

Andrés Ladino, PhD

Electrical Engineer & PhD in Automation

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Paris, France

EXPERIENCE

Data Scientist - RATP Group / Talan

Since 01/ 2022 Paris, France

- Improving maintenance information tools via predictive analytics for railway systems. Developed AI technologies/algorithms for predictive maintenance, reducing diagnostic times in 1.5x.

Research Engineer - IFSTTAR / UGE

01/ 2018 – 11/2021 Lyon, France

- Lead the **ENSEMBLE** traffic team for assessment evaluation. Designed software, data collection protocols and experimental design. 6 largest european OEMs participated in the experiment. Implemented (Python, C++) platooning software architectures and interfaces with microscopic traffic simulators (**Vissim** and **Symuvia**)

Research assistant - CNRS / INRIA

09/2014 – 09/2017 (3 Years) Grenoble, France

- Developed in cooperation with **DIR-CE** the traffic use case **GTL** for the **SPEEDD** project. Conceived new **real time forecasting algorithms** for traffic networks.

Graduate researcher - IPAM

09/2015 – 10/2015 (2 months) Los Angeles, USA

- Presented key research results as a **Visitor Researcher at UCLA** (+50 attendees). Designed statistical learning algorithms to estimate and predict travel time in traffic networks.

Instructor Professor - Pontifical Xavierian University

01/2011 – 08/2014 (3 Years) Bogota, Colombia

- Developed the communication program for the EU **ADDE SALEM** project, performed interviews to 10 key stakeholders of joint degrees in between Latin America and Europe. Instructed courses for (+150 students) in 3rd year: Automatic Control, Automatic Control Laboratory and Dynamical Systems.

Process Analyst - IBM

08/2007 – 04/2009 (1½ Years) Bogota, Colombia

- Responsible for documentation of Operational Service Manuals (OSM) jointly with IT management team for 3 main projects: Customers: **Avianca** (>50 users), **Belcorp** (25~50 users), **Colseguros** (25~50 users),

PROJECTS

ENSEMBLE - European Union/IFSTTAR

2018-2021 Lyon, France

SPEEDD - European Union/CNRS

2014-2017 Grenoble, France

ADDE SALEM - EU | Pontifical Xavierian University

2018-2021 Bogota, Colombia

PUBLICATIONS

Full list at <https://www.andresladino.com/publication/>

EDUCATION

Ph.D. Automatic Control

Université Grenoble Alpes

09/2014 – 09/2018 Grenoble, FR

M.Eng. Electronic Engineering

Pontifical Xavierian University

07/2009 – 12/2011 Bogota, CO

B.Eng. Electronic Engineering

Pontifical Xavierian University

01/2003 – 09/2008 Bogota, CO

TECHNICAL

Software Architecture Automatic Control
Statistical Learning Deep Learning

Programming Languages:

- Python: (Proficient) Libraries: Pandas, Numpy, TensorFlow, Dask, PySpark, Scikit-learn
- C++: (Comfortable) Libraries: Boost, Symu-Via
- Matlab/R: (Comfortable)
- Julia/Go: (Beginner)

Tools:

Linux Shell Docker git CMake

Data Tools, Cloud platforms:

SQL Google Cloud

QUALIFICATIONS

- Data Scientist with Python
- Machine learning in Python
- Deep Learning AI TensorFlow Development
- Digital Transformation Using AI/ML - GCP

AWARDS

Honorable Mention, Master Thesis - PUJ

April, 2012 Bogota, Colombia

2nd Prize, M.Sc Student Thesis Contest-IEEE

October 2012 Las Vegas, USA

PhD Scholarship - CNRS

October 2014 Grenoble, France

Research visitor scholarship - IPAM/UCLA

October 2015 Los Angeles, USA