ANDRES LADINO

Research Control Enginer & Data Scientist

contact@andresladino.com +33 660-41-7308 25, Avenue François Mitterrand, 69675 Bron
Lyon, FRANCE www.andresladino.com/ @aladinoster linkedin.com/in/andres-ladino
github.com/aladinoster orcid.org/0000-0002-1198-2287

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 Xaverian 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

ADDE SALEM

European Union/Politecnico di Milano - Pontifical Xaverian 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/AddeSalem)

PUBLICATIONS

Journal Articles

- Duret, Aurelien, Meng Wang, and Andres Ladino (in press 2019[b]). "A Hierarchical Approach For Splitting Truck Platoons Near Network Discontinuities". In: *Transportation Research Part B: Methodological*.
- 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.

Conference Proceedings

- Duret, Aurelien, Meng Wang, and Andres Ladino (in press 2019[a]). "A Hierarchical Approach For Splitting Truck Platoons Near Network Discontinuities". In: *23rd International Symposium on Transportation and Traffic Theory, ISTTT*.
- 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. (June 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.

REFEREES

Nour-Eddin El Faouzi
@ IFSTTAR
nour-eddin.elfaouzi@ifsttar.fr
LICIT UMR T 9401 Univ Lyon, France
Cité des mobilités 25 Av François Mitterrand

Carlos Canudas de Wit
@ CNRS
carlos.canudas-de-wit@gipsa-lab.fr
Département d'Automatique de Grenoble
GIPSA-Lab, UMR CNRS 5216 BP. 46, F-38402