LIN-LIN HUA

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EDUCATION

University of Southern California   **January 2025 - December 2026**
Master's, Electrical and Computer Engineering (focus on ML&DS track)
- Merit Based Scholarship Owner

Imperial College London   **October 2020 - November 2021**
Master's, Nanomaterials
- QS universities ranking #7 in Engineering & Technology in 2020

National Chiao Tung University   **September 2017 - July 2020**
Bachelor's, Microelectronics (Formerly named Nano Science and Engineering)
- KTH Royal Institute of Technology Scholarship Owner for Master's Programme in Nanotechnology

PROFESSIONAL EXPERIENCE

Lam Research   **Tainan, Taiwan**
Process Engineer   *May 2022 - May 2024*
- Collaborated with the customer's **dry etch** R&D Team on **DARM** and **CMOS** devices, from prototyping, development until high volume manufacturing.
- Drove the sale of Kiyo series **conductor tool** to VisEra by leading the VisEra **Meta Lens** demonstration and experiments.

Imperial College London   **London, United Kingdoms**
Research Assistant in INHALE Team   *April 2021 - September 2021*
- Co-authored the paper '**Multi-Output Regression with Generative Adversarial Networks**' using **Tensorflow**, **Keras**, **Python** and **machine learning** techniques to analyze air pollution data (multi-dimensions), applying regression models for enhanced insights.
- Analyzed the prediction results with a reasonable explanation and compared the WGAN model with **AutoEncoder**, **RNN**, and **CNN** models.

National Chiao Tung University   **Hsinchu, Taiwan**
Laboratory Assistant, Yung-Fu, Chen's Electrophysics Lab   *June 2018 - September 2018*
- Visualized particle propagation and behavior in 3D space using **MATLAB**, applying advanced mathematics to summarize findings on wave patterns and vortex structures in astigmatic transformations of **Hermite-Gaussian beams**.

PROJECTS & OUTSIDE EXPERIENCE

ReceiptInbox — Serverless Receipt Parser, Spend Categorizer, and Smart Alerts   **California, USA**
                                                                                 November 2025 - Current
- Developed an asynchronous, serverless receipt processing pipeline (ReceiptInbox) using **AWS Lambda**, **SQS**, **Textract (OCR)**, and **Bedrock (NLP)** for automated spend categorization and anomaly alerts.

Time-Series & Structured Data ML Projects   **California, USA**
                                                                                 January 2025 - Current
- Boosted multi-class prediction outcomes on the Parkinson's Telemonitoring dataset through effective application of predictive models using **SVMs, logistic regressions (with and without L1, L2 penalty)**, implementing a **data pipeline** that integrated robust data structures for improved processing and analysis.

High-k Sol-Gel HfO2 for capacitance gate dielectric layer fabrication   **Hsinchu, Taiwan**
                                                                                 February 2019 - June 2019
- Fabricated high-k (HfO_2) gate dielectrics using a **Sol-Gel spin-coating process** to develop low-cost, high-performance MOS capacitor (MOS-C) test structures.
- Performed **electrical analysis**, including **C-V** and **I-V** measurements to evaluate dielectric constant (k-value) and leakage current density, compared the Sol-Gel HfO2 film against traditional SiO2.

SKILLS

- **Software**: Python (Primary), Git, MATLAB, C++, SQL, Tensorflow, Keras, Neural Networks, GAN, Bazel, Docker, Linux©, cloud computing, deep learning
- **Electrical Engineering**: digital signal processing