





Dustin Nguyen

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Summary: Experienced AI/ML Scientist with a background in computational astrophysics (Physics PhD).

Work Experience

Leidos

▷ Senior Machine Learning Research Scientist

Remote, USA

03/2025 - Present

- Solutioning for various capture efforts at Leidos Innovation Center (LInC)
- Technical contributor for a DARPA program using Graph ML for Space Situational Awareness tasks.
- Contributed to an IARPA program for remote-sensing detection of chemical aerosols.

Lockheed Martin

▷ Senior Machine Learning Engineer

Denver, CO

03/2024 - 03/2025

- Technical contributor for a DARPA program focused on utilizing Controlled Neural ODEs as a surrogate model in the AFSIM simulation environment.
- Contributed to corporate IRAD focused on using AI/ML methods for deciding tactics in AFSIM scenarios.

Los Alamos National Laboratory

▷ Applied Machine Learning Fellow

Los Alamos, NM

05/2022 - 08/2022

- Contributed to research focused on modeling with Scientific Machine Learning with Universal Differential Equations - using the geophysical Korteweg-de Vries equation as a toy model.

The Ohio State University

▷ Graduate Research Assistant and NASA FINESST Fellow

Columbus, OH

08/2020 - 12/2023

- Used computational methods to understand how starburst galaxies launch multiphase winds - which is related to how galaxies evolve. Resulted in 10 published peer-reviewed papers, with 6 being first author.

Award

- NASA FINESST Fellowship | PhD student led proposal ~ 8% acceptance rate, ~ \$97K 2022

Technical Skills

Toolkit: JIRA, Confluence, CI/CD Pipelines, Git, Python, PyTorch/Lightning, Mlflow/Wandb, Linting, Unit Tests

Specialization: SciML - Neural SDEs/CDEs/PDEs/ODEs, UQ, Transformers, Time-series

Knowledge: Physics, Numerical Methods, Orbital Mechanics, Flight Dynamics, Quaternions, Machine Learning

Publications (Total 10, Six first-author papers.)

Machine Learning

- "Neural ODEs as a discovery tool...", Nguyen et al. 2023, [NeurIPS 2023 Workshop on M.L. and Physical Sciences](#).
- "Neural Astrophysical Wind Models," Nguyen, 2023, [ICML 2023 Workshop on M.L. for Astrophysics](#).

Astrophysics (PhD research: Multi-dimensional simulations of multi-phase winds from starburst galaxies)

- 4 first author papers in MNRAS, MNRAS Letters, and Astrophysical Journal Letters. 4 co-author papers.

Education

Ph.D. in Physics, The Ohio State University

08/2018 - 12/2023

M.S. in Physics, The Ohio State University

08/2018 - 05/2021

B.S. in Physics and Astrophysics, Arizona State University

08/2014 - 05/2018