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# Diego Gomez

## Education

2013-present **B.S. Electronic Engeneering**, *Universidad de los Andes*, Bogotá, Colombia, *GPA:4.72/5.*
Relevant coursework: Object-Oriented Programming, Computational Methods, Probability and Statistics, Control Systems Analysis, Evolution and Learning Oriented Control, Robotics, Advanced Control Systems, Intelligent Analysis of Signals and Systems, Analytical Mechanics, Synthetic Biology, Optimization, Machine Learning, Non-Linear Systems, Information Theory

2014-present **B.S. Physics**, *Universidad de los Andes*, Bogotá, Colombia, *GPA:4.65/5.*

2005-2012 **High school graduate**, *Liceo Navarra*, Bogotá, Colombia, *Rank: 1st in class.*

## Scholarships

2013-present ***Santiago Pardo Ramírez* Scholarship**.
Full tuition scholarship granted for good performance in SABER standardized test.

## Academic Experience

### Research

05/2018-present **Continuous data driven control based on Reinforcement Learning**.

05/2018-present **Non-supervised Machine Learning techniques applied on the Ising model**.

### Teaching

01-05/2018 **Instructor in *Clínica de Problemas***, *Universidad de los Andes*, Bogotá, Colombia.
Clarified concepts and guided problem solving on elementary physics.

01-11/2017 **Teaching assistant in Control Systems course**, *Universidad de los Andes*, Bogotá, Colombia.
Proposed and graded homeworks.
Supported students with questions about the course topics.

### Course projects

08-11/2017 **Machine learning**.
Designed convolutional neural network for image database classification.

08-11/2017 **Non-linear systems**.
Simulated geometric controller on a spherical pendulum under time-varying restrictions.

08-11/2016 **Advanced control systems**.
Designed, simulated and implemented LQG controller for simple mechanical system.

01-05/2016 **Learning and evolution for control**.
Simulated game-theoretic approach for distributed learning control in wind farm.

### Others

07-12/2016 **Academic exchange program**, *The University of Melbourne*, Melbourne, Australia.
Courses taken: Advanced Control Systems, Robotics, Embedded System Design

## Languages

Spanish **Native**

English **Proficient**

Japanese **Elementary**

## Computer skills

Programming Python, Pytorch, Matlab, C