EDRIAN PAUL LIAO

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EDUCATION

Duke University, GPA: 3.92

BSE Electrical and Computer Engineering, BS Computer Science (ML/AI Concentration)

Durham, NC

Expected: May 2025

Certificate: Science and Society - Digital Intelligence Track

Relevant Coursework: Deep Neural Nets (Graduate), Machine Learning, Artificial Intelligence, Signals and Systems,

Advanced Multivariable Calculus, Probability, Operating Systems, Environmental Science and Policy

RESEARCH INTERESTS

Machine learning for climate change monitoring and disaster risk management, Remote sensing using satellites and drones, Data- and media-driven storytelling for environmental justice

RESEARCH EXPERIENCE

Spatial causal inference model using satellite data to mitigate urban heat island effect Independent Study · Prof. David Carlson	Jan 2024 – Present <i>Durham, NC</i>
Long-term earthquake prediction using time-series forecasting models Research Group @ Duke · Dr. Enmao Diao · [Code]	May 2023 – Present <i>Durham, NC</i>
PlanetTales: Climate change experiences in the rural Philippines Independent Study · Prof. Kyle Bradbury · [Website] [Code] [Poster]	Jul - Sep 2023 Cauayan, Philippines
Tracking climate change causes and impacts with satellites and AI Duke Climate+ · Prof. Kyle Bradbury · Prof. Jordan Malof · [Website] [Code] [Poster]	May - Jul 2022 <i>Durham, NC</i>

TEACHING EXPERIENCE

Teaching Assistant, Intro to Artificial Intelligence	Spring 2024
Teaching Assistant, Fundamentals of Electrical and Computer Engineering	Spring 2023 - Present
Teaching Assistant, Calculus I and II	Spring 2022, Fall 2022

SELECTED PROJECTS

Web Application for Project Kayamanan	Oct 2022 - Present
Technify Initiative, Lead Software Engineer · [Code]	Durham, NC
DoseDocker: A Smart IOT Pill Box	Sep 2023
HackDuke: Code for Good · [Devpost] [Code]	Durham, NC
Adjustable and Mobile Camera Holder for Scanning Arches	Aug - Dec 2021
Duke Digital Art History and Visual Culture Research Lab • [Arch 1] [Arch 2] [Poster]	Durham, NC

LEADERSHIP & MENTORSHIP EXPERIENCES

President and Co-Founder, Duke Pamilya: Filipino Students Association	2022 - Present
Mentor, CAUSE Philippines: College apps mentorship program for low-income Filipinos	2021 - Present
Co-Founder, Tutor, Pi-oneers: STEM Education Non-profit	2020 - 2022
Co-Organizer, Project Manantaw: Initiative for typhoon victims in the Philippines	2020

SKILLS

Languages: Python, C, Java, LaTex, HTML/CSS, JavaScript, MATLAB, C++

Libraries, Databases, and Frameworks: Node.js, PyTorch, Google Earth Engine, Google Firebase, MongoDB, NumPy,

Matplotlib

Devops: Git, Linux, Docker, Bash, GitHub Projects, Agile Product Development

HONORS & AWARDS

Karsh International Scholarship, Duke University	2021-2025
Winner, HackDuke: Code for Good	2023
Outstanding Teaching Assistant Citation. Duke Electrical and Computer Engineering Dept.	2023