

PAUL BASTIDE

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Educational Background

- 2014 – 2017 *Université Paris Sud*
Ph.D. in Applied Mathematics: “Shifted stochastic processes evolving on trees: application to models of adaptive evolution on phylogenies.” Supervised by Stéphane Robin (MIA, UMR 518 AgroParisTech/INRA) and Mahendra Mariadassou (MaIAGE, UR 1404 INRA).
University of Wisconsin - Madison.
During the fall of 2015, I was granted with a Fulbright fellowship to work with Cécile Ané at the Departments of Statistics and Botany.
- 2013 – 2014 *Université Paris Sud - École Polytechnique - ENS Cachan*
Master2 MathSV : Mathematics for Life Sciences.
Awarded with highest honors.
- 2010 – 2014 *École Polytechnique*
(One of France’s leading schools of science and engineering.)
Majoring in Applied Mathematics, track : ”Mathematics: Applications to Biology and Medical Science”.
- 2007 – 2010 *Lycée Privé Sainte Geneviève (Versailles, France)*
Classe Préparatoires: an intensive post-secondary program to prepare for the competitive entrance exams to the *Grandes Écoles*.
- 2007 *Baccalauréat Scientifique*
With English European Option, passed with highest honors.

Teaching

- Spring 2016 Measure theory and probabilities for third year Bsc students in Mathematics (L3 MFA: Mathématiques Fondamentales et Appliquées).
- Springs 2015/16 Introduction to Mathematical Modeling for third year Bsc students majoring in Mathematics (L3 MINT: Mathématiques en Interaction) at the University Paris-Sud.
- Fall 2014 Statistical hypothesis testing for third year Bsc students majoring in Biology (L3 Biologie et Santé) at the Université Paris-Sud.
- 2011 – 2012 Tutor at *GEPPM*, a national program to help underprivileged high school students to continue their studies after high school. One course a week.

Scientific Projects and Internships

- Apr. – Aug. 2014 Internship at the UMR 518 AgroParisTech / INRA (Paris).
Shifted Phylogenetic Comparative Methods.
Supervised by Stéphane Robin and Mahendra Mariadassou.
- Oct. – March 2014 Projet at the UMR de Génétique Végétale du Moulon (Saclay).
Analysis of the relations between the phenotype and the genotype on yeast organisms, combining genomic, proteomic and metabolic data.
Supervised by Christine Dillmann and Sylvie Huet.
- Apr. – Jul. 2013 Internship at the International Institute for Climate and Society (IRI) at Columbia University (New York).
Construction and Study of a Multi-Model Framework For Short Term Predictions of a Malaria Epidemic in the Region of Kericho, Kenya.
Supervised by Rémi Cousin and Daniel Ruiz Carrascal.
- Oct. – Dec. 2012 Project at the CMAP (École Polytechnique).
How to control the Chikungunya epidemic in La Réunion ?
Supervised by Stéphane Gaubert.
- Oct. 2011 – June 2012 Project at the CMAP (École Polytechnique).
Modeling the development of terrorists groups.
Supervised by Amandine Veber.

Work Experience

- Summer 2012 Internship in the Russian firm *Intech-NSK* in Novosibirsk, specialized in telecommunications.
- Oct. 2010 – May 2011 Internship in the French association "*l'Enfant @ l'Hôpital*" (Children in Hospital).
I helped children who were in French hospitals for a long stint to write to globe-trotters. I was also webmaster of the association's website.

Skills

- Languages* French (Mother Tongue)
Fluent English (TOEFL-iBT : 107/120)
Functional Russian and Spanish
- Computer skills* R, Julia, Matlab, Scilab, Bocop, FreeFem++, Maple
Notions in C++

Extracurricular activities

Fine arts and History of Sciences. Published article :
Paul Bastide & Treyvis David : "*Discours de réception d'Édouard Estaunié à l'Académie française : définitions croisées de la persona d'un académicien scientifique*"
ISSN 1913-536X ÉPISTÉMOCRITIQUE - Volume 14 – Automne 2014 - Greffes, available at:
<http://www.epistemocritique.org/spip.php?article390>.

Long-distance hiking.