

Pai Peng

ppeng24@wisc.edu | **Junior** | +1 608 471 2501 | +34 688 229 229 | [LinkedIn](#) | Expected Graduation in 2025

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 top 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/Data Engineer 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 - **Outstanding**

RESEARCH EXPERIENCE

Undergraduate Researcher: Machine Learning for Demixing Components in Complex Mixtures |

UWisconsin-Madison

Feb. 2023 -

- Transformed chemical signals into characteristic peaks(CP) using **Clusters and Raman Spectra properties**

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

- Used Grid-Search to find the **optimal hyperparameters** for the deep learning models

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

- **First Author Candidate** 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 of different YCbCr scale** by controlling light conditions using python
OpenCV

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

- **Tested deep learning algorithms such as KinD, KinDPlus+ and Zero-Reference** that augment Low Light images

Supervisor: [J. Vázquez Corral](#)

PROJECTS & ORGANIZATIONS

Finalist Team at Aguas de Barcelona Data Challenge

Sept. 2022 - Dec. 2022

Team Leader

- Deployed an AI model named **NeuralProphet**, a combination of the ARIMA and Neural Network, for time-series water consumption anomaly detection and prediction.

- Streamlined the **anomaly detection** based on geolocation, time, tourism, and the number of water meters in each zone.

- Conducted analysis on domestic water consumption following the impact of **COVID and the recovery of tourism.**

- Selected as one of the Data Science Finalist Projects.

[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** s showed the potential to improve the spam detection.

Chinese Student Association at UAB - Head of Department of Planning

2021 - 2022

- Organized and 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**

