Diego Guzman

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EDUCATION

University of California, Irvine   *Irvine, CA*
Bachelor of Science in Informatics (emphasis in Human-Computer Interaction)   Sep. 2021 – Expected June 2025
Minor in Information and Computer Sciences
GPA: 3.4

RESEARCH EXPERIENCE

Undergraduate Researcher   June 2023 – Present
University of California, Irvine   *Irvine, CA*
[STAR Lab](#) led by Prof. Gillian Hayes
- Identifying recurring themes and concepts from qualitative data gathered through user studies on a smartwatch using the Reflective Thematic Analysis process
- Utilizing GPT-3.5 to streamline the process of identifying and extracting contextually relevant themes and concepts from user studies
- Designing and developing interactive user interfaces using Streamlit to visualize clusters of **109** different themes in order to highlight contextual and semantic similarities

Undergraduate Research Intern   June 2024 – Aug. 2024
University of California, Berkeley   *Berkeley, CA*
[EPIC Data Lab](#) co-led by Prof. Aditya Parameswaran
- Developed a baseline for extracting key values (e.g., dates, case IDs, etc.) from **490** legal documents, totaling **32,849** pages, using GPT-4o-mini
- Implemented a semantic search-based clustering baseline to group legal documents by their contextual similarity, leveraging embeddings and similarity measures by using GPT-4o
- Built user interfaces using React.js, TypeScript, and JavaScript to visually display document analytics from legal documents

TEACHING EXPERIENCE

Learning Assistant   Jan. 2023 – Mar. 2023 & Mar. 2024 – June 2024
University of California, Irvine   *Irvine, CA*
Course: Programming with Software Libraries
- Taught Python programming concepts to a cumulative total of **65** undergraduate students across **2** 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

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., George, M., Beltran, J., Cibrian, F., Hayes, G. "Using Large Language Models to Augment Reflective Thematic Analysis for Semi-Structured Interviews," [Poster Presentation] University of California's Leadership Excellence through Advanced Degrees (UCLEADS) Symposium, Berkeley, CA, March 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

Projects

Database for UCI Capstone Projects | *React.js, JavaScript, MongoDB, HTML, CSS*   Mar. 2024 – June 2024
- Designed and implemented the web interfaces, enhancing user experience and engagement
- Developed a secure login verification system to ensure only authorized users can access the platform
- Fortified database endpoints to protect against unauthorized access and potential security threats

Runkeeper Tweet Report | *JavaScript, HTML, CSS*   Oct. 2023 – Nov. 2023
- Analyzed **8,247** tweets mentioning the Runkeeper app and categorized them by activity type
- Discovered trends in the data and visualized them using Vega-Lite
- Developed a dynamic search table that updates based on keyword filtering of tweets

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 – June. 2023

Technical Skills

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