

Diego Llanes

Bellingham, WA, USA

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ABOUT ME

CHANGE ME

EXPERIENCE

Scientific Machine Learning Technical Intern

Remote, Richland, WA, USA

Pacific Northwest National Laboratory

Jul 2022 - Present

- Benchmarked Differentiable Predictive Control against Deep Reinforcement Learning algorithms for building control systems and contributed to open-source projects.
- Collaborated with domain experts to model building energy dynamics and optimize control policies for energy efficiency.
- Developed a strong foundation in control theory, reinforcement learning, and differentiable programming for real-world applications.

Deep Learning Research Assistant

Bellingham, WA, USA

Hutchinson Machine Learning Research Group

Sep 2022 - Present

- Designed and trained CNN-based architectures for spectroscopy data to estimate stellar parameters such as surface gravity and temperature.
- Engaged in weekly reviews of state-of-the-art research, applying novel techniques to astronomy data analysis.
- Skilled in PyTorch, Matplotlib, and NumPy for high-performance data modeling and visualization.

Graduate Course Teaching Assistant

Bellingham, WA, USA

Western Washington University

Mar 2023 - Present

- Developed visual tools and worksheets to teach complex machine learning concepts effectively.
- Delivered lectures on advanced topics, bridging theoretical knowledge with practical applications.
- Mentored students individually, supporting their academic and professional growth.

SKILLS

Skills: Python, PyTorch, NumPy, Go, TensorFlow, C++, JavaScript, Control Theory, Reinforcement Learning

PROJECTS

Neural Network From Scratch

2023

Developed a deep learning library in Python using only NumPy, supporting forward/backward propagation, activation functions, and gradient descent for classification and regression tasks.

EDUCATION

Western Washington University, Bellingham, WA, USA

Sep 2023 - Jun 2025 (Expected)

Master of Science in Computer Science

Western Washington University, Bellingham, WA, USA

Jan 2021 - Jun 2024 (Expected)

Bachelor of Science in Computer Science