

PABLO ANDRÉS URIZA

Data Scientist / Educator

✉ andres920310@gmail.com ☎ +57 304 3873279 📍 Bogotá, Colombia
in <https://www.linkedin.com/in/andres920310/> 🌐 <https://github.com/pa-uriza>



WORK EXPERIENCE

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
- Advisor of graduating projects

Consulting analyst

TransMilenio S.A.

📅 Apr 2019 - Mar 2020 📍 Bogotá, Colombia

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

Instructor – Discrete-event simulation

Universidad de los Andes

📅 Jan 2018 - Jul 2019 📍 Bogotá, Colombia

- Classes ranged around 60-70 students
- Created and administered classwork guides, quizzes, homework, and examinations
- Taught students applications of probability and statistics to real-life problems
- 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

Technology & Analytics consultant

World Bank Group

📅 Mar 2018 - Jul 2018 📍 Bogotá, Colombia

- Support World Bank activities on non-motorized transport as a short term consultant. The project 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 transform raw data into valuable business insights
- Identified, analyzed, and interpreted trends and patterns using statistical techniques
- Selected, configured and implemented data-science solutions, understanding business needs, and objectives

Graduate teaching assistant

Universidad de los Andes

📅 Jan 2014 - Dec 2016 📍 Bogotá, Colombia

- Classes ranged around 60-70 students
- Supported the course Discrete-event Simulation from Jan 2016 to Dec 2016
- Supported the course 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

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 51**
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 Scholarship**
Half-tuition scholarship for undergraduate studies

Lecturer – Mechanical system dynamics

Universidad de los Andes

📅 Aug 2015 - Dec 2015

📍 Bogotá, Colombia

- Classes ranged around 30-40 students
- Created and administered classwork guides, quizzes, homework, and examinations
- Taught students various topics about the principles of dynamics, including kinetics and kinematics of particles and rigid bodies

🎓 EDUCATION

M.Sc. in Industrial Engineering

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
- **CGPA:** 4.37 / 5.0

M.Sc. in Mechanical Engineering

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
- **CGPA:** 4.39 / 5.0

B.Sc. in Industrial Engineering

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
- **CGPA:** 4.19 / 5.0

B.Sc. in Mechanical Engineering

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:** Orthosis design, rehabilitation robotics
- **CGPA:** 4.16 / 5.0

🌟 CERTIFICATES

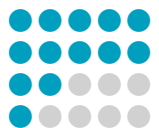
- **Deep Learning Specialization.** DeepLearning.AI, Coursera
- **DeepLearning.AI TensorFlow Developer Specialization.** DeepLearning.AI, Coursera
- **Natural Language Processing Specialization.** DeepLearning.AI, Coursera
- **AI for Medicine Specialization.** DeepLearning.AI, Coursera
- **Generative 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*)

⚡ 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

Daniel Ardila Palomino Palomino

@ daniel.ardilapalomino@sony.com

📚 Engineer at Perception Systems Group, Sony Europe B.V. Zweigniederlassung Deutschland