

# Diego Guzman

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## EDUCATION

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### Emory University

Ph.D. in Computer Science and Informatics

Aug. 2025 – Present

Atlanta, GA

### University of California, Irvine

Bachelor of Science in Informatics

Sep. 2021 – Jun. 2025

Minor in Information and Computer Sciences

Irvine, CA

## RESEARCH EXPERIENCE

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### Undergraduate Researcher

University of California, Irvine

Jun. 2023 – Jun. 2025

Irvine, CA

[STAR Lab](#)

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

- Analyzed qualitative data from smartwatch user studies to uncover recurring themes and gain actionable insights
- Designed and developed interactive Streamlit dashboards to visualize clusters of **109 distinct themes** in order to highlight key contextual and semantic relationships
- Utilized ChatGPT 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

Berkeley, CA

[EPIC Data Lab](#)

*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

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### Course Grader

University of California, Irvine

Mar. 2025 – Jun. 2025

Irvine, CA

*Course: Information Visualization*

- Provided grading support and feedback on student assignments
- Taught information visualization techniques for approximately **50 students** through regular office hours
- 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

## CONFERENCE PUBLICATIONS (PEER-REVIEWED)<sup>1</sup>

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- [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 1<sup>st</sup> International Conference on Software Engineering of Emerging Technologies (SEET)*. Springer Nature.

## CONFERENCE AND SYMPOSIUM PRESENTATIONS/POSTERS<sup>2</sup>

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- [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

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**AccessComputing** - Student Member Feb. 2025 – Present

## AWARDS AND DISTINCTIONS

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**NIH NIGMS IMSD Fellowship** Aug. 2025 - Present

**Gordon Hein Scholarship** Aug. 2025

Awarded: \$10,000 (Declined)

**University of California Leadership Excellence Through Advanced Degrees Fellowship** Jun. 2023 – May. 2025

Awarded: \$8,000

**2023 UC Irvine Information and Computer Sciences Diversity Conference Scholarship** Aug. 2023

**UC Irvine Chancellor's Excellence Scholarship** Sep. 2021 – Jun. 2023

## TECHNICAL SKILLS

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**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<sup>A</sup>T<sub>E</sub>X

<sup>1</sup>**C:** Conference Publications (Peer-Reviewed); <sup>2</sup>**P:** Conference and Symposium Presentations/Posters