

# ANDRES LADINO

## Research Engineer & Data Scientist

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📍 Lyon, FRANCE

## EXPERIENCE

### Research fellow

#### IFSTTAR/UGE

📅 01/ 2018 – Ongoing    📍 Lyon, France

- **ENSEMBLE** Team leader for studying traffic impact assessment of platooning technologies
- Implemented (Python, C++) platooning software architectures and interaction with microscopic traffic simulators;
- Analysed of ADAS protocols to ensure platooning communication at simulation level;
- Designed and created traffic scenarios for impact assessment;
- Created the data collection protocols adapted to impact studies.
- **Core participant** in the long program on Autonomous Vehicles **IPAM UCLA**

### Research assistant

#### CNRS / INRIA

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

- Researcher for **SPEEDD project** (within Traffic Use Case) at the NeCS.
- **Visitor Researcher UCLA**
- 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

- 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

- Courses taught: Dynamic systems, Control theory, Control laboratory.
- Lead the communication committee for the **Project ADDE SALEM**

### Process Analyst

#### IBM

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

- Analyzed and adapted Business Process Management (BPM) practices in IT Services for Strategic Outsourcing contracts.
- Coordinated and wrote Operational Service Manuals (OSM) jointly with IT management team: Customers: **Avianca, Belcorp, Colseguros**

## MOST PROUD OF



### International experience

Having the opportunity to work in an international environment

## STRENGTHS

Transports and Mobility

Dynamic simulation & Model setup

Automatic Control

Statistical Analysis

Intelligent Transportation Systems

Statistical Learning

Machine Learning

Python

git

C++

CMake

Linux

SQL

R

Matlab

## LANGUAGES

Spanish



English



French



## 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

## PROJECTS

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### 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.

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### 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.

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### 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

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### 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

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

## CERTIFICATIONS

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### 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

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### 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](#).

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### Honourable Mention

#### Master Thesis

📅 April 2012

📍 Bogota, Colombia