

PHU N DANG | dangnphu31@gmail.com

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EDUCATION

UNIVERSITY OF CALIFORNIA SAN DIEGO | GPA: 3.709

Data Science, BS - Real Estate & Development, BS (double-major)

Exp. Graduation Date: June 2025

SKILLS & ACTIVITIES

- **CEQA, CoStar, SketchUp**, Python (Pandas, Num/SciPy, Matplotlib, Seaborn, Dash/Plotly, Sklearn, PyTorch), R, SQL, Java, C, Tableau, Excel/Power BI, GitHub, VSCode/IntelliJ/Arduino/G-Colaboratory, Bilingual Fluency w/ **Vietnamese**
 - **LEED GA (IP), Etkin Scholar @ Urban Land Institute, Assistant Research Fellow** (Real Estate Practitioner & Green Building Tech. Researcher) @ **UCSD Urban Studies & Planning Dept.** and **Homelessness Hub, Officer & Player on UCSD Men's Club Water Polo Team (2022 Champion), DS3 Workshops Committee Member (BI & SWE Domains)**
 - **Honors/Awards:** 2x UCSD PACE Fellow Scholarship, Roosevelt College Honors Program, Provost Honors
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EXPERIENCE

BIOKIND ANALYTICS | Healthcare Non-profit | La Jolla, CA

Sep 2022 – Present

President & Data Analyst

- Manage organizational leadership, budget, marketing, outreach, and recruitment activities
- Collaborate with local healthcare non-profits throughout San Diego to discuss potential avenues for data science to improve operational efficiency, impact, client satisfaction, and return on investment
- Oversee and participate in student data science projects to ensure quality, timely delivery, and meet clients' expectations; facilitating opportunities for students to apply academic knowledge in impactful, real-world scenarios
- Collaborate with clients to analyze complex operational/financial datasets in identifying key metrics and actionable insights, leading to improved client understanding of programs, initiatives, and research grants performance
- Organize discussions/meetings with university teaching faculty, department advisors, and non-profit representatives

NIEMA LAB | Computer Science & Engineering | La Jolla, CA

Sep 2022 – Oct 2023

Data Science Trainee & Researcher (Mentor – Dr. Niema Moshiri)

- Developed an interactive application to visualize Covid-19 time-series data with variant segmentation
- Programmed robust computational algorithms to dynamically smooth data upon input parameters and update graph
- Optimized app by reducing 97% of initial runtime through memoization and efficient data structure implementation
- Benchmarked data compression techniques to optimize serialization efficiency and expedite loading speed
- Wrote 7 research notebooks to uncover patterns in 30+ large-scale datasets involving 3000+ cancer patients
- Exceeded 87% accuracy across diverse evaluation metrics, in accurately predicting breast cancer recurrence status
- Analyzed disparities and data collection gaps to ensure ethical and responsible data science practices
- Implemented and assessed solutions to handle imbalanced data for reliable predictions
- Applied robust false discovery correction for reliable statistical conclusions

GOING SOLO | Business Intelligence & IT Consulting | Johannesburg, South Africa

Jun 2022 – Aug 2022

Lead Data Analyst Intern

- Implemented a character-based word embeddings model to improve words/phrases cognition for text classification
 - Developed an automated Bayesian text classifier to streamline data labeling processes
 - Analyzed an S&P 500 stock/financials and developed an interactive dashboard in Tableau
 - Enhanced and maintained a PM dashboard, enabling real-time progress tracking/reporting to supervisors
 - Managed projects and led team communications across 7+ time zones for effective collaboration and timely delivery
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PROJECTS

Urban Economic Determinants of Industrial Location | Personal Project

A discussion paper on the theories of industrial location, with emphasis on environmental regulations, tax incentives, and location factors influencing the decisions to locate (or relocate) by firms. Features case studies of Amazon and the SoCal wood furniture manufacturing industry, building off key points in Beer and Clower's book on local economic development.

San Jose General Plan Evaluation | Personal Project

A comprehensive review of the Envision San Jose 2040 General Plan, features a 1-on-1 interview with Mr. Pierluigi Oliverio, one of 37 Task Force members and a District 9 San Jose City Councilmember, for personal comments on the Envision process.

Solar-Powered Smart Lighting for Sustainable Living | Team Project

Built a solar-powered IoT device capable of collecting live sensor data, adjusting lighting, sending data to a MySQL database using MCU Wi-Fi with synchronous communication and developed a data processing script to query/transform/visualize data.

Illuminating Cognizance | Personal Project

A comprehensive look into major power outages in the U.S. to assess (1) statistical relationships through exploratory analysis, hypothesis testing, data missingness assessment, and (2) predictive power using supervised machine learning models and feature engineering, built in pipelines with evaluation comprising diverse accuracy metrics and cogent assessments.