PABLO ANDRÉS URIZA

Data Scientist / Educator

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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

Short term consultant
World Bank Group

📅 Mar 2018 - Jul 2018   📍 Bogotá, Colombia

- Participated as a consultant in a project focused on sustainable transportation to analyze and promote 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 Mechanical and Industrial engineer who enjoys challenges and looks forward to learning new things all the time. I am interested in robotics, machine learning, and data science. I am keen to apply my knowledge in order to find efficient and creative solutions. 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, that adapts easily to different responsibilities.

⚙ TECHNICAL SKILLS

Skill	Level
Python	●●●●●
R	●●●●●
MATLAB	●●●●○
Machine Learning	●●●●○
Deep Learning	●●●●○
SQL	●●●●○
Analytics	●●●●○
Power BI	●●●○○
Big Data	●●○○○
MS Office	●●●●○

🏆 ACHIEVEMENTS

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

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

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

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 2016 - Dec 2016   📍 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 2014 - Jun 2015   📍 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
- **CGPA**: 4.16 / 5.0

❇CERTIFICATES

- **Advanced Business Analytics Specialization**. University of Colorado Boulder, Coursera
- **Deep Learning Specialization**. DeepLearning.AI, Coursera
- **DeepLearning.AI TensorFlow Developer Specialization**. DeepLearning.AI, Coursera
- **AI for Medicine Specialization**. DeepLearning.AI, Coursera
- **Self-Driving Cars Specialization**. University of Toronto, Coursera
- **Big data Specialization** (*in course*). University of California San Diego, Coursera

⚡STRENGTHS

Quantitative Analysis   Goal oriented

Decision Making

Excel in Under Pressure

Motivator & Leader

Conflict Resolution

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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Carlos Andrés Ardila Palomino
@ ardila11.08@gmail.com
🏢 Data Scientist at ADDI