Romain R. Brault



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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 InternJuly 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**

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

3 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

শ্রেEX, Machine Learning, Statistics, Func. Analysis

References

Pr. Florence d'Alché-BucPosition 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.

