

Julián M. Del Fiore

Computer Networks Ph.D. Student

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Argentinian/Italian
Born December 20, 1990



At a glance

Currently, as part of my Ph.D. "Verifiable Data Plane", I have performed large-scale active-measurement campaigns in order to evaluate the discrepancies between the control and the data plane on the Internet from multiple vantage points, over time. I have developed a modular framework that enables several combinations of conservative heuristics whose aim is to filter noise generated by, for example, incomplete traces, sibling ASs, IXPs or third-party addresses. Concerning my previous work, before starting my Ph.D. I worked on Industrial Wireless Networks and participated in the implementation of a cross-layer protocol that improves on the performance of the currently used in 6TiSCH networks (RPL+TSCH) for the Industry 4.0. The work was done in ContikiOS and the simulations run in COOJA.

I am an enthusiastic hard-worker Engineer that is interested in learning and constantly improving his knowledge. I am always looking forward to new challenges in my career: I started with Electronics, moved to Industrial Wireless Networks, and now I am getting involved with Cored Networks. I love learning new languages and exploring other cultures, reasons why I have moved to France. I like discussing and sharing knowledge, either by teaching or by collaborating with new people in any research project.

Professional experience

- 2018 - Now **Assistant Teacher**, Télécom Physique Strasbourg - University of Strasbourg, France,
Courses: TCP/IP, Algorithms and Programming in C.
- 2017 - Now **Researcher**, Network Research Team, ICube Laboratory, Strasbourg, France,
Subject: "Verifiable Data Plane"
Supervisors: Cristel Pelsser.
- 2017 **Research Intern**, IMT Atlantique, Rennes, France,
Subject: "Toward Reliable and Deterministic Networks in Industrial-IoT applications"
Supervisors: Dr. Georgios Z. Papadopoulos and Prof. Nicolas Montavont.
- 2011 - 2017 **Instructor**, Freelance, Private teacher.

Education

- 2017 - Now **Ph.D. Student**, University of Strasbourg, France.
- 2010 - 2017 **Electronic Engineer**, University of Buenos Aires, Argentina,
Diploma of Honor – Final Average: 8.69/10.
- 2004 - 2009 **English Bilingual Electronic and Electromechanical Technician**, Escuela Philips, Argentina,
Final Average: 8.87/10.

List of Publications

- 2019 *"Filtering the Noise to Reveal Inter-Domain Lies"*, Julián M. Del Fiore, P. Merindol, V. Persico, C. Pelsser, A. Pescapé. Under submission In TMA 2019.
- 2018 *"From Best-Effort to Deterministic Packet Delivery for Wireless Industrial IoT Networks"*, R. A. Koutsiamanis, G. Z. Papadopoulos, X. Fafoutis, Julián M. Del Fiore, P. Thubert, N. Montavont. In IEEE Transactions on Industrial Informatics 2018. Impact Factor: 6.764
- 2017 *"Towards Deterministic Industrial Networks"*, M. Kersalé, G. Z. Papadopoulos, Julián M. Del Fiore, P. Thubert, N. Montavont. In AlgoTel-CoRes 2017 (French speaking conference).

Scholarships

- 2017 - Now **Initiative D'Excellence (IdEX)**, Ph.D. funding provided by French National Research Agency as part of the "Investments for the future" program.
- 2016 - 2018 **YPF Foundation**, granted to only 200 students across all Argentina, due to academic excellence.

Complementary Education

- 2018 **TMA Ph.D. School – 'Hands on Big Data for TMA'**, presented poster at Network Traffic Measurement and Analysis Conference (TMA) Ph.D. School
- 2018 **Machine Learning**, completed Andrew Ng Coursera's course: introduction to machine learning, datamining, and statistical pattern recognition.

Awards

- 2008 **Argentinian Chemistry Olympiad** - Level 1/3, 1st prize.
- 2007 **Argentinian Chemistry Olympiad** - Level 1/3, 3rd prize.
- 2007 **Argentinian Physics Olympiad** - 3rd prize.

Organized Events

- 2018 **Cryptocurrency: Blockchain Technology** - Seminar introducing to Bitcoin Blockchain technology and other Blockchain applications.

References

- Cristel **Professor**, *ICube Laboratory*, University of Strasbourg, France.
Pelsser pelsser@unistra.fr - *Ph.D. Supervisor*
- Pascal **Associate Professor**, *ICube Laboratory*, University of Strasbourg, France.
Merindol merindol@unistra.fr - *Ph.D. Co-Advisor*
- Georgios **Associate Profesor**, *IMT-Atlantique*, Rennes, France.
Papadopoulos georgios.papadopoulos@imt-atlantique.fr - *Internship Supervisor*

Languages

Spanish - Mother Tongue , **English** - Advanced, **French** - Intermediate

Interests & hobbies

Guitar, Photography, Traveling