ANDRES LADINO

Software & Research Engineer

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EXPERIENCE

Research engineer
IFSTTAR/UGE

📅 01/ 2018 – Ongoing   📍 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 Xaverian 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.

Process Analyst
IBM

📅 08/2007 – 04/2009 (1 1/2 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 Xaverian University

📅 07/2009 – 12/2011 📍 Bogota, CO

B.Eng. Electronic Engineering
Pontifical Xaverian University

📅 01/2003 – 09/2008 📍 Bogota, CO

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 th 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