Brice Olivier *25 years old*

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brice.olivier@inria.fr • +33.6.18.14.06.84 • https://brice-olivier.github.io/
25 rue du Docteur Roux • 38400 Saint-Martin-D'Heres • France

Education

Université Grenoble Alpes — Grenoble, France
PhD in Applied Mathematics. *Since October 2015*

Université Lumière — Lyon 2, France
MSc in Computer Science with specialization in Knowledge Discrovery in Databases *2015*
Major Fields : Machine learning, data analysis, statistics, optimization, bayesian network.

Université Claude Bernard — Lyon 1, France
BSc in Computer Science *2013*
Major Fields : Algorithmic, programming (system, parallel, object-oriented), database, mathematics.

Experience

Ensimag — Grenoble, France
Teaching *Since September 2016*
Applied Probabilities : Full-charge - 2nd year of engineering school (equivalent 1st year of Master's degree)- pseudo random number generators, random variable simulation, joint/conditional/marginal distributions, properties of some distributions, Markov chains.
Statistical methods : Lab sessions - 1st year of engineering (equivalent 3rd year of bachelor's degree) - descriptive statistics, estimators, confidence interval, hypothesis testing, linear regression.

Inria, Laboratoire Jean Kuntzmann, Gipsa-lab — Grenoble, France
Doctoral Research in Statistics *Since October 2015*
This PhD thesis, which allies cognitive sciences and statistics, interests in jointly modeling and analyzing eye-movement and electroencephalogram data which has been acquired from a set of subjects carrying out a press-review reading task. We want to characterize different states, or reading strategies, given eye-movement data in order to highlight different EEG patterns. The main challenge is to propose a statistical model which deals with a wide range of data types (discrete variables, continuous variables, multivariate time series, text) and which stays easily interpretable to better understand the way the human brain processes data.

Inria — Grenoble, France
Research Intern *2015 (6 months)*
Robust high dimension regression (Master's thesis)
Keywords : Robust regression, inverse regression, multivariate t distributions, gaussian mixture model, Student's t mixture model, expectation-maximization algorithm.

Laboratoire ERIC — Lyon, France
Research Intern *2014 (5 months)*
Data warehousing and OLAP analysis for textual data. From customer's needs to implementation. ImagiWeb, french national research agency (ANR) funded project.

e-Conception — Charnoz-Sur-Ain, France
Web Developer Intern *2012 (3 months)*
Web evelopment, database, cryptography.

Skills

Programming languages : Python, R, Matlab, Julia, C, C++, Java, HTML+CSS, PHP, SQL.
Operating Systems : Windows, Linux (Ubuntu, Debian) : bash, architecture.
Database management systems : Structured DBMS, semi-structured (XML, JSON), NoSQL (MongoDB)
Practices : Git, automation, conception, testing, data visualization.

Natural languages : French *(mother tongue)*, English *(full professional proficiency)*, Spanish *(limited working proficiency)*, Hindi *(beginner)*.

Activities

Postgraduate Education : Advanced Statistics and Data Mining Summer School, Madrid 2016. Deep learning reading group, Inria. Pedogogy training courses through doctoral school MSTII, Grenoble. A. Ng's Machine learning course on Coursera.
Personal Interests : New technologies, healthy/worldwide cooking, basket-ball, trail running, cycling.

References

Jean-Baptiste Durand, Assistant Professor at Grenoble INP, jean-baptiste.durand@imag.fr
Florence Forbes, Research Director at Inria, Grenoble, florence.forbes@inria.fr