

Rocio Perales Valdes

Atlanta, Georgia • rvaldes6@gatech.edu • github.com/rociopv06,

Education

Georgia Institute of Technology | Computer Science | GPA: 4.0

May 2028

Minor: Law, Science & Technology | Coursework: Data Structures, OOP, Linear Algebra

Involvements: AISI, RoboJackets, Kappa Alpha Theta, SHPE, Women@CollegeOfComputing

Skills

Programming: Java, C++, Python, JavaScript, Web (HTML, CSS)

AI/ML: TensorFlow, YOLO, Autoencoders

Robotics: ROS2, PID Control

OS: MacOS, Linux **Tools:** Git, GitHub, ClickUp

Languages: Spanish (Native), English, French

Experience

Executive Board | AI Safety Initiative ([AISi.dev](https://aisi.dev))

Jan. 2025 – Present

- Facilitating [AI Safety Technical Fellowship](#) a 6-week technical introduction into AI Safety
- Secured **80 new members** at club fair, interviewing stakeholders, and creating [LinkedIn content](#) twice a month
- Leading **deepfake regulation research team** including graduate students under [Dr. Margaret Kosal](#)

Software Developer | [RoboJackets](#) – [RoboCup SSL](#)

Aug. 2024 – Present

- Developed **obstacle avoidance algorithms** in C++/Linux/ROS2 for **6-robot coordination system**
- Led technical challenge implementation** resulting in **2nd place Technical Challenge, 4th overall** at [RoboCup 2025 International](#)
- Contributed to [large-scale robotics codebase](#) with real-time multi-robot pathfinding

ML Solutions Intern | ZeruDrones

Jun. 2025 – Present

- Trained **YOLO models** on AWS-based VM with enhanced GPU for electrical infrastructure detection
- Integrated **convolutional autoencoders** for powerline anomaly detection preventing service interruptions

Campus Leader | [You.com](#)

Oct. 2024 – May 2025

- Organized **AI agents workshop** for **40+ students** from Georgia Tech, Yale, Columbia, NYU
- Collaborated with cross-functional teams on AI product development and campus outreach strategies

Projects

[Personalized Word Count for Google Docs](#)

Jun. 2024 – Aug. 2024

- Built **JavaScript Google Workspace extension** enabling custom word count tracking with user-defined parameters
- Achieved **1,000+ downloads** on Google Workspace Marketplace with live document integration

[Denoising Autoencoders Research](#)

Sept. 2022 – Oct. 2024

- Reduced **MSE by 15%** on MNIST dataset, published technical paper on handwritten digit deblurring

Awards & Recognition

[Economic Futures Symposium](#) | [Invited Guest](#)

September 2025

- Invited by [Anthropic](#) to attend exclusive symposium based on deepfake regulation research contributions

[AI@ATL Hackathon Winner](#) | [Major League Hacking](#)

Oct. 2024

- Built **synthetic medical dataset generator** and **prompt injection testing framework** in **48 hours**
- Evaluated LLM **robustness** across multiple attack vectors using [Claude](#) and [Gemini](#) APIs
- Won **1st place** out of **15 teams** in AI Safety track with live technical demonstration

[Machine Learning Specialization](#) | [DeepLearning.AI/Stanford](#)

Jun. 2023 – Aug. 2023

- Completed **15+ coding assignments** in PyTorch/NumPy (self-adapted from TensorFlow)

[AI & Law \(Honors\)](#) | [Lund University](#)

Apr. 2022