# PABLO ANDRÉS URIZA

## Data Scientist / Educator

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in https://www.linkedin.com/in/andres920310/  ⊙ https://github.com/pa-uriza

## 🔍 WORK EXPERIENCE

### Senior Data Scientist

**Mavecure**

📅 Jun 2021 - Present          📍 Bogotá, Colombia

- Led the Data Science team in Data Science and Analytics consulting projects for different business. Applied NLP, ConvNets, Recurrent Neural Networks, and other statiscial and deep learning algorithms to support decision-making

### Assitant professor

**Universidad Sergio Arboleda**

📅 Aug 2019 - Present          📍 Bogotá, Colombia

- Coordinate the *Decision-making and applied Operation Research* area of the Industrial Engineering program
- Teach undergraduate-level courses on linear optimization, Markov chains, Queuing theory and Discrete-Event Simulation
- Lead the SITDIO research seedbed in applied Analytics and Machine Learning

### Consulting analyst

**TransMilenio S.A.**

📅 Apr 2019 - Mar 2020          📍 Bogotá, Colombia

- Proposed optimization models and machine learning strategies to support decision-making for the technical department of buses

### Instructor – Discrete-event simulation

**Universidad de los Andes**

📅 Jan 2018 - Jul 2019          📍 Bogotá, Colombia

- Trained the students to model systems and their stochastic behavior by analyzing the data, and to propose changes and evaluate them in a simulated environment to generate recommendations in real-life problems

### Technology & Analytics consultant

**World Bank Group**

📅 Mar 2018 - Jul 2018          📍 Bogotá, Colombia

- Supported World Bank activities on non-motorized transport as a short term consultant. Focused on sustainable transportation and analysis and promotion of the use of bicycles in Bogotá

### Functional analyst

**Zettai Consulting - Ajover**

📅 Mar 2017 - Jan 2018          📍 Bogotá, Colombia

- Implemented tools and strategies to get data-drive valuable business insights by identifying, analyzing, and interpreting trends and patterns using statistical techniques
- Planned, develop and delivered data-science solutions, understanding business needs, and objectives

### Graduate teaching assistant / Lecturer

**Universidad de los Andes**

📅 Jan 2014 - Dec 2016          📍 Bogotá, Colombia

- Teaching assistant - *Discrete-event Simulation* from Jan to Dec 2016
- Lecturer - *Mechanical system dynamics* teaching about the principles of dynamics, kinetics and kinematics of particles and rigid bodies from Jul to Dec 2015
- Teaching assistant - *Manufacturing Systems* from Jan 2014 to Jul 2015

## 👤 ABOUT ME

I am a perseverant and hardworking individual that enjoys challenges and looks forward to learning new things all the time. I am interested in machine learning, data science, and robotics. I am keen to apply my knowledge to find efficient and creative solutions to impact society positively. I am motivated to work in multidisciplinary schemes in which I can learn from my co-workers. I am an organized and self-driven person, very dedicated to my work, which adapts easily to different responsibilities.

## ⚙ TECHNICAL SKILLS

| Skill | Level |
|---|---|
| **Python** | ●●●●● |
| **PyTorch** | ●●●●● |
| **R** | ●●●●○ |
| **MATLAB** | ●●●○○ |
| **SQL** | ●●●●○ |
| **Deep Learning** | ●●●●○ |
| **Machine Learning** | ●●●●○ |
| **Analytics** | ●●●●○ |

## 🏆 ACHIEVEMENTS

**Knowledge Evolution**
Going next level everyday by continuous learning of technical and scientific knowledge

**DS4A - Colombia Cohort 5l**
Selected as one of the 620 over 9000 applicants for advanced education in data science, sponsored by the Colombian government

**Graduated Teaching Assistance**
Granted as an excellence recognition

**Quiero Estudiar Scolarship**
Half-tuition scholarship for undergraduate studies

# 🎓 EDUCATION

## M.Sc. in Industrial Engineering (CGPA: 4.37 / 5.0)
### Universidad de los Andes

📅 Jan 2016 - Dec 2016     📍 Bogotá, Colombia

- **Thesis:** A methodology for option pricing in electricity markets. Case study Colombia
  **Advisor:** Professor Sergio Cabrales
- **Research areas:** Analytics, energy economics, simulation, energy derivatives, statistics

## M.Sc. in Mechanical Engineering (CGPA: 4.39 / 5.0)
### Universidad de los Andes

📅 Jan 2014 - Jun 2015     📍 Bogotá, Colombia

- **Thesis:** Design and implementation of passive weight compensation for a robotic manipulator
  **Advisor:** Professor Carlos Francisco Rodríguez
- **Research areas:** Robotics, weight compensation, nonlinear optimization, manipulator kinematics

## B.Sc. in Industrial Engineering (CGPA: 4.19 / 5.0)
### Universidad de los Andes

📅 Jan 2010 - Dec 2014     📍 Bogotá, Colombia

- **Graduating project:** Formulation and evaluation of a integer optimization model for route design in BRT systems under uncertainty in demand
  **Advisor:** Instructor Daniel Duque
- **Research areas:** Stochastic optimization, route design problems

## B.Sc. in Mechanical Engineering (CGPA: 4.16 / 5.0)
### Universidad de los Andes

📅 Jan 2010 - Dec 2013     📍 Bogotá, Colombia

- **Graduating project:** Design and implementation of an exoskeleton for assistance in extension and flexion movements of human elbow
  **Advisor:** Professor Carlos Francisco Rodríguez
- **Research areas:** Orthesis design, rehabilitation robotics

# ✳ CERTIFICATES

- **Deep Learning Specialization**. DeepLearning.AI, Coursera
- **DeepLearning.AI TensorFlow Developer Specialization**. DeepLearning.AI, Coursera
- **Natural Lenguage Processing Specialization**. DeepLearning.AI, Coursera
- **AI for Medicine Specialization**. DeepLearning.AI, Coursera
- **Generative Adversarial Networks (GANs) Specialization**. DeepLearning.AI, Coursera
- **Self-Driving Cars Specialization**. University of Toronto, Coursera
- **Advanced Business Analytics Specialization**. University of Colorado Boulder, Coursera *(On course)*

# 📑 JOURNAL PUBLICATIONS

- Is the built-environment at origin, on route, and at destination associated with bicycle commuting? A gender-informed approach.
  Higuera-Mendieta, D., **Uriza, P. A.**, Cabrales, S. A., Medaglia, A. L., Guzman, L. A., Sarmiento, O. L. (2021). In *Journal of Transport Geography*, 94, 103120.
  https://doi.org/10.1016/j.jtrangeo.2021.103120
- Design of Passive Weight Compensation for a Robotic Manipulator
  **Uriza, P. A.**, Rodriguez C.F. (2015). In *Applied Mechanics and Materials*, (Vol. 798, pp. 30-35). Trans Tech Publications Ltd
  https://doi.org/10.4028/www.scientific.net/AMM.798.30

# ⚡ STRENGTHS

Quantitative Analysis   Goal oriented
Decision Making   Leadership
Multidisciplinary Teamwork
Flexibility and Adaptability
Communication Skills

# 🌐 LANGUAGES

Spanish    ●●●●●
English    ●●●●●
Portuguese    ●●○○○
German    ●○○○○

# 🎮 HOBBIES

- **Reading papers**
  Being updated on trending research topics
- **Amateur musician**
  Playing guitar and singing
- **Cooking**
  Experimenting with new recipes
- **Travelling**
  Always fond of traveling to new places
- **Community service**
  Volunteer teaching kids in vulnerable contexts

# ✈ REFERENCES

**Prof. Carlos Francisco Rodríguez**
@ crodrigu@uniandes.edu.co
💼 Associate professor at the Mechanical Engineering Department, Universidad de los Andes

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**Daniel Ardila Palomino Palomino**
@ daniel.ardilapalomino@sony.com
💼 Engineer at Perception Systems Group, Sony Europe B.V. Zweigniederlassung Deutschland