Maxwell R. Lennon

410-660-0896 • maxlennon7@gmail.com • LinkedIn: Max-Lennon • Google Scholar: Maxwell Lennon

Machine learning engineer with in-depth experience in active learning, adversarial robustness, and human-AI interaction. Strong background in developing and deploying research-grade ML models for decision support, computer vision, and security applications. Seeking to build production-grade ML systems with real-world impact.

TECHNICAL SKILLS

Languages:	Python, C++, Java, MATLAB, R, SQL, Julia
Machine Learning:	PyTorch, Tensorflow (Keras), Scikit-learn, OpenCV, HuggingFace
Data & Analysis:	NumPy, Pandas, Matplotlib, Altair
MLOps & Infrastructure:	AWS, Weights & Biases, Jupyter, Anaconda, Docker, Git, UNIX

EXPERIENCE

Graduate Machine Learning Researcher – LUPA Lab
University of North Carolina at Chapel Hill, Computer Science • Aug 2022 – May 2025

- Developed intelligent decision support models to optimize the presentation of medical data on a case-by-case basis in order to improve risk prediction of colorectal cancer.
- Designed experimental framework to simulate expert decision making under cognitive biases including information overload and statistical discrimination.
- Co-created a budget-efficient active feature acquisition framework, using oracle techniques to overcome greedy search limitations. *Published in ICML 2024*.
- Built modular ML pipelines for model evaluation with cost-aware querying of incomplete data.

Machine Perception Intern – Intelligent Systems Center
Johns Hopkins Applied Physics Laboratory • Summers 2019 – 2022

- Created 3D-invariant adversarial patch attacks, demonstrating robustness to transformations across 6 degrees of freedom. *Published in ICCV 2021*.
- Designed adaptive patch attacks that outperform static baselines; developed evaluation framework including a novel metric for dynamic attack success. *Published in WACV 2023*.
- Engineered internal tools and GUIs for adversarial testing, enabling secure model deployment practices and improved stakeholder communication.

EDUCATION

M.S., Computer Science – University of North Carolina at Chapel Hill
Focus: Machine Learning, Human-AI Interaction • *GPA: High Pass* • *Dec 2025*

B.S., Computer Science – University of Virginia, Minors in Math & Engineering Business
Graduated with Highest Distinction, GPA: 3.81 • May 2022

FEATURED COURSEWORK

Machine Learning	Advanced Linear Algebra	Software Engineering & Dev.
Deep Learning	Reinforcement Learning	Information Visualization
Transfer Learning	Probability & Statistics	Leadership Across Disciplines
Computer Vision	Algorithm Analysis	New Product Development