

Wangpok Tse

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EDUCATION

The University of Hong Kong B.Eng. in Computer Engineering (Dual Degree Program)	Hong Kong SAR 9.2022 – 6.2027
The University of Hong Kong B.B.A. in Finance (Dual Degree Program)	Hong Kong SAR 9.2022 – 6.2027

PROFESSIONAL EXPERIENCE

PlayVision Games AI Computer Vision Engineer	Hong Kong SAR 12.2025 – Present
BPS Global Group AI Developer Intern	Hong Kong SAR 6.2025 – 9.2025
SmartAge Intelligence AI Data Scientist Intern	Hong Kong SAR 12.2023 – 1.2024
HKUST Intelligent Graphics Lab (Led by Prof. Yuan Liu) AI Research Assistant	Hong Kong SAR 6.2025 – Present
HKU Computer Graphics and Visualization Lab (Led by Prof. Taku Komura) AI Research Assistant	Hong Kong SAR 5.2024 – 4.2025

RESEARCH PUBLICATIONS

MotionPersona: Characteristics-aware Locomotion Control M Shi, W Liu, J Mei, W Tse , X Chen, T Komura	Arxiv Preprint 2025 Hong Kong SAR
InterAct: A Large-Scale Dataset between Two People in Daily Scenarios L Ho, Y Huang, D Qin, M Shi, W Tse , W Liu, J Yamagishi, T Komura	ACM Symposium on Computer Animation (SCA) 2025 Vancouver, Canada

MINI PROJECTS

Quantitative and Algorithmic Trading Strategy Development

- Implemented rule-based and deep learning trading strategies (GAN, LSTM Time-Series Model, etc.) with Python and Yahoo Finance
- Developed a modular backtesting and visualization pipeline for strategy comparison and performance tracking

SentimentSage APP: AI-Powered Financial News Sentiment Analyzer

- Created a finance and stock market news analysis platform using FinBERT for sentiment analysis and LangChain for RAG pipeline
- Integrated ChatGPT API for summarizing market risks, and visualized insights via Streamlit statistics dashboards

Anime Face Generation Using Denoising Diffusion Probabilistic Models

- Implemented a U-Net based diffusion model using PyTorch to generate anime-style faces from random noise through denoising
- Trained on Kaggle anime face dataset, achieving stable convergence over 200 epochs and generating 100+ unique characters

AR-Based Driver Alert and Facial Recognition System

- Developed a real-time driver safety monitoring system using Python and OpenCV, integrating AR to enhance driver safety
- Implemented facial recognition and behavioral analysis algorithms to detect drowsiness, distraction, and identity verification

OTHER INFORMATION

Language: English, Cantonese, Mandarin, Southwestern Mandarin

Technical Skills: Python, C++, Sklearn, PyTorch, NumPy, Pandas, Matplotlib, HTML, CSS, JavaScript, MySQL, Git, Trae

Other Skills: Vicon Motion Capture System, Blender, Figma, Microsoft Office, Canva, WordPress

谢宏博

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教育经历

香港大学 The University of Hong Kong 计算机工程专业工学学士 (双学位项目)	香港特别行政区, 中国 9.2022 – 6.2027
香港大学 The University of Hong Kong 金融专业工商管理学士 (双学位项目)	香港特别行政区, 中国 9.2022 – 6.2027

专业经历

PlayVision Games 人工智能计算机视觉工程师	香港特别行政区, 中国 12.2025 – 至今
香港威裕环球集团 BPS Global Group 人工智能开发实习生	香港特别行政区, 中国 6.2025 – 9.2025
智龄生活 SmartAge Intelligence 人工智能数据科学实习生	香港特别行政区, 中国 12.2023 – 1.2024
香港科技大学 Intelligent Graphics Lab 智能图形实验室 人工智能科研助理 (Yuan Liu 教授指导)	香港特别行政区, 中国 6.2025 – 至今
香港大学 CGVU Lab 计算机图形和可视化实验室 人工智能科研助理 (Taku Komura 教授指导)	香港特别行政区, 中国 5.2024 – 4.2025

科研论文

MotionPersona: Characteristics-aware Locomotion Control M Shi, W Liu, J Mei, W Tse , X Chen, T Komura	Arxiv 2025 Preprint 香港特别行政区, 中国
InterAct: A Large-Scale Dataset between Two People in Daily Scenarios L Ho, Y Huang, D Qin, M Shi, W Tse , W Liu, J Yamagishi, T Komura	ACM Symposium on Computer Animation (SCA) 2025 温哥华, 加拿大

项目经历

算法与量化交易的策略 Python 开发

- 使用 Python 和 Yahoo Finance API 设计并实现多种基于规则和深度学习的交易策略, 例如 LSTM 时序分析, GAN 预测模型等
- 构建模块化分析流程, 涵盖策略实现模块, 历史数据回测模块, 以及结果可视化模块, 成果实现可盈利的目标

SentimentSage APP: AI 驱动金融新闻文本情感分析平台

- 开发基于 FinBERT 情感分析模型和 LangChain RAG 架构的金融和股票市场新闻文本分析平台, 自动化实现市场情绪评估
- 采用 Streamlit 部署完整应用系统, 集成实时新闻 API 接口, ChatGPT 智能风险分析报告和可视化统计仪表盘

基于去噪扩散概率模型 (DDPM) 的动漫人脸生成系统

- 使用 PyTorch 实现基于 U-Net 架构的扩散模型, 通过迭代去噪过程从随机噪声生成多样化动漫风格人脸图像
- 在 Kaggle 动漫人脸数据集上训练 200 个周期, 实现稳定收敛并生成 100+ 具有一致艺术风格的独特动漫角色脸部

基于增强现实 (AR) 的驾驶员预警和人脸识别系统

- 基于 OpenCV 与 Python 开发实时驾驶安全监控系统, 融合增强现实技术 (AR) 以提升驾驶者警觉性和道路安全度
- 实现人脸识别和行为分析算法, 通过头部姿态估计和眼动追踪检测疲劳驾驶和分心行为, 并自动进行身份验证

其他信息

语言水平: 英语, 普通话, 粤语, 西南官话

技术技能: Python, C++, Sklearn, PyTorch, NumPy, Pandas, Matplotlib, HTML, CSS, JavaScript, MySQL, Git, Trae

其他技能: Vicon Motion Capture System, Blender, Figma, Microsoft Office, Canva, WordPress