

# Jose A. Espino Pitti

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## Career Objective

### EDUCATION

*Bachelor of Engineering*

The University of Hong Kong, expected 2025

**Concentration:** Computer Engineering

**Minors:** Urban Infrastructure Informatics & Sustaining Cities, Cultures, and the Earth

**Relevant Coursework:** Machine Learning, Computer Vision, Embedded System Design, Probabilistic System Analysis, Computer Organisation and Microprocessors, Data Science, Electronic Circuits, Digital System Design

**Current GPA:** 3.9 (on a 4.3 scale)

### SKILLS

*Programming Languages:* Python, Kotlin, R, Java, C, C++, C#, & VBA

*Frameworks & Tools:* NumPy, Linux, PyTorch, TensorFlow, Git, Microsoft PowerBI, Bash, L<sup>A</sup>T<sub>E</sub>X, CAD, Logism, RARS, HuggingFace, VHDL, Keras, Scikit-learn, Azure, Android Studio, MySQL, Figma, Unity

*Research Interests:* Natural Language Processing, Multilinguality, Machine Translation, Computer Vision, Robotics, Signal Processing

### EXPERIENCE

*Part-time Research Assistant at HKU STAR Lab* February 2025 to present  
Conduct research on optimising the performance of Graph Neural Networks and their applicability to social good-related projects.

*Part-time Student Research Assistant (AI) at HKU Innovation Wing* October 2023 to present

Develop and present workshops on Machine Learning targeted towards HKU students. Prototype and implement Computer Vision and NLP models for both research and industry purposes.

*E&M Intern at MTR Corporation* June 2024 to August 2024

Automate data processing and analysis for the E&M department, evaluate and contribute to AI-based company-wide projects, analyse human factor issues in new projects, and assist in the development of the department's digital transformation strategy.

*Machine Learning Research Intern at DaytaAI* June 2023 to September 2023

Implemented Computer Vision algorithms on a cloud production environment, constructed and enhanced inference pipelines, assisted in CV and NLP research, developed tools to build a systematic research and testing pipeline.

*Teaching Assistant at HKU* September 2022 to December 2022

Designed tutorial classes for ENGG1330, guided groups of around 20 undergraduates in problem solving with Python, clarified concepts and assessed their performance.

*Tutoring*

March 2019 to Present  
Instructed 40+ students, crafted instructional activities, and composed engaging lesson plans for primary school students in English, French, Spanish, & Maths.

**ACTIVITIES**      *Head of Finance Team of Harvard College Asia Pacific Conference – 2023-2024 Session, HKU Chapter*  
Budget and manage financial aspect of the conference, liaise with sponsors and partners, oversee the financial team.

*Founder and Chairperson of Chi Sun College Spanish Club*  
Plan and deliver beginner-level Spanish language classes, provide targeted feedback to members of the club, organise activities that highlight Latin American culture.

*General Secretary of HKU Rowing Club — 2022-2023 Session*  
Responsible for the team's internal and external communications, documenting meeting records and performing a wide variety of administrative work.

- HONOURS**
- YMCA Global Citizen Campaign Gold Award (2024)
  - HKU Dean's Honours List (2021–2022, 2022–2023, 2023–2024)
  - HKU Undergraduate Scholarship for Outstanding Academic Talents
  - HKU Foundation Entrance Scholarship
  - One of six students representing HKU at the HKAES 2023–2024 Pitch Competition on Global Grand Challenges
  - Leadership as a Practice Certification (Global Citizen Year)
  - Leadership Development Winter Certificaton (HKU)
  - Global Citizen Micro-credential (Universitas 21)
  - Remarkable Citizen of the Year title alongside four debate teammates (Panamanian Ministry of Economy and Finances)

- NATURAL LANGUAGES**
- **Fluent:**  
Spanish (native), English, French, Portuguese, Galician, German
  - **Advanced:**  
Cantonese, Italian, Dutch, Japanese, Haitian Creole, Indonesian
  - **Intermediate:**  
Mandarin

- Certifications**      A full list can be found [here](#). My notes from each course are available [here](#).
- **Meta Android Developer Professional Certificate** (Coursera), **in progress**.  
Thirteen courses: *Introduction to Android Mobile Application Development, Version Control, Programming Fundamentals in Kotlin, Principles of UX/UI Design, Create the User Interface in Android Studio, Advanced Programming in Kotlin, Working with Data in Android, Advanced Android Development, Mobile Development and JavaScript, React Basics, React Native, Android App Capstone*, and *Coding Interview Preparation*
  - **Deep Learning Specialization** (Coursera), obtained in July 2023.  
Five courses: *Neural Networks and Deep Learning, Improving Deep Neural Networks, Structuring Machine Learning Projects, Convolutional Neural Networks*, and *Sequence Models*
  - **Machine Learning Specialization** (Coursera), obtained in June 2023.  
Three courses: *Supervised Machine Learning: Regression and Classification, Advanced Learning Algorithms*, and *Unsupervised Learning, Recommenders, Reinforcement Learning*

- **Python for Everybody Specialization** (Coursera), obtained in August 2020.  
Five courses: *Programming for Everybody*, *Python Data Structures*, *Using Python to Access Web Data*, *Using Databases with Python*, and *Capstone: Retrieving, Processing, and Visualizing Data with Python*