Evelyn Rose

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Objective

AI Graduate Research Assistant with a strong background in robotics, deep learning, and reinforcement learning. Proven expertise in designing scalable AI models using Python, PyTorch, and TensorFlow, and integrating real-world sensor data for autonomous systems. Demonstrated success in collaborative research, simulation, and development of innovative robotics solutions.

Education

UNIVERSITY OF TEXAS AT SAN ANTONIO **Aug 2025**
MASTER OF SCIENCE, ARTIFICIAL INTELLIGENCE

TEXAS A&M UNIVERSITY **May 2023**
BACHLOR OF SCIENCE, COMPUTER SCIENCE

Work Experience

UNMANNED SYSTEMS LAB AT UTSA **Oct 2023 - Present**
GRADUATE RESEARCH ASSISTANT, UNMANNED SYSTEMS LAB AT UTSA

- Collaborated with the Army Research Lab (ARL) on deep reinforcement learning projects to enhance autonomous decision-making in complex environments using human feedback.
- Engineered and scaled machine learning models with Python, PyTorch, and TensorFlow to support deep learning initiatives in autonomous systems.
- Documented and visualized experimental outcomes using matplotlib to contribute to cutting-edge research in reinforcement learning from human feedback.
- Conducted crowdsourced research using ratings-based reinforcement learning to refine decision strategies in complex simulated environments.
- Utilized prompt engineering techniques to query large language models like GPT and LLAMA via Hugging Face, to support reinforcement learning applications in robotics.

TEI LAB AT A&M UNIVERSITY **Jun 2021 - Jun 2023**
UNDERGRAD RESEARCH ASSISTANT, TEI LAB AT A&M UNIVERSITY

- Developed a telepresence robot for K-12 education that leveraged computer vision using C++ and ROS to facilitate autonomous interaction and navigation.
- Designed and built cost-effective robots with rapid 3D printed prototyping to support STEM education, integrating computer vision for real-time face tracking.

Teams

WE VEX-U 2019 **2019**

- Served as a lead programmer for a competitive robotics team, developing autonomous control systems and real-time decision-making algorithms.
- Designed and implemented software for two custom-built robots, enabling strategic movement and task execution in 1v1 global competitions.
- Achieved “Best Team” award and advanced to the finals through exceptional collaboration, innovation, and performance.

Skills

- **Machine Learning**: Deep Learning, Reinforcement Learning, Computer Vision, Natural Language Processing
- **Programming Languages**: Python, C++, Java
- **Frameworks & Libraries**: PyTorch, TensorFlow, Hugging Face, OpenCV, Scikit-Learn, ROS

Publications

- Rose, E., White, D., Wu, M., Lawhern, V., Waytowich, N. R., & Cao, Y. (2025).Performance Optimization of Ratings-Based Reinforcement Learning.AAAI Bridge Philadelphia, PA
- Wu, M., White, D., Rose, E., Lawhern, V., Waytowich, N. R., & Cao, Y. (2025).Multi-Task Reward Learning from Human Ratings.arXiv preprint arXiv:2506.09183.