

Po-Lin Chiang

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SUMMARY

A dedicated **software engineer** with 4 years of experience in **AI-assisted web applications** and **medical image processing**, seeking to advance expertise in AI/ML by pursuing graduate studies.

EDUCATION

B.S. in Architecture (Engineering) *National Cheng Kung University, Taiwan* | Sep 2015 – Jun 2020

Relevant Coursework: Algorithms, Java Programming(1), Introduction to Python Programming, Calculus, Applied Linear Algebra, The world of Statistics, Smart Cities, Engineering Mechanics

- Developed predictive models for traffic flow, parking availability, and dynamic pricing. [\[Github\]](#)
- Generated 3D reconstructions of historical sites with diffusion-based renderings. [\[Github\]](#)
- Built a 3D room design web application leveraging WebGL techniques and cloud services. [\[Github\]](#)

Exchange Program *National University of Singapore, Singapore* | Aug 2019 – Dec 2019

Machine Learning (Online Course) *Stanford Online, Coursera* | Sep 2025 – Oct 2025

- Trained a deep learning model to classify bone scan images as cancer or normal. [\[Github\]](#)

WORK EXPERIENCE

Front-End Software Engineer *Vysioneer Inc., Taipei, Taiwan* | Aug 2021 – Jul 2024

- Developed an AI-assisted tumor segmentation application for radiation treatment planning, applying advanced image processing algorithms across front-end and back-end systems to improve contouring speed and accuracy. (*React.js, FastAPI, Scikit-learn, Scikit-image, Firebase, Pydicom*)
- Implemented unit and end-to-end automation tests for DICOM viewer web application, increasing test coverage by 30%, ensuring system robustness, and reducing manual workload. (*Jest, Cypress*)
- Designed data collection, preprocessing, and QA workflows for hundreds of patients in clinical studies, built automated image quality checks to reduce manual QA time by over 50%. (*Selenium*)
- Collaborated with National Taiwan University Hospital, Stanford University, and Pfizer on clinical trial studies, contributing to data postprocessing, analysis, and visualization. (*pandas, Matplotlib*)

Senior Software Engineer *Vysioneer Inc., Taipei, Taiwan* | Aug 2024 – Oct 2025

- Designed and implemented a cloud-based platform to manage clinical trial data, create annotation records, and integrate AI pipelines for trial analysis. (*React.js, FastAPI, GCP, MongoDB, Nextflow*)
- Built a distributed cloud architecture by integrating third-party solutions, reducing clinical data download time by 45% for global collaborators. (*FastAPI, GCP, MongoDB, Docker, Kubernetes*)
- Provided on-site customer support, deploying upgraded AI models to client servers and improving solution accuracy and efficiency in treatment planning. (*Linux, Shell scripting, Docker, Nginx*)

RESEARCH

- SDPS-09 Mixed response of brain metastases treated with Osimertinib predicts inferior survival outcomes: an artificial intelligence-based lesion-level assessment for cranial control of EGFR mutant non-small-cell lung cancer, Shao-Lun Lu, Yu-Cheng Chang, Caressa Hui, Chih-Hung Liang, **Po-Lin Chiang**, Vicki Lin, Jen-Tang Lu, Erqi Pollom, et al., *Neuro-Oncology Advances*, August 2023, [DOI](#)
- 1421P AI-powered intracranial tumor response predicts systemic progression with high concordance in endpoint evaluation in the phase III CROWN study, S-L. Lu, C. Duan, Y-C. Chang C-H. Liang, **P-L. Chiang**, V. Lin, Y-S Yang, J-T. Lu, et al., *Annals of Oncology*, October 2023, [DOI](#)
- Poster 2012P A post-hoc analysis of the CROWN study in ALK+ NSCLC using AI to predict progression-free survival based on early response, S-L. Lu, Y. Chang, C. Liang, **P. Chiang**, J. Lu, C. Duan, et al., *ESMO Congress 2025*, [LINK](#)

SKILLS

- Cloud & DevOps: Python, JavaScript, GCP, Firebase, MongoDB, Nginx, Docker, Kubernetes
- Data & ML: pandas, Matplotlib, SciPy, Scikit-learn, Scikit-image, Nextflow, Pydicom, PyTorch