

Pai Peng

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OVERVIEW

As a **bilingual in Spanish and Chinese**, I bring a distinctive global perspective shaped by my experiences across different countries. I moved and lived Spain since I was 12 years old until my sophomore year in an A.I. Degree at a university in Spain. After gaining admission to a prestigious U.S. university for Computer Science, I made the decision to relocate to the United States in pursuit of a higher-quality education and broader opportunities. I am actively seeking a **Data Scientist intern or Software Developer intern**

EDUCATION

Double major in Computer Science & in Data Science | current GPA 3.9~

University of Wisconsin-Madison

Transferred Dec. 2022 -

- 2023 Spring Dean's List

BSC. in Artificial Intelligence (European Union supported) | score: 8.9/10

Autonomous University of Barcelona

Sept. 2021 - Dec. 2022

- Course-Honor in Linear Algebra and Programming

- Data Engineering, Machine Learning, Multivariable Calculus, Statistic, Computer Vision - **score:**

Outstanding

RESEARCH EXPERIENCE

Undergraduate Researcher: Machine Learning Strategy for Demixing Chemical Components in Complex Mixtures | University of Wisconsin-Madison

Feb. 2023 -

- Preprocessed the chemical data into characteristic peaks using **Clusters and Raman Spectra properties**

- Converted characteristic chemical peaks into **Machine Learning readable formats**

- Used Grid-Search to find the **optimal hyperparameters** self-defined classes

- **Visualized** the model's learning process using **TensorBoard and Matplotlib**

- Potential **First Author** of the paper

Supervisor: [H. Wei](#)

Research Assistant: **Benchmarking different Deep Learning Low Light Image Enhancement Algorithms** | Computer Vision Center Barcelona

July 2021 - Dec. 2022

- Automated image **dataset acquisition** by controlling light conditions using Python

- Automated **lab devices using C#** detect the real saturation and brightness of the image acquired

- **Tested deep learning algorithms** that augment Low Light images

- Acquired a Lab-condition based Low Light Image dataset using **OpenCV**

Supervisor: [J. Vázquez Corral](#)

PROJECTS & ORGANIZATIONS

Finalist Team at Aguas de Barcelona Data Challenge

Sept. 2022 - Dec. 2022

Team Leader

- Implemented an AI model namely **NeuralProphet** for anomaly detection and consumption prediction purposes.

- Streamlined the detection process for different districts in Barcelona

[Demo in Spanish](#)

Spam Email Detection

Sept. 2022 - Oct. 2022

- Implemented **DNN, SVM and Random Forest** to determine spam emails.

- achieved a precision rate of **94%**.

- Designed a new metric namely phi which showed the potential to improve the spam detection.

Boston Housing Price Prediction - Baseline with SVR

Chinese Student Association at UAB - Head of Department of Planning

2021 - 2022

- Planned several small engagement events

[News interview at La Fundació UAB](#)

PROFESSIONAL SKILLS

Programming Languages: Python, Java, C++, SQL, C#, R, Prolog, Matlab

Machine Learning: Pytorch, TensorFlow, Steamlit, Pandas, Numpy, matplotlib, OpenCV

Language Skills: Bilingual in Spanish and Chinese Fluent in English and Intermediate in Catalan

