

# ANDRES LADINO

## Research Control Engineer & Data Scientist

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## EXPERIENCE

### Postdoctoral researcher

#### IFSTTAR - French institute of science and technology for transport

📅 Jan 2018 - Ongoing 📍 Lyon, France

- I develop methods for control of connected vehicles and platoon strategies in complex traffic networks
- Measure impact of platoons in traffic flow (ENSEMBLE WP4.5).
- I have participated in the Autonomous Vehicles workshop at IPAM (<http://bit.ly/IPAM-AV>)

### Research assistant

#### Centre National de la Recherche Scientifique (CNRS) / INRIA

📅 August 2014 - October 2017 📍 Grenoble, France

- I was SPEEDD project collaborator (within Traffic Use Case).
- Visitor reesearcher at IPAM (<http://bit.ly/Speech-IPAM>)
- I have developed short-term forecasting algorithms for traffic networks. Real-time operation at (<http://gtl.inrialpes.fr/status>)

### Instructor Professor

#### Pontifical Xavierian University - Universidad Javeriana

📅 January 2011 - August 2014 📍 Bogota, Colombia

- I taught: Dynamic systems, Control theory, Control laboratory
- I was leader of the communication committee. Project ADDE SALEM

### Process Analyst

#### IBM - International Business Machines

📅 Aug 2007 - Apr 2009 📍 Bogota, Colombia

- Process Analyst: Business Process in IT Services / Strategic Outsourcing
- IT Manuals: Avianca (Airline), Belcorp (Beauty), Colseguros (Insurance)

## PROJECTS

### ENSEMBLE

#### European Union/IFSTTAR

📅 3 years

The main goal of the ENSEMBLE project is to pave the way for the adoption of multi-brand truck platooning in Europe to improve traffic safety, throughput and fuel economy. (<http://bit.ly/EnsemblePlatoon>)

### SPEEDD

#### European Union/CNRS

📅 3 years

Development of real-time event recognition and forecasting technology operating on Big Data. (<http://bit.ly/SpeeddEU>)

## LIFE PHILOSOPHY

*"I would rather have questions that can't be answered than answers that can't be questioned."*

## MOST PROUD OF



### Being persistant in life

Starting a new life in a new country

## STRENGTHS

Hard-working Organized Eye for detail

Motivator Good listener

C++ Python R

Matlab Traffic Flow Theory

Intelligent Transportation Systems

Automatic Control

Statistical Analysis & Learning

## LANGUAGES

Spanish ●●●●●

English ●●●●●

French ●●●●●

## EDUCATION

### Ph.D. in Automatic Control

#### Université Grenoble Alpes

📅 Sept 2014 - Mar 2018

Thesis title: Estimation and prediction in large scale traffic networks

### M.E. in Electronics

#### Pontifical Xavierian University

📅 Jul 2009 - Dec 2011

### B.E. in Electronics

#### Pontifical Xavierian University

📅 Jan 2003 - Sep 2008

## PROJECTS

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### ADDE SALEM

European Union/Politecnico di Milano - Pontifical Xavierian University

 3 years

Adde Salem analysed to what extent engineering joint degrees' curricula reflected job market needs in the most developed countries of Latin America. (<http://bit.ly/AddaSalem>)

## PUBLICATIONS

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### Journal Articles

- Duret, Aurelien, Meng Wang, and Andres Ladino (2019). "A hierarchical approach for splitting truck platoons near network discontinuities". In: *Transportation Research Part B: Methodological*. ISSN: 01912615. DOI: 10.1016/j.trb.2019.04.006.
- Ladino, Andres, A. Y. Kibangou, et al. (2017). "A real time forecasting tool for dynamic travel time from clustered time series". In: *Transportation Research Part C: Emerging Technologies* 80, pp. 216–238. ISSN: 0968090X. DOI: 10.1016/j.trc.2017.05.002.

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### Conference Proceedings

- Duret, A, A Ladino, and M Wang (2018). "Hierarchical multi-injection strategy and platoon manoeuvres at network junctions". In: *2nd Symposium on Management of Future Motorway and Urban Traffic Systems*. Ed. by EU. Vol. 2. Ispra, pp. 11–13.
- Ladino, Andres, Carlos Canudas-de-Wit, et al. (2018). "Density and flow reconstruction in urban traffic networks using heterogeneous data sources". In: *2018 European Control Conference (ECC)*. ed. by IEEE. Limasol, Chyprus: IEEE, pp. 1679–1684. ISBN: 978-3-9524-2698-2. DOI: 10.23919/ECC.2018.8550267.
- Ladino, Andres, Alain Kibangou, et al. (2017). "Travel time forecasting from clustered time series via optimal fusion strategy". In: *2016 European Control Conference, ECC 2016*, pp. 2234–2239. ISBN: 9781509025916. DOI: 10.1109/ECC.2016.7810623.
- Ladino, Andres and Diego Patino (2013). "On the stability of predictive controllers for linear systems with variable time delays". In: *2013 American Control Conference (Acc)*, pp. 3254–3259. ISBN: 0743-1619; 978-1-4799-0178-4. DOI: 10.1109/ACC.2013.6580333.
- Duret, Aurelien, Meng Wang, and Andres Ladino (in press 2019). "A Hierarchical Approach For Splitting Truck Platoons Near Network Discontinuities". In: *23rd International Symposium on Transportation and Traffic Theory, ISTTT*.

## REFEREES

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