ANDRES LADINO

Research Engineer & Data Scientist

Sep 5 1986, 34   @ andres.ladino@vivaldi.net   📞 +33 660-41-7308   📍 Lyon, FRANCE
🌐 www.andresladino.com/   in andres-ladino   ⭘ aladinoster

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 Xaverian 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   Docker

LANGUAGES

Spanish   ● ● ● ● ●

English   ● ● ● ● ○

French   ● ● ● ● ○

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.

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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

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/

CERTIFCATIONS

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.

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Honourable Mention
Master Thesis

📅 April 2012   📍 Bogota, Colombia