Romain R. Brault
Résumé

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TL; DR: Dynamic and curious, I am a Machine Learning and programing enthusiast looking for a senior ML research position, in France (Paris) or Brazil (São Paulo).

Positions

III-V Lab, Thalès
Research Scientist   **Current, from December 2018**
The purpose of our team is to explore, select, analyse and prototype new (deep) ML technologies that look promising, to improve their Technoly Readyness Level (TRL).
We have the double role of directly conducting original research projects for clients (TRL 1-4); but also listen to the need of the company Buisness Units to provide them innovative and state of the art solutions tailored to their needs.

L2S, Centrale-Supélec
Post-Doctoral Fellow **October 2018, from October 2017**
My research were directed toward learning function-valued functions. We provided a Tensorflow implementation of the proposed method This postdoc is done in collaboration with the CMAP laboratory at École Polytechnique.

Department of Computing, Imperial College London
Master Thesis   **September 2013, from Mai 2013**
Worked on Finite Elements Method: modified Fluidity's code to integrate bended elements to the FEniCS project.

Technical Skills

- **Python**, Pandas, PyTorch, **Tensorflow**, Scikit-Learn, Multiprocessing, Dash, Websocket, …
- C/C++, x86 Assembly, Hardware, OpenMP, MPI **CI/CD**, DevOps, **MLOps**, Open-source contribs,
- LaTeX, Machine Learning, Statistics, Func. Analysis,
- Agile project management (gitlab)

Soft Skills

Open Minded

I like listen to everyone's viewpoints, take decisions accordingly, and enjoy to keep learning through discussions and keep in mind the scientific method.

Passionate

I have been interested in computer science for a long time and my education and research have cemented this interest into a passion. I particularly enjoy machine learning as it is at the crossroad of a large spectrum of disciplines, and requires to always learn more about many subjects.

Innovation with guarantees

During my postgraduate studies I took great pleasure in tackling challenging problems with rigor: studying the state of the art, proposing new solutions, studying them empirically and theoretically but also providing robust a implementation by documenting and using continuous integration tools.

Education

2013 – 2017	**Doctor of Philosophy** Machine Learning *UEVE & Télécom ParisTech*	
2012-2013	**Master of Science** Computer Science *Imperial College London*	
2010 – 2013	**Diplôme d'ingénieur** Computer Science *ENSIIE, Paris-Saclay*	
2010 – 2011	**Bachelor of Science** Mathematics *UEVE, Paris-Saclay*	

Publications

4 publications in peer-reviewed proceedings (h-idx 2, 34 cit.) and 3 Patents submited at Thales. See Google scholar: citations?user=IFkrCzYAAAAJ.

Doctoral Research

"Large-Scale Operator-Valued Kernel Regression"
My doctoral studies have been motivated by my desire to applied mathematical knowledge to practical applications. I enjoy providing robust pieces of software along with theoretical guarantees. I also had the opportunity to be a teaching assistant at UEVE and Télécom ParisTech.

Distinctions

2012	**Best engineering project** *Among the French Junior Entreprises*	
2011	**Top Achiever Award** *Best Individual Project (out of 109)*	

Languages

French (native), **English** (Fluent), **Portuguese** (beginner), **German** (notions)

References

	Pr. Florence d'Alché-Buc
Position	Full Professor
Employer	*LTCI, Télécom ParisTech*
Email	florence.dalche@enst.fr

Hobbys

In my spare time I enjoy practicing photography (see 500px.com/romainbrault) as well as climbing, trekking and bicycle. I spend most of my holidays in Brazil.