# Virginie Stanislas | PhD student

### **Education**

2014-current	PhD Candidate in Statistical Genetics		
	University of Paris-Saclay - Laboratory for Mathematic and Modeling, Évry - France Thesis Topic: "High dimensional regression and Gene-Gene interactions in GWAS: application to ankylosing spondylitis"		
	Supervisors: Christophe Ambroise and Cyril Dalmasso (Univeristy of Évry)		
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 Epic			
	University of Rennes 1 and ENSAI (joint degree), Rennes - France		
	Specialization: Epidemiology, Additional education focused on scientific research		
Spring 2012	pring 2012 Erasmus Student Exchange Program		
	Catholic University of Louvain, Louvain la Neuve - Belgium		
	Master in Population and Development Studies, Specialization: Demography		
2011–2012	First year of Master (MSc) in Mathematics Applied to Social Sciences University of Aix-Marseille, Marseille - France		
2008–2011	Bachelor of Science (BSc) in Mathematics Applied to Social Sciences University of Aix-Marseille, Aix-en-Provence - France		

### **Experience**

### 2014 Internship in Statistical Genetics (Master thesis)

Apr. - Sep. LaMME - Laboratory for Mathematics and Modeling, Évry - France
High dimensional regression and block epistasis in GWAS: application to ankylosing spondylitis
Detailed achievements:

- Reviewed available literature in English;
- Simulation studies and programming with R;
- Analysed of GWAS data;
- Used of penalysed regression methods.

### 2013 Internship in Epidemiology

Jun. - Aug. 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.

Detailed achievements:

- Reviewed available literature in English;
- Applied the statistical methods found (Distributed Lag Non-linear Models) with R and SAS;
- Advised the team of the appropriate use of this method.

### 2011 Internship Sensory Analysis Research Assistant

Feb. - Apr. Eurofins Marketing Research, Bouc Bel Air - France

## Research activities

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Presentation	ons				
Jun. 2016	Open Days in Biology, Computer Science and Mathematics (JOBIM), Lyon "Eigen-Epistasis for detecting Gene-Gene interactions in GWAS"				
Jun. 2016	<b>48th Days of Statistics - French Society of Statistics (SFdS)</b> , 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 clinica dataset of two rare diseases"				
Poster					
Mar. 2016	DAGStat 2016 - Statistics under one umbrella, Gottingen - Germany "Eigen-Epistasis for detecting Gene-Gene interactions in GWAS"				
Nov. 2015	5 Statistical Analysis of Massive Genomic Data, Évry				
	"Detecting gene-gene interactio	ns in GWAS using a Group Lasso appr	oach"		
Invitation					
Aug. 2016	Invitation to visit the Applied Statistics Group, Mathematical Institute of the Heinrich Heine University, Dusseldorf - Germany				
Mar. 2016	<b>Invitation to visit the Applied Statistics Group</b> , Mathematical Institute of the Heinrich Heine University, Dusseldorf - Germany				
Publication	IS				
		igen-Epistasis for detecting Gene-Ger /hal.archives-ouvertes.fr/hal-(			
Temperatur	e and Daily Number of Live Birt	E, Kaufman JS. The Relationship Bet hs in Montreal. Maternal and Child I p://dx.doi.org/10.1007/s10995-	Health Journal.		
Software					
Jan. 2016					
Teaching	g				
	Course	Level	TD		
2014–2015	<ul><li>Statistics and probabilities</li><li>Real analysis</li></ul>	<ul><li>L2 Biology</li><li>L1 Mathematics and economy</li></ul>	<ul><li>25h</li><li>39h</li></ul>		

### **Formation**

#### Conferences.... Jun. 2015 46th Days of Statistics - French Society of Statistics (SFdS), Lille Feb. 2015 SMPGD - Workshop on Statistical Methods for Post-Genomic Data, 12h Munich - Germany Courses..... Sep. 2015 Summer School, Statistics Mathematics and Applications, Fréjus 6h Jul. 2015 Summer Institute in Statistical Genetics, Seattle - USA 60h English intensive internship, Évry May 2015 40h Jan. 2015 **Teacher training**, Évry 36h

### Languages

French: Native
English: B2 level

CEFRL (TOEIC 880/990, Jan. 2013)

Spanish: A2 level

### **Computer skills**

Statistical software: SAS, R

Office software: Microsoft office, LaTeX

**Languages**: C++, java

### **Extracurricular activities and interests**

- o Extracurricular activities: Member of the ENSAI Business Networking Forum Team (2012 2013)
- Sports: Running, swimming
- o Traveling: Turkey, Norway, Netherlands, United States, Mexico, Eastern Europe