Andrés Ladino, PhD

Electrical Engineer & PhD in Automation

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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 Xaverian 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 ($1_{1/2}$ 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 Xaverian 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 Xaverian University
07/2009 – 12/2011   Bogota, CO

B.Eng. Electronic Engineering
Pontifical Xaverian 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:
- SQL

QUALIFICATIONS

- Data Scientist with Python
- Machine learning in Python
- 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