

# Xiaoxuan Zhang

Eligible to work for any U.S. employer | Willing to relocate and travel  
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An energetic and trustworthy student with excellent time management skills. Staying excited for new challenges, striving to explore new horizons, and thriving in teams. I served as a team lead multiple times for software development and machine learning deployment projects during my past 3 years at UC San Diego. I have curated my projects on my personal website: <https://andrinazxx.github.io/>.

## EDUCATION

**University of California – San Diego** (with B.S. / B.A. double majors) *September 2020 – Expected June 2024*  
Bachelor of Science in Machine Learning & Neural Computation (Cognitive Science) Overall GPA: 3.87  
Bachelor of Arts in Interdisciplinary Computing and the Arts (Computer Music & Music Technology) Major GPA: 4.0  
Minor in Computer Science & Engineering

## WORK EXPERIENCE

**Software Development Engineer** – Qualcomm Institute, San Diego, CA *June 2022 – Present*

- Leading the team on implementing Fast Fourier Transform and Convolution in python and Pure Data.
- Deploying real-time adaptive acoustic models for beamforming algorithm with MATLAB, Pure Data and C++.
- Constructed and maintained QI Sonic Arts Official Website with CMS platform and HTML/CSS.
- Created Web scraping tools in Python with Beautiful Soup for following data collection and applied analysis.
- Generated HRTF filters with MATLAB codes and given databases.

**Data Analyst and Market Researcher** – LIMBER Prosthetics and Orthotics, San Diego, CA *July 2023 – Present*

- Led a team of 4: Analyzed, designed and introduced innovative strategy to LIMBER about entering international markets.
- Applied exploratory data analysis and visualization with Geopandas in Python and proficient research analysis skills.

**Instructional Assistant for “Introduction to Python”** – UC San Diego *August 2021 – March 2022*

- Led weekly review sessions and office hours. Hosted two Coding Labs and help students to debug in Python.
- Worked on and graded Coding Labs Assignments and Exams throughout the quarter.

**E-Commerce Marketing (VMS) Intern** – GlaxoSmithKline (GSK), Shanghai, China *January 2021 – June 2021*

- Helped organizing in promoting products in three top-tier E-commerce holiday campaigns on the top e-commerce platforms.
- Collected and analyzed data to provide consumer insights from E-commerce campaigns.
- Coordinated and managed meeting plans, collected meeting information, and created marketing materials.

## LEADERSHIP EXPERIENCE

12 projects on my website: <https://andrinazxx.github.io/> with Python, OpenCV, PyTorch, C, Pure Data and various programming skills

**Music Genre Classification implementing kNN, SVM, CNN and RNN**

- Led a team of 5, organized the meetings and frequently met the professor and the teaching assistants.
- Applied Exploratory Data Analysis and Data Visualization skills, after collected dataset and wrangled the data.
- Implemented the Convolutional Neural Network. Tested the algorithm and fine-tuned the hyperparameters on GPU.
- Used: **Python** (PyTorch, scikit learn, seaborn, numpy, pandas...), **Data Analysis, Data Visualization, Leadership, PM**

**Neural Networks and SVR implementation for earthquake prediction**

- Led a team of 4, organized the meetings and frequently met the professor and edited the video for final presentation.
- Raised the research question and hypothesis; collected dataset and wrangled the data.
- Implemented the neural network model individually. Tested the algorithm and fine-tuned the hyperparameters with teammates.
- Used: **Python** (TensorFlow, geopandas, matplotlib...), **Data Analysis, Leadership, Project Management, Public Speaking**

**Data Analysis on relationship between Outage Duration Time in the U.S. and Factors**

- Co-Led a team of 5; managed meetings among the group and with the professor; organized presentation.
- Led the designing of Research Hypothesis, drawing Conclusion, and raising future Discussion on the report.
- Cleaned the dataset, wrangled the data, and contributed to most of the Exploratory Data Analysis (EDA).
- Used: **Python** (pandas, seaborn...), **Data Analysis, Data Visualization, Project Management, Public Speaking**

## SKILL SET

<b>Technical Skills</b>	Python, Java, MATLAB, C++, C, Pure Data, Max/MSP, Xcode, LaTeX, Git, JavaScript, DSP, CAD, MS Office
<b>Production</b>	Ableton Live (Production, Mixing & mastering), Pro Tools, Final Cut Pro, Adobe Creative Suite, Figma, Canva
<b>Soft Skills</b>	Leadership, Critical thinking, Collaboration in teams / with team leads, Detail Oriented, Time Management

## ORGANIZATIONS

**EMG prediction and applied machine learning prosthetics** – Triton NeuroTech at UCSD ECE *March 2023 – Present*

- Analyzing EMG data of fingers to realize movement prediction, which can feed back to the prosthetic hand (created by our hardware group) to automate its finger movement.

**IoT Spotify Remote** – Project in Box at UCSD ECE *October 2022 – December 2022*

- Applied a Wi-Fi microchip to navigate through Spotify API, which makes our team able to have an IoT controller for our playlist.