

Virginie Stanislas | PhD student

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Education

- 2014–2017 **PhD Candidate in Statistical Genetics**
University of Paris-Saclay - Laboratory for Mathematic and Modeling, Évry - France
Thesis Topic: "Statistical approaches to detect epistasis in Genome Wide Association Studies"
Supervisors: Christophe Ambroise and Cyril Dalmasso (University of Évry)
Defense date: December 18th, 2017
- 2012–2014 **Master of Science (MSc) in Statistics equivalent (Diplôme d'ingénieur)**
ENSAI - National School for Statistics and Information Analysis, Rennes - France
Specialization: Biostatistics
- 2013–2014 **Master of Science in Modelisation in Clinical Pharmacology and Epidemiology**
University of Rennes 1 and ENSAI (joint degree), Rennes - France
Specialization: Epidemiology, Additional education focused on scientific research

Experience

- 2016 **Invitation to visit the Applied Statistics Group**
2 months *Mathematical Institute of the Heinrich Heine University, Dusseldorf - Germany.*
- 2014 **Internship in Statistical Genetics (Master thesis)**
6 months *LaMME - Laboratory for Mathematics and Modeling, Évry - France*
High dimensional regression and block epistasis in GWAS: application to ankylosing spondylitis.
Supervisors: Christophe Ambroise and Cyril Dalmasso.
- 2013 **Internship in Epidemiology**
3 months *INSPQ - National Public Health Institute of Quebec, Montréal - Canada*
Time series analysis on relationship between temperature and the number of daily birth in urban Montreal. Supervisor: Nathalie Auger.
- 2012 **Erasmus Student Exchange Program**
6 months *Catholic University of Louvain, Louvain la Neuve - Belgium*
Master in Population and Development Studies, Specialization: Demography
- 2011 **Internship Sensory Analysis Research Assistant**
3 months *Eurofins Marketing Research, Bouc Bel Air - France*

Research activities

- Publications in journals with referees.....
- [1]Stanislas V, Dalmasso C, Ambroise C. Eigen-Epistasis for Detecting Gene-Gene Interactions. BMC Bioinformatics. 2017 Jan;18(1):54. Available from: <https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-017-1488-0>.
- [2]Benmarhnia T, Auger N, Stanislas V, Lo E, Kaufman JS. The Relationship Between Apparent Temperature and Daily Number of Live Births in Montreal. Maternal and Child Health Journal. 2015;19(12):2548–2551. Available from: <http://dx.doi.org/10.1007/s10995-015-1794-y>.

Presentations.....

- Jul. 2017 **38th Annual Conference of the International Society for Clinical Biostatistics (ISCB)**, Vigo - Spain
"Detecting interactions in GWAS with the Gene-Gene Eigen-Epistasis approach"
- Jun. 2016 **Open Days in Biology, Computer Science and Mathematics (JOBIM)**, Lyon
"Eigen-Epistasis for detecting Gene-Gene interactions in GWAS"
- Jun. 2016 **48th Days of Statistics - French Society of Statistics (SFdS)**, Montpellier
"Eigen-Epistasis for detecting Gene-Gene interactions in GWAS"
- Sep. 2015 **Seminar, Statistics Mathematics and Applications**, Fréjus
"Searching gene-gene interactions in GWAS using a Group Lasso approach"
- Jun. 2014 **46th Days of Statistics - French Society of Statistics (SFdS)**, Rennes
"Utilization and evaluation of the concordance of several clustering methods in a clinical dataset of two rare diseases"

Poster.....

- Jan. 2017 **SMPGD 2017 - Statistical Methods for Post Genomic Data**, London - England
"Detecting interactions in GWAS with the Gene-Gene Eigen-Epistasis approach"
- Mar. 2016 **DAGStat 2016 - Statistics under one umbrella**, Gottingen - Germany
"Eigen-Epistasis for detecting Gene-Gene interactions in GWAS"
- Nov. 2015 **Statistical Analysis of Massive Genomic Data**, Évry
"Detecting gene-gene interactions in GWAS using a Group Lasso approach"

Software.....

- Jan. 2016 **Package GGEE**, This package implements the group lasso Gene-Gene Eigen Epistasis (G-GEE) method for detecting epistasis at the gene level. <https://github.com/vstanislas/GGEE>

Teaching

	Course	Level	TD
2014–2015	<ul style="list-style-type: none">○ Statistics and probabilities○ Real analysis	<ul style="list-style-type: none">○ L2 Biology○ L1 Mathematics and economy	<ul style="list-style-type: none">○ 25h○ 39h

Languages

French: Native

English: B2 level

Spanish: A2 level

Computer skills

Statistical software: SAS, R

Office software: Microsoft office, LaTeX

Languages: C++, java

Extracurricular activities

Member of the ENSAI Business Networking Forum Team (2012 - 2013)