

Henry, Wai Yin WONG

Resume

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SUMMARY

Data Scientist with 4 YoE in machine learning (ML), Bayesian statistics, and software development. Researcher, package maintainer, PyCon HK 2024 Speaker, Google PM Certified.

WORK EXPERIENCE

JUNE 2024 – PRESENT

Associate Data Scientist (non-trainee)

OOCL, Hong Kong

- Develop optimization algorithms for bunker procurement, achieving up to \$5M/yr savings in pilot scope.
- Design and implement Python SDK for Spark data pipelines, develop RESTful API to serve predictions.
- Developed Chatbot web application for internal usage.

AUG 2021 – PRESENT (PT)

Research Assistant

LIGO Scientific Collaboration, United States

- Designed a Bayesian framework for ancestral parameter estimation (PE) of black holes (2404.00720).
- Developed statistical models to filter signals, achieving >99% filtering efficiency at a FPR of 0.01 (2112.05932).
- Develop a deep-learning-based method for PE.

AUG 2023 – JUN 2024

Assistant R&D Engineer

ATAL Engineering Group, Hong Kong

- Developed solutions for fault detection, survival analysis, and HVAC energy optimization using physics-guided ML, achieving up to 20% reduction in electricity consumption.
- Implemented RESTful APIs and integrated with AWS cloud services, and worked on database schema design.

JUN 2022 – AUG 2023

Software Engineer

Sebit Company Ltd., Hong Kong

- Developed deep learning solutions for object detection and tracking, enhanced accuracy from 93% to 97%.
- Developed data pipeline for IoT sensors, and designed fault detection methods for lifts (Lift Symposium 2023).

EDUCATION

2024 – PRESENT

M.Sc. in Data Science (PT)

The University of Texas at Austin

2018 – 2022

B.Sc. in Physics

The Chinese University of Hong Kong

SIDE PROJECTS

SINCE 2023

archo

Package for Bayesian ancestral PE (Used by 3 papers, >40k downloads).

SINCE 2022

classifier-trains

Package for low-code image classifier training with PyTorch Lightning.

PUBLIC SPEAKING

Python User Group 2025

A Taste of MCP Architecture

PyCon HK 2024

Spare Efforts with PyTorch Lightning

Python User Group 2024

Dependency Management (Poetry)

48th Exhibition of Inventions

Intelligent Lift Door Inspector

SKILLS

Language: English / Cantonese / Japanese / Mandarin

Programming: Python (main) / SQL / Js / C++ / Go / Bash / Spark

DevOps: Docker / ansible / Jenkins / Helm / GitHub Actions / GitLab CI

Full CV: wylhwong.github.io/cv