

# Yohn Jairo Parra

Mentor 1: Felicia Doswell- Norfolk State University

Home Institution: Florida A&M University

Target Course: Artificial Intelligence

Target Course Number: CAP-4620

Anticipated Enrollment: 12 in the fall.

## Science Gateways Resource Needs/Questions:

- *How many students will be active simultaneously?*
- What are memory and storage quotas per user?
- When and how frequently is this course offered?

## Project Goals:

- Evaluate open-weight large language models (LLMs) that students can deploy, fine-tune, and benchmark on HPC systems through science gateway interfaces.
- Curate domain-relevant datasets and pre-configured computing environments (Jupyter/containerized) that can be published and reused on science gateways.
- Map gateway-hosted datasets across domains (environmental, health, geospatial) to specific course modules — clustering, computer vision, NLP — creating a reusable crosswalk that shows instructors which gateway data assets support which AI competencies.

## Science Gateway Goal:

Extend Access to Cyberinfrastructure (Growing the Community) :Using NRP to compare unsupervised models versus Google Colab" puts students on the National Research Platform.

