

Kun-Hsiang Lin

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Experience

AI Consultant , Authme	Sep. 2023 – Feb. 2025
AI Team Lead , Authme	Jan. 2021 – Aug. 2023
Senior CV/ML Engineer , Authme	Oct. 2019 – Feb. 2025
<ul style="list-style-type: none">• Spearheaded the design and development of core AI algorithms for key products, delivering both client-side and server-side solutions that met customer requirements, enhanced market competitiveness, and shaped product planning through expert feasibility assessments and detailed blueprints.• Led cross-platform C++ SDK integration (Android, iOS, WebAssembly), resolving cross-functional challenges between client and backend teams to ensure seamless AI feature delivery and system interoperability.• Developed 20+ proprietary AI algorithms from scratch, covering Face Processing, Facial Recognition, RGB-based Face Anti-Spoofing, OCR, Knowledge Information Extraction, and Anti-Fraud.• Built end-to-end MLOps pipelines, including data analysis, model training, evaluation, deployment, inference, monitoring, and continuous iteration to ensure robust, production-ready AI systems.	

Highlights

- 2024 – NIST FRTE 1:1 (USA): Ranked 44/371 globally on the Visa-Border dataset; Top 1 in Taiwan
- 2023 – FIME Biometric ISO Standards Verification: Achieved ISO/IEC 30107-3 compliance; First in Taiwan
- 2023 – AI Taiwan Future Commerce – Taiwan AI Award
- 2023 – Presidential Hackathon in Taiwan: Placed Top 20 out of 166 national teams
- 2023 – CVPR 4th Face Anti-Spoofing Competition: Ranked 16/66 globally; Top 1 in Taiwan
- 2021 – ICCV Masked Face Recognition Challenge & Workshop: Ranked 5/160 globally; Top 1 in Taiwan
- 2021 – Cathay Financial Holdings Co., Ltd. – eKYC Algorithm PoC Top 1 – 1/5
- 2021 Standard Chartered – eKYC PoC Top 1 – 1/4
- 2020 – Taiwan RegTech Challenge: Champion in the eKYC Group
- 2019 – Line bank – Face SDK PoC Top 1 – 1/3

Research assistant , DMID Lab, IIS, Academia Sinica	Aug. 2017 – Sep. 2019
<ul style="list-style-type: none">• Develop a spatial-temporal deep model on typhoon rainfall nowcasting.• External reviewers for ML/DM conferences such as NIPS, KDD, ICML, etc.	
Research assistant , Hydraulic and Ocean Engineering, NCKU	Jul. 2017 – Sep. 2017
<ul style="list-style-type: none">• Built a drought warning system with C language for the local government.	

Education

National Taiwan University , Ph.D. in Computer Science and Information Engineering	Sep. 2024 – Present
<ul style="list-style-type: none">• Research fields: Computer Vision, Domain Generalization, Anomaly Detection, VLMs, MLLMs, etc.• Adivisor: Wen-Huang Cheng• GPA: 4.15/4.3	
National Taiwan University , M.S.E. in Computer Science and Information Engineering	Sep. 2023 – Jun. 2024
<ul style="list-style-type: none">• GPA: 4.12/4.3 (rank#1)	
National Chen Kung University , M.S.E. in Hydraulic and Ocean Engineering	Sep. 2014 – Jun. 2016
<ul style="list-style-type: none">• Thesis: Comparison of SVM and RF for Hourly Typhoon Rainfall Forecasting.• Adivisor: Pao-Shan Yu• GPA: 3.81/4 (rank#1)• 2016 Scholarship of Chi-Hsin Agricultural Development Foundation (rank#1 in Hydraulic Engineering)	
National Chen Kung University , B.E. in Hydraulic and Ocean Engineering	Sep. 2010 – Jun. 2014
<ul style="list-style-type: none">• GPA: 2.94/4	

Technologies

Machine Learning & AI

- Frameworks & Libraries: PyTorch, Lightning, TensorFlow, Albumentations, ONNX, ONNXRuntime.
- Expertise: Computer Vision, Biometric AI (Face), Anomaly Detection, VLMs, MLLMs, Model Optimization, Distributed Training, Edge ML, Digital Image Processing, MLOps.

Software Engineering:

- Languages & Tools: Python, C/C++ , Bash Scripting, GitFlow, Docker.
- Practices: DevOps, Test-Driven Development, Algorithm Design & Implementation.

Research & Leadership:

- Experience: AI Algorithm Innovation, Research Prototyping, Team Management

Publications

InstructFLIP: Exploring Unified Vision-Language Model for Face Anti-spoofing <i>Lin, K. H.</i> , Tseng, Y. W., Huang, K. Y., Wu, J. C., Cheng, W. H. 2025 ACM Multimedia. (rank#1 in multimedia)	Oct. 2025
Predictor selection method for the construction of SVM-based typhoon rainfall forecasting models using a non-dominated sorting genetic algorithm. Yang, T. C., Yu, P. S., <i>Lin, K. H.</i> , Kuo, C. M., Tseng, H. W. Meteorological applications. (SCI journal)	Sep. 2018
A Comparison of Hourly Typhoon Rainfall Forecasting Models Based on Support Vector Machines and Random Forests with Different Predictor Sets. <i>Lin, K. H.</i> , Tseng, H. W., Kuo, C. M., Yang, T. C., Yu, P. S. 2016 EGU General Assembly. (rank#1 in hydraulic engineering, oral)	Apr. 2016
A Comparison of Random Forests and Support Vector Machine in River Stage Forecasting <i>Lin, K. H.</i> , Tseng, H. W., Kuo, C. M., Yang, T. C., Yu, P. S. 2015 AOGS 12th Annual Meeting. (rank#3 in hydraulic engineering, oral)	Jul. 2015
The application of support vector machine and random forest on precipitation forecasting <i>Lin, K. H.</i> , Tseng, H. W., Kuo, C. M., Yang, T. C., Yu, P. S. 2015 CCACHE. (oral, best student paper award)	Jul. 2015

Projects

Python toolkit for computer vision task • An image processing and deep learning toolkit with modules for vision tasks, structured data, ONNX inference, utilities, and test coverage. • Tools Used: Python	Capybara
Python toolkit for developing AI models • This project offers a lightweight development toolkit featuring modular components and helpful utilities for training PyTorch-based models. • Tools Used: Python	Chameleon
Document image classification system • A document image classification using Metric Learning, enhanced with ImageNet-1K and CLIP. Achieves 90%+ accuracy with fast ONNX inference and high scalability for real-world use. • Tools Used: Python	DocClassifier
Face detection • Built upon SCRFD with innovative enhancements, the face detection model face-detection-XL achieved SOTA performance on the WIDERFace evaluation with competitive computational efficiency, recording mAP scores of 0.965 (Easy), 0.951 (Medium), and 0.845 (Hard). • Tools Used: Python	FaceDetection