

Andrés Ladino PhD

Data Scientist & Research Engineer

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📍 Paris, FRANCE 🇨🇴 Colombian

EXPERIENCE

Data Scientist

Talan

📅 01/ 2022 – Ongoing 📍 Paris, France

- Working towards the development of data analysis models for predictive maintenance of train fleet within the RATP Group.
- Data science, model and implementation of new features for SERVAL 2. Official maintenance application for train/metro fleet within RATP.

Research engineer

IFSTTAR/UGE

📅 01/ 2018 – 11/2021 📍 Lyon, France

- Lead a [ENSEMBLE](#) team working on assessment for traffic impact of automated vehicle technologies (Data collection protocols, use cases, experimental design);
- Implemented (Python, C++) platooning software architectures and interfaces with microscopic traffic simulators ([Vissim](#) and [Symuvia](#));
- Analysed ADAS protocols to ensure platooning communication at simulation level;
- [Core participant](#) in the long program on Autonomous Vehicles [IPAM UCLA](#)

Research assistant

CNRS / INRIA

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

- Developed and deployed the [GTL](#) website (Traffic Use Case for the [SPEEDD project](#));
- Developed [real time forecasting algorithms](#) for traffic networks.
- Developed algorithms to reconstruct and estimate missing data.

Graduate researcher

IPAM

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

- [Visitor Researcher UCLA](#)
- 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 programs for the EU [ADDE SALEM](#) project jointly with 8 European institutions to assess the performance of joint degrees in between Latin America and Europe
- Instructed courses for 3rd year students in: Automatic Control, Automatic Control Laboratory and Dynamical Systems.

MOST PROUD OF



International experience

Having the opportunity to work in an international environment

STRENGTHS

Software Architecture

Dynamic simulation

Model setup

Automatic Control

Statistical Analysis

Intelligent Transportation Systems

Statistical Learning

Machine Learning

Deep Learning

Python

git

C++

CMake

Linux

SQL

R

Matlab

Docker

Julia

LANGUAGES

Spanish



English



French



German



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

Process Analyst

IBM

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

- Analyzed and adapted Business Process Management (BPM) practices IT Services for Strategic Outsourcing contracts.
- Coordinated and deployed Operational Service Manuals (OSM) jointly with IT management for 3 main projects: Customers: [Avianca](#), [Belcorp](#), [Colseguros](#)

PROJECTS

ENSEMBLE

European Union/IFSTTAR

📅 3 years 📍 Lyon, France

Role: Coordinator Work Package 4.5. [ENSEMBLE](#) is a European Union funded research project to pave the way for the adoption of multi-brand truck platooning in the European market to improve traffic safety, throughput and fuel economy.

SPEEDD

European Union/CNRS

📅 3 years 📍 Grenoble, France

Role: Research assistant. [SPEEDD](#) was a funded European research project for Development of real-time event recognition and forecasting technology operating on Big Data.

ADDE SALEM

European Union/Politecnico di Milano - Pontifical Xaverian University

📅 3 years 📍 Bogota, Colombia

Role: Communications chair. [Adde Salem](#) analysed to what extent engineering joint degrees' curricula reflected job market needs in the most developed countries of Latin America.

RESEARCH EXCHANGES

Core Participant

IPAM UCLA

📅 December 2020/December 2015 📍 <http://www.ipam.ucla.edu/>

I attended to a series of workshops and research exchanges between mathematicians and practitioners in several domain fields:

- 2015: [New directions in Mathematical Approaches for Traffic Flow Management](#)
- 2020: [Mathematical Challenges and Opportunities for Autonomous Vehicles](#)

PUBLICATIONS

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

CERTIFICATIONS

Data Scientist/Data Analyst

Data Camp

📅 April 2019 📍 Virtual

Online lectures & projects on Data Science

- [Data Scientist with Python](#)
- [Data Analyst with Python](#)
- [Machine learning in Python](#)

AWARDS

2nd Prize, Student Thesis Contest

IEEE, Industry Applications Society

📅 October 2012 📍 Las Vegas, USA

This prize recognizes the best emerging academic work on the scope of the [Industry Applications Society](#).

Honourable Mention

Master Thesis

📅 April 2012 📍 Bogota, Colombia