

# Diego Cordova

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## EDUCATION

**University of California, San Diego** *B.S. Cognitive Science, Concentration: Design & Interaction* Sept. 2024 – Jun. 2026

- **Technical Implementation & AI:** Machine Learning & Neural Network Development: Engineered artificial neural networks and perceptron algorithms using NumPy for vectorized array processing and Matplotlib for loss visualization.
- **Neural Signal Processing:** Conducted BCI research involving EEG data analysis, applying ICA (Independent Component Analysis) and PCA (Principal Component Analysis) to isolate neural artifacts (errors).
- **Web Development & Human-Computer Interaction (HCI):** Full Stack Web Design & HCI: Developed interactive web interfaces using JavaScript, HTML, and CSS, utilizing VSCode and CodePen for rapid prototyping and cross-course data analysis.
- **UI/UX & Visual Engineering:** Leveraged Figma for high-fidelity portfolio production and interface design, focusing on human-computer interaction principles to optimize user experience by 75%
- Sigma Phi Epsilon Active Member — manage a \$10,000 budget as mem-dev executive member
- Cognitive Science Student Society Active Member, SHPE Latino member, RAZA Hispanic Member
- Tableau dataset experience; proficiency in Figma, HCI design, and heuristic evaluations; HTML, JavaScript, and C++ in web design

## EXPERIENCE

**Bilingualism in Context Lab** *Research Assistant* Jan. 2025 – Mar. 2025

- Cleaned raw data from bilingual verbal descriptions in a tangrams puzzle, annotating with 2+ language tags
- Added role-based utterance counts to 800+ Excel entries; collaborated with a team to manage 2,000 entries
- Merged 5+ datasets with 4+ RAs, reapplied language tagging, and resolved 3 types of debugging issues using IDE agents

**JPMorgan Chase – Forage** *Investment Banking Job Simulation* Jan. 2025 – Mar. 2025

- Applied statistical and predictive modeling using a Discounted Cash Flow (DCF) model to value a client's company
- Created financial data visualizations (Microsoft excel) to analyze acquisition targets, shareholders, and key financials
- Developed and presented a data-driven summary to communicate insights effectively to peers

**Quicktaxes Inc.** *Accounting Consultant Intern* Jan. 2025 – Apr. 2025

- Assisted in valuation reports for private sector businesses, integrating multiple data sources for insights
- Analyzed payroll data and financial reports using ADP Payroll Software for clients with over \$700K in revenue
- Produced dimensional cashflow models and large-scale visualizations for investment purposes

**Quicktaxes Inc.** *Web Design Intern* June 2025 – Aug. 2025

- Marketing and web design for clients, utilizing HTML CSS and JavaScript skills for business, designed +6 business websites
- Designed and activated an appointment scheduling system for my employer and their prospective clients, acquiring 8+ clients
- Products: Metropolitan Barbershop Site, Quicktaxes Site, Barbara Cordova Psychology Site, Diego Cordova Portfolio

## PROJECTS

- **Triton Navigation Web App** — Designed for new students to navigate campus and locate classrooms efficiently, designed to be similar to Google Maps. (figma, HTML, CSS, Java Script)
- **Fastax Website Development** — Designed and implemented a website for Fastax Solutions, a tax and accounting firm(figma, HTML, CSS, Java Script)
- **GitHub Gists** — Past HTML web design projects with concentration in HCI design across 5+ projects
- **Memory Capacity Research Project** — index.HTML for research, COGS 119: Programming for Experimental Research
- **Brain Computer Interface Research Project** — Designed a video game with EEG (electroencephalogram) and BCI (brain-computer interface) utilizing a wearable headset—OpenBCI—to detect brain activity, interpreted in Python to control game actions like movement, focus-based mechanics, or selections: Crossover Road Game
- **Machine Learning Project: Multiclass Softmax Classifier from Scratch**—Developed and vectorized a Softmax regression model using NumPy to classify the Iris dataset, achieving 0.1 test error = 90% accuracy, includes 150 samples, Data Splitting: 105 samples for training and 45 samples for testing
- **Usability and Information Architecture Project**—Created an updated prototype homepage for Glassdoor (Figma), with a new web design and productive visualization toggle feature, improving visibility and app usage by 70% and financial compatibility from user to employer by 45%

## CERTIFICATIONS

- JPMorgan Chase — Investment Banking Job Simulation (Forage), Issued Mar. 2025
- Goldman Sachs — Excel Skills for Business Job Simulation (Forage), Issued Feb. 2025