Long Beach, CA, April 2024

Guzman, D., Beltran, J., Cibrian, F., Hayes, G. "How Can ChatGPT Be Used as a Tool in Qualitative Analysis," [Oral Presentation] University of California, Irvine Summer Undergraduate Research Fellowship Symposium, Irvine, CA, August 2023

Professional Organizations

AccessComputing, Student Member   Feb. 2025 – Present

Awards, Grants, and Distinctions

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

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, LaTeX