

Geneviève Robin

PhD candidate at *École Polytechnique*

Work Experience

- Sept. 2016 **PhD candidate**, *École Polytechnique*, Palaiseau, France.
present Statistics, Machine learning
- Sept. 2018 **Teaching Assistant**, *École Polytechnique - HEC*, Palaiseau, France.
present Statistics
- Feb. 2018 **Visiting Student Researcher**, *Stanford University*, Stanford, CA, USA.
July 2018 Estimation of main effects and interactions in mixed and incomplete data
- Sept. 2016 **Teaching Assistant**, *École Polytechnique*, Palaiseau, France.
June 2017 Statistics with R
- Apr. 2016 **Research internship**, *AgroParisTech*, Paris, France.
Sept. 2016 Inference of sparse latent variable graphical models and applications to ecological data
- Apr. 2015 **Research internship**, *University of California*, Berkeley, CA, USA.
Aug. 2015 Dimensionality reduction for clustering single-cell RNA-sequencing data
- Sept. 2012 **Specialized educator & teacher**, *Fondation Apprentis d'Auteuil*, Chartres, France.
Mar. 2013 Support of teenagers with behavior and learning issues

Education

- 2015 **MSc. Machine Learning, Computer Vision, Mathematics**, *École Normale Supérieure de Cachan*,
2016 *France*, graduated with highest honors.
- 2012 **Diplôme d'Ingénieur**, *École Polytechnique*, Paris, France.
- 2015
 - o MSc. Innovation and Technology - Big Data
 - o BS. Computer Science, Applied Maths, Physics

Publications & preprints

- 2018 **Low-rank interaction and sparse additive effects model for large data frames**, *NIPS 2018*.
- 2018 **Main effects and interactions in mixed and incomplete data frames**, *submitted*.
- 2018 **Imputation of mixed data with multilevel SVD**, *submitted*.
- 2018 **Low-rank model with covariates for count data analysis**, *submitted*.
- 2018 **Incomplete graphical model inference via latent tree aggregation**, 2018, *Statistical Modelling*.

Talks

- May. 29. 2018 **50èmes Journées de Statistique**, *EDF Lab Paris Saclay*, Palaiseau, France.
Main effects and interactions in mixed and incomplete data frames
- Jul. 25. 2017 **European Meeting of Statisticians**, Helsinki, Finland.
Low-rank interaction contingency tables
- Jul. 18. 2017 **New Challenges in Applied Mathematics**, *Sharif University*, Tehran, Iran.
Low-rank interaction contingency tables
- Jan. 13. 2017 **Statistical Methods for Post-Genomic Data**, *Imperial College London*, London, UK.
Graphical model inference with unobserved variables via latent tree aggregation

Awards

- 2018 **Student award**, *Conference on Neural Information Processing Systems 2018*.
- 2018 **Student award**, *Conference of the Eastern Mediterranean Region of the International Biometric Society (EMR-IBS) 2018*.
- 2017-2018 **Visiting Student Researcher Fellowship**, *France-Stanford Center for Interdisciplinary Studies*.

Skills

- Programming R (package development), matlab, python
- Languages French (native), English (fluent), German (intermediate), Arabic (beginner)

Associative commitment

- 2018 **French lessons for newly arrived asylum seekers**, *Solidarités Saint Bernard*.
- 2018 **Organization of the Young Statisticians and Probabilists seminar**, *Société Française de Statistique*.