

Xiaoxuan (Andrina) Zhang

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I'm a creator, in multiple dimensions. Here is my website: <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 **Interdisciplinary Computing and the Arts – Computer Music**

Major GPA: 4.0

EXPERIENCE

Illumina x UC San Diego Basement Innovation Sprints Challenge

Data Analyst and Marketing Researcher

Jul. 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

Jun. 2022 – Present

Sonic Arts Research & Development – Qualcomm Institute / Calit2

- Implementing and designing the beamforming with GUI library in C++.
- Breaking down Fourier Transform implementation step by step in Python and C++.
- Deploying and transforming the beamforming algorithm from MATLAB to Python and C++.
- Utilized CMS platform and HTML/CSS to construct and maintain QI Sonic Arts Official Website.
- Created Web scraping tools in Python with BeautifulSoup for following data collection and applied analysis.
- Generated HRTF filters with MATLAB codes and given databases.
- Used: **C++** (wxWidget, OpenCV), **Python** (Keras, Tkinter, numpy, pandas, bs4), **MATLAB**, **Max/MSP**, **Pure Data**, **HTML/CSS**

Python Tutor / Instructional Assistant

Aug. 2021 – Mar. 2022

- Hosted review sessions, office hours and two Coding Labs per week.
- Helped students to debug in Python; designed and graded Coding Labs Assignments, Exams throughout the quarter.

GlaxoSmithKline (GSK), Shanghai, China

Jan. 2021 – Jun. 2021

E-Commerce Marketing VMS Intern

- Participated in three top-tier E-commerce holiday campaigns on Taobao and Jingdong Mall – the top two e-commerce platforms in China.
- Collected and analyzed data to provide consumer insights from E-commerce campaigns.
- Coordinated meeting plans, attended meetings, gathered information, and created marketing materials, including interactions with the ProMotion system.

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

Sep. 2020 – Nov. 2020

Digital Marketing Intern

- Production management and content creation.
- Collaboration with the engineers to shoot the videos for the products.
- Production of 12 tutorial videos that are designed for customers over the globe.

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.
- 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.
- Used: **Python** (TensorFlow, Keras, geopandas, matplotlib, pandas), **Leadership**, **Project Management**, **Final Cut Pro**

SKILLS

Programming Skills

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

Production

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

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]
- Cognitive Science Student Association at UCSD, **Digital Content Production Chair** [May 2022 – June 2023]