Romain R. Brault
Résumé

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TL; DR: Dynamic and curious, I am a Machine Learning and programing enthusiast looking for a research position, in France or abroad.

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. During this thesis I have been conducted to develop and maintain the open-source library Operalib which aims at implementing state of the art operator-valued kernel based algorithms and being fully compatible with Scikit-Learn. I also had the opportunity to be a teaching assistant at UEVE and Télécom ParisTech.

Positions

III-V Lab, Thalès
Research Scientist   **Current, from December 2018**

L2S, Centrale-Supélec
Post-Doctoral Fellow **October 2018, from October 2017**
My current research is directed toward learning function-valued functions. We provide 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.

CMLA, ENS Cachan
Research Intern   **July 2012, from June 2012**
Implementation of a parallel lock-free SGD algorithm using OpenMP and SSE instructions. Also worked on a CUDA GPGPU implementation.

Soft Skills

Open Minded

I like listen to everyone's viewpoints, take decisions accordingly, and enjoy to keep learning through discussions.

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. See Google scholar: citations?user=IFkrCzYAAAAJ.

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), **German** (notions)

Technical Skills

Pandas, Python, Tensorflow, Scikit-Learn,

C/C++, x86 Assembly, Hardware, OpenMP, MPI Continuous Integration, Open-source contribs

LaTeX, Machine Learning, Statistics, Func. Analysis

References

	Pr. Florence d'Alché-Buc
Position	Full Professor
Employer	*LTCI, Télécom ParisTech*
Email	florence.dalche@enst.fr
	Dr. Zoltán Szabó
Position	Associate Professor
Employer	CMAP, École Polytechnique
Email	zoltan.szabo@polytechnique.edu

Hobbys

In my spare time I enjoy practicing photography (see 500px.com/romainbrault) as well as climbing and trekking. I used to practice archery.