Adriana Fasino

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EDUCATION

Rowan University, Glassboro NJ September 2019 - Present

Master of Science in Electrical and Computer Engineering Expected August 2025

GPA: 4.0; Working towards Certificate in Graduate Studies for Machine Learning

Bachelor of Science in Electrical and Computer Engineering Graduated May 2023

Dual minor in Computer Science and Mathematics

GPA: 3.73, Dean's List; Member of the Bantivoglio Honors College

SKILLS

- Programming: Python, Java, Matlab, R, C++, C#, SQL, Verilog, LaTeX.
- Cloud Platforms: AWS, Google Cloud Platform
- Data Science: Pandas, Matplotlib, Plotly, NumPy
- Skilled in Computer-Aided Design/3D modeling
- Skilled in technical writing and documentation
- Experienced with Linux and HPC management systems such as SLURM
- Machine Learning Tools: PyTorch (Torchvision Torchaudio), TensorFlow, Keras, Scikit-Learn.
- Machine Learning Experience: Deep Learning (CNN, MLP, RNN, autoencoder, transformer, LLM), Reinforcement Learning (actor-critic, PPO, DQN), Generative AI (diffusion, GAN, VAE).
- Experienced with various genetic clustering algorithms (ex. VSEARCH, MMseqs2).

WORK EXPERIENCE

Rowan University, Glassboro NJ - Research Intern May 2022 - Present

- Worked with Drexel University to use coding and machine learning techniques to sort and analyze large metagenomic databases.
- Developed and implemented machine learning improvements to preexisting metagenomic pipelines.

Rowan University, Glassboro NJ - SFC BUILDER Intern May 2021 - September 2021

- Collaborated with the NJ Department of Military & Veteran Affairs and the NJ Army National Guard to conduct inventory and assessments of government buildings through site visits and fieldwork.
- Provided data input and organization support using BUILDER Sustainable Management Systems.

Peer Reviewed Publications

- "Semi-Supervised and Incremental VSEARCH for Metagenomic Classification," Fasino, A., et al., IEEE Symposium Series on Computational Intelligence.
- "Semi-Supervised and Incremental Sequence Analysis for Taxonomic Classification," Fasino, A., et al., IEEE Symposium Series on Computational Intelligence.
- "Incremental, Semi-Supervised and Efficient Taxonomic Classification of 16S-rRNA Sequences with Novel Sequence Identification," Fasino, A., et al., Under Review with PeerJ.