

# ANDRES LADINO

## Software & Research Engineer

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📍 Lyon, FRANCE

🇨🇴 Colombian

## EXPERIENCE

### Research engineer

#### IFSTTAR/UGE

📅 01/ 2018 – Ongoing    📍 Lyon, France

- Lead a [ENSEMBLE](#) team working on impact of for studying impact assessment 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 of 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 asses 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.

### 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](#)

## 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

Python

git

C++

CMake

Linux

SQL

R

Matlab

Docker

## 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

## 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 Xavierian 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.

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## 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