

Paul Ferrand

Senior Researcher

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34 ans



Current status

Since Oct.2014 **Senior Researcher, Huawei Technologies, French Research Center.**

I joined the Signal and Information Processing team of Huawei's research center in Paris in 2014. I am working as an internal consultant, providing expertise to other teams on prototypes and products by working closely with them to understand, model and solve hard problems they encounter during development. I also develop and maintain the simulation platforms and technological assets of my team, and I regularly publish papers and propose patents on the subjects I work on.

Since Feb.2014 **Assistant Professor in Applied Mathematics and Computer Science.**

I am a trained undergraduate/graduate professor with more than 600 hours of lectures and labs. I teach around 40 hours each year in universities on subjects related to mathematics, numerical analysis and signal processing.

Training

2009-2013 **Ph.D. in Electrical Engineering, INSA Lyon, CITI Laboratory.**

2008-2009 **M.Sc. in Computer Science, INSA Lyon, Computer Science Department, (with honors).**

2003-2008 **M.Eng. in Computer Science, INSA Lyon, Computer Science Department.**

Work experiences

2013-2014 **Post-doctoral fellow, Inria, Socrate team, Lyon.**

- Distributed interference alignment for cellular networks

2012-2013 **Assistant Professor, INSA Lyon.**

- Teaching classes on computer networking, network security, programming languages and databases.

2009-2012 **Ph.D. Student, CITI Laboratory, INSA Lyon.**

- *Advisors : Dr. Claire Goursaud and Pr. Jean-Marie Gorce*
- Cooperative communications in Body Area Networks

2009 **M.Sc. student, CITI Laboratory, INSA Lyon.**

- *Advisor : Pr. Marine Minier*
- Cryptanalysis of hashing functions derived from the AES block cipher

And before:

- Research engineer in 2008-2009, implementing cryptographic primitives on embedded systems
- Part-time technical support specialist in 2005-2007 for Microsoft

Technical abilities

Maths	Signal processing, statistics and machine learning, optimization theory, information theory
Programming	Python, C++, C ; notions of Kotlin, Java, C#
Tools	MATLAB, Numpy, Tensorflow/Keras, Mathematica, \LaTeX
Systems	GNU/Linux, Windows and Microsoft Server products, FreeBSD

Others

Languages Fluent in french and english; beginner in japanese and chinese.

Hobbies I play guitar and piano, and I love to spend time integrating and developing audio applications. In particular, I have been working to implement an open-souce sampler player and drum machine adapted for Raspberry Pis.

Volunteering I am a trained camp counselor and director for various non-profit youth organizations in France. In the past 10 years, I organized multiples gatherings and camps from 50 to 12000 people, including thematic camps aimed at helping teenagers develop and share their talents in music, cinema, photography and theatre.