

Xiaoxuan (Andrina) Zhang

San Diego, CA | (858) 319-9393 | xiz031@ucsd.edu | <https://www.linkedin.com/in/andrina-zhang/>

I'm a 3rd year student majoring Machine Learning & Neural Computation with a deep interest in Interdisciplinary Computing Arts & Music and their effects to the world. Staying excited for new challenges, striving to explore new horizons, bringing aesthetics to life through programming. My personal website is <https://andrinazxx.github.io/>.

EDUCATION

University of California – San Diego

September 2020 – Expected June 2024

Bachelor of Science in **Machine Learning and Neural Computation**

Overall GPA: 3.87

Bachelor of Arts in **Computer Music and Music Technology**

Major GPA: 4.0

Minor in **Computer Science and Engineering**

EXPERIENCE

Illumina x UC San Diego Basement Innovation Sprints Challenge

Data Analyst and Marketing Researcher

Jun. 2023 – Present

Creating a detailed analysis of Service & Support clinical market including:

- Competitor products and identified markets; Competitor and customer sizing; Customer Service & Support needs

University of California – San Diego, La Jolla, California

Software Development Engineer Intern – Qualcomm Institute / Calit2

Jun. 2022 – Present

Sonic Arts Research & Development

- Implementing and designing the beamforming GUI with Tkinter in Python.
- Deploying and transforming the beamforming algorithm from MATLAB to Python.
- Utilized CMS platform and HTML to construct and maintain QI Sonic Arts Official Website.
- Created Web scraping tools in Python with BeautifulSoup for data collection and applied analysis.
- Generated HRTF filters with MATLAB codes and given databases.
- Used: **Python** (Keras, OpenCV, Tkinter, numpy, pandas, BeautifulSoup), **MATLAB**, **Max/MSP**, **Pure Data**

Lab Assistant – Biological Sciences Department Dr. Julian Schroeder's Lab

May 2022 – Present

Senior Student Affair Programming Assistant

Jun. 2022 – Dec. 2022

Research Assistant / Project Manager

Mar. 2022 – Jun. 2022

Python Tutor / Instructional Assistant

Jan. 2021 – Mar. 2022

GlaxoSmithKline (GSK), Shanghai, China

Jan. 2021 – Jun. 2021

E-Commerce Marketing VMS Intern

Signify N. V. (Philips Lighting N.V.), Shanghai, China

Sep. 2020 – Nov. 2020

Digital Marketing Intern

Content Creator - Freelance video producer

Mar. 2018 – Aug. 2020

PROJECT HIGHLIGHTS (More projects on my website: <https://andrinazxx.github.io/>)

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.
- Collected dataset and wrangled the data.
- Applied Exploratory Data Analysis and Data Visualization skills.
- Implemented the Convolutional Neural Network. Tested the algorithm and fine-tuned the hyperparameters on GPU.
- Project details: <https://andrinazxx.github.io/ML-musGenre.html>
- Used: **Python** (PyTorch, scikit learn, seaborn, numpy, pandas), **Leadership**, **Project Management**

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.
- Project details: <https://andrinazxx.github.io/ML-earthqk.html>
- Used: **Python** (TensorFlow, Keras, geopandas, matplotlib, pandas), **Leadership**, **Project Management**, **Final Cut Pro**

SKILLS

Programming Skills

Python (OpenCV, PyTorch, PyGame, Tkinter, etc.), Java, C, MATLAB, Pure Data, HTML/CSS, LaTeX, Git

Production

Ableton Live (Production, Mixing & mastering), Pro Tools, Pure Data, Final Cut Pro

Soft Skills

Leadership, Critical thinking, Collaboration in teams / with team leads, Detail Oriented, Time Management

ORGANIZATIONS

- Triton NeuroTech at UCSD ECE, in **Prosthetics – Machine Learning team** [March 2023 - present]
- Project in Box at UCSD ECE, **Project committee – “Spotify Remote” project** [October 2022 – December 2022]
- Cognitive Science Student Association at UCSD, **Digital Content Production Chair** [May 2022 – June 2023]