

Diego Gomez

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Research interests Reinforcement learning, representation learning, continual learning, meta-learning, multi-agent learning, information theory

Education

Doctor of Philosophy in Computing Science <i>University of Alberta</i>	2025 – Present Edmonton, Canada
Master of Science in Computing Science <i>University of Alberta</i> (GPA: 4.0/4.0)	2022 – 2023 Edmonton, Canada
Master of Science in Electronic Engineering <i>Universidad de Los Andes</i> (GPA: 5.0/5.0)	2020 – 2022 Bogotá, Colombia
Bachelor of Science in Electronic Engineering <i>Universidad de Los Andes</i> (GPA: 4.67/5.0)	2013 – 2019 Bogotá, Colombia
Bachelor of Science in Physics <i>Universidad de Los Andes</i> (GPA: 4.67/5.0)	2014 – 2019 Bogotá, Colombia

Publications

Peer-reviewed Articles

Proper Laplacian Representation Learning
Diego Gomez, Michael Bowling, and Marlos C. Machado.
International Conference on Learning Representations (ICLR), 2024.

Information Optimization and Transferable State Abstractions in Deep Reinforcement Learning
Diego Gomez, Nicanor Quijano, and Luis Felipe Giraldo.
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2022.

In Preparation

Asymmetric Laplacian Representations
Kaixin Wang, Diego Gomez, and Marlos C. Machado.
To be submitted to ICML, 2025.

Theses

Training Adversarial Models with Evolutionary Dynamics
M.Sc. thesis, Universidad de Los Andes, 2022

Unsupervised Learning of Lattice Models
B.Sc. thesis, Universidad de Los Andes, 2019.

Work experience

Research Assistant <i>University of Alberta</i> Supervisors: Marlos C. Machado and Michael Bowling	May 2023 – Present
Machine Learning Analyst <i>Mercado Libre, Applied Machine Learning</i>	June 2021 – August 2022

	Professional Researcher March 2021 – June 2021 <i>Universidad de Los Andes, Industrial Engineering Department</i> Project: Development of a vision and computational learning methodology for the prediction of viability and vigor of seeds of native agricultural products. Supervisor: Camilo Andrés Franco de los Ríos	
Teaching experience	Graduate Teaching Assistant, Comp. Science September 2022 – April 2023 <i>University of Alberta</i> CMPUT 466/566: Introduction to Machine Learning (undergraduate & graduate) CMPUT 175: Introduction to the Foundations of Computation II (undergraduate) Graduate Teaching Assistant, Industrial Eng. August 2020 – December 2020 <i>Universidad de Los Andes</i> MIIA 4203: Advanced Models for Data Analysis 2 (graduate) MIIA 4400: Marketing Decision Models (graduate) Graduate Teaching Assistant, Electrical Eng. January 2020 – June 2020 <i>Universidad de Los Andes</i> IELE 2300: Control Systems Analysis (undergraduate) Instructor, Physics January 2018 – May 2018 <i>Universidad de Los Andes</i> Clínica de Problemas (undergraduate & graduate)	
Honors and scholarships	Computing Science MSc Early Achievement Award 2024 Awarded to 1 student based on academic and research achievements. Graduate Students' Association Academic Travel Grant 2023 Travel grant based on academic performance. <i>Cum Laude</i> in Electronic Engineering (graduate) 2022 Awarded to the top 3% GPAs of the Engineering Faculty in the last five years. <i>Magna Cum Laude</i> in Electronic Engineering 2019 Awarded to the top 1% GPAs of the Engineering Faculty in the last five years. <i>Cum Laude</i> in Physics 2019 Awarded to the top 3% GPAs of the Science Faculty in the last five years. Santiago Pardo Ramírez Scholarship 2013 Full tuition scholarship (50,000 USD over 6.5 years) granted for performance in SABER national test. EEML Best Poster Award 2019 <i>East European Machine Learning Summer School</i>	
Service and Outreach	Reviewer: International Conference on Learning Representations (ICLR) 2025 Reviewer: Reinforcement Learning Conference 2024 Reviewer: IEEE Transactions on Pattern Analysis and Machine Intelligence 2023 Reviewer: IEEE 5th Colombian Conference on Automatic Control (CCAC) 2021	
Other academic experience	Data Science for All / Colombia program May 2020 – August 2020 MinTIC and Correlation One. Bogotá, Colombia 12 week intensive data science program.	

Academic Exchange Program

The University of Melbourne.

Advanced Control Systems, Robotics, Embedded System Design.

July 2016 – December 2016

Melbourne, Australia

Technical
knowledge

Languages

Python, Matlab, C, SQL.

Machine learning libraries

JAX, PyTorch, Keras, scikit-learn.

Technologies

Git, Bash, Apptainer, L^AT_EX.