

Ping-Chun Lin

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PROFESSIONAL EXPERIENCE

- Fujitsu Research**, Converging Technologies Lab

Jan 2025 - present

AI Research Intern

Santa Clara, CA

 - Led the design and requirements specification for an AI platform, collaborating with contractors to ensure scalability and accuracy in the final implementation.
- Conservation International**, Betty and Gordon Moore Center for Science

Jun 2024 - Jan 2025

Data Scientist Intern

Seattle, WA

 - Utilized Python and R to implement a data pipeline with Docker and AWS, reducing processing time by **97%** through optimized ETL scripts and parallel processing techniques.
 - Co-developed machine learning models (XGBoost/GAM) for threshold prediction, expanding coverage from 13 to **500+** regions, enhancing relevance to global industries (e.g., agriculture), and enabling tailored decision-making for clients.
- Global Innovation Fund**, UW School of Environmental and Forest Sciences

Jun 2023 - Sep 2023

Machine Learning Developer

Seattle, WA

 - Designed and developed an end-to-end pipeline with Python for object/change detection on satellite images using CNNs and Foundation Models (SAM) with high accuracy, reducing **90%** of the processing time and cost for manual labor.
 - Co-authored a report to stakeholders about the performance of the model and utilizing machine learning techniques for climate change research.
- University of Washington**, Department of Earth and Space Sciences

Sep 2019 - Dec 2024

Graduate Researcher funded by the Simons Foundation and NASA

Seattle, WA

 - Developed a novel data-driven model using linear and lasso regression with Python to predict key environmental parameters. Conducted statistical analysis of previously unused experimental data features, uncovering new insights and strategies for predictive modeling, resulting in multiple research publications.
 - Created an application to analyze feature changes from multi-modal data (visual, sensors) over a time series, with findings published in a high-impact journal.

PROJECTS AND LEADERSHIP

- Software Developer**

Sep 2022 - Dec 2022

microSWIFT Team, UW Applied Physics Lab

Seattle, WA

 - Co-developed a Raspberry Pi quality control pipeline and produced an open-source package on PyPI for collaborators and enthusiasts to access the research data from wave buoys for hurricane research.
- Executive Committee Chair**

Jan 2021 - Jun 2023

UW Taiwanese Graduate Student Association

Seattle, WA

 - Led a team of 20+ members to organize events annually for graduate students and early-career professionals, including social events with the local community and career workshops with alumni.
 - Deployed task management tools and a membership database for efficient remote operations of the organization.

SKILLS

- Programming Languages:** Python (Tensorflow, PyTorch, scikit-learn), SQL, Java, R, MATLAB, HTML, CSS, JavaScript, Shell
- Machine Learning & Numerical Modeling:** Deep Learning, Transformers, Foundation Models, Optimization, Computer Vision, Embedding, Clustering, Causal Inference, Time Series Forecasting (ARIMA), CUDA, LLM, Generative AI
- Data Science & Tools:** Statistics, A/B testing, Data Cleansing, Data Visualization (plotly, Seaborn, ggplot2), Data Mining (Spark, MapReduce), ETL, EDA, Jupyter, Git, Unix/Linux, Docker, AWS (S3, EC2), Excel, React, Postgres, CI/CD, OOP

EDUCATION

- University of Washington**

M.S. in Applied Mathematics & M.S. in Earth and Space Sciences GPA: 3.8/4.0

Jun 2025

 - Relevant Courses: Machine Learning, ML for Big Data, Software Development, Database Systems, Applied Linear Algebra

B.S. in Geophysics and Minor in Applied Mathematics GPA: 3.8/4.0

Jun 2019
- Certifications:** Deep Learning Specialization (Coursera), Large Language Models (Coursera)