

CURRICULUM VITAE – FÉLIX BALAZARD

PERSONAL INFORMATION

Félix Balazard
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After a high-level education in probability theory, I chose to do a PhD in statistics applied to epidemiology. I made this choice in order for my work to have **impact on healthcare**. This was made possible thanks to the **transdisciplinary training** (mathematics and biology) I received in **École Normale Supérieure (ENS)**. My main academic interests are personalized medicine, genomics, epidemiology, statistical learning and statistics. I have experience in **leadership** as the president of Doc'Up, the association of PhD candidates of Sorbonne Universités.

RESEARCH

From September 2014 to today, I have been a **PhD candidate** supervised by Gérard Biau (Statistics professor at Université Pierre et Marie Curie, UPMC) and Pierre Bougnères (MD, Research director at INSERM) in statistics applied to epidemiology. Using data from a large case-control study, I have been trying to identify the genetic and environmental causes of type 1 diabetes. This has led to methodological developments.

PUBLICATION

[Association of environmental markers with childhood type 1 diabetes mellitus revealed by a long questionnaire on early life exposures and lifestyle in a case-control study](#) F. Balazard, S. Le Fur, S. Valtat, A.-J. Valleron, P. Bougnères, Isis-Diab collaborative group, BMC public health, (2016)

PREPRINTS

[Interactions and collider bias in gene-environment case-only data](#) F. Balazard, S. Le Fur, S. Valtat, P. Bougnères, A. J. Valleron, Isis-Diab collaborative group, Biorxiv, (2017)

[Asymptotic equivalence of paired Hotelling test and conditional logistic regression](#) F. Balazard, Arxiv, (2016)

[Haplotype based genetic risk estimation for complex diseases](#) F. Balazard, PeerJ preprints (2016)

PRESENTATIONS

Talks :

- Journée De Statistiques (2016 and 2017)
- Stat et Génomes seminar at Agroparis (2015)
- Seminar of the PhD candidates of the statistics lab in UPMC

Posters :

- International Genetic Epidemiology Society meeting (2017)
- Data Science Summer School (2017)
- European Society of Pediatric Endocrinology meeting (2016)
- Statistical models for post-genomic data (2016)
- GRC Quantitative genomics (2015)

EDITORIAL ACTIVITY Reviewer for Vaccine, Transactions on Modeling and Computer Simulation and the International Statistical Review

TEACHING 2018 (planned): Lecture and practical of statistics at Polytech Paris.

2016: **Deep learning** practical at Institut du Calcul et Science des Données ICSD summer school. Supervision of bachelor projects on style transfer (2017).

2014-2017: Teaching assistant in linear models and inferential statistics at Institut de Statistique de l'Université de Paris, power series and parametric integrals in 2nd year of mathematics at UPMC, statistics at Polytech.

2012-2013: Mentor at TALENS (mentoring program at ENS).

2012: Volunteer in GENEPI (lessons for prisoners).

EDUCATION 2016: **Diploma of the ENS** with a major in mathematics and a minor in biology.

2014: **Master of probability and random models at UPMC** with highest honors. [Master's dissertation](#) on branching random walks in random environment supervised by Nobuo Yoshida at **Nagoya university** (3 month stay).

2012-2013: **Bachelor and 1st year of master in mathematics** at ENS with honors

2011-2015: **Student civil servant intern at ENS.**

2011: Ranks at the concours des Grandes Écoles:

- 68th at the concours MPI of ENS,
- 23rd at the concours MPI of ENS Lyon,
- 40th at the concours MPI of ENS Cachan,
- 41st at the concours MP option SI of the École Polytechnique,
- 29th at the concours des Mines.

2009-2011: **Preparatory school MPSI-MP*** at lycée Michel Montaigne in Bordeaux.

2009: **Baccalauréat option internationale américain** (2009) with highest honors.

CODING SKILLS	I am proficient in R and with the Unix Shell. I have experience with Python for data science. Examples of code can be seen in my github .
POPULAR SCIENCE	I disseminate scientific knowledge through a blog . I have recently published an article in French on Mendelian Randomization in La Nouvelle Revue , a generalist publication.
COMMUNITY INVOLVEMENT	2017: President of Doc'Up , the association of PhD candidates of Sorbonne Universités. 2016: Treasurer of Doc'Up.
LANGUAGE SKILLS	French: Native tongue. English: Fluent. Spanish, Japanese: High-school level.