

# Geneviève Robin

## Curriculum Vitae

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### Professional experience

- Oct. 2019 - **Post-doctoral position**, *École des Ponts ParisTech, INRIA*, Marne la Vallée, France.
- 2018 **Visiting Student Researcher**, *Stanford University*, Stanford, CA, États-Unis.
- 2016 - 2019 **PhD candidate**, *École Polytechnique*, Palaiseau, France.  
Statistics, Machine learning
- 2016 **Research intern**, *AgroParisTech*, Paris, France.
- 2015 **Research intern**, *University of California*, Berkeley, CA, États-Unis.
- 2012 - 2013 **Civil service**, *Fondation Apprentis d'Auteuil*, Chartres, France.

### Teaching

- Jan 2020 - **Teaching**, *ESSEC Business School*, Cergy, France.  
Statistics (Lectures, TD and TP at L3 level)
- 2018 - 2019 **Teaching Assistant**, *École Polytechnique - HEC*, Palaiseau, France.  
Machine learning, Statistics (TD and TP at M1 level)
- 2017 - 2018 **Teaching Assistant**, *École Polytechnique - HEC*, Palaiseau, France.  
Statistics with R, Introduction to R (TD and TP at M1 level)
- 2016 - 2017 **Teaching Assistant**, *Télécom ParisTech - École Polytechnique*, Paris, France.  
Statistics with R, Introduction to Machine learning (TD and TP at M1 and M2 level)

### Education

- 2015 - 2016 **MSc. Mathematics, Vision, Learning (highest honors)**, *ENS de Cachan*, France.
- 2012 - 2015 **Diplôme d'Ingénieur**, *École Polytechnique*, Palaiseau, France.
- 2010 - 2012 **Classe préparatoire aux Grandes Écoles**, *Lycée Louis-le-Grand*, Paris, France.
- 2010 **Baccalauréat scientifique (highest honors)**, *Lycée Louis-le-Grand*, Paris, France.

### Publications

- 2019 **Link prediction in the Stochastic Block Model with outliers**, *submitted*, S. Gaucher, O. Klopp, G. Robin.
- 2019 **Imputation of mixed data with multilevel SVD**, *Journal of Computational and Graphical Statistics*, F. Husson, J. Josse, B. Narasimhan, G. Robin.
- 2019 **Main effects and interactions in mixed and incomplete data frames**, *Journal of the American Statistical Association*, G. Robin, O. Klopp, J. Josse, É. Moulines, R. Tibshirani.
- 2019 **Low-rank model with covariates for count data analysis**, *Journal of Multivariate Analysis*, G. Robin, J. Josse, É. Moulines, S. Sardy.
- 2018 **Low-rank interaction and sparse additive effects model for large data frames**, *Advances in Neural Information Processing Systems 31*, G. Robin, H.-T. Wai, J. Josse, O. Klopp, É. Moulines.
- 2018 **Incomplete graphical model inference via latent tree aggregation**, *Statistical Modelling*, G. Robin, C. Ambroise, .

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## Talks and posters in conferences

- Jun 2019 **51èmes Journées de Statistique**, *Université de Lorraine*, Nancy, France, *contributed talk*.
- Dec 2018 **Jerusalem Joint Statistical Event (EMR-IBS)**, Jerusalem, Israël, *contributed talk*.
- Dec 2018 **Advances in Neural Information Processing Systems 31**, Montréal, Canada, *spotlight talk*.
- May 2018 **50èmes Journées de Statistique**, *EDF Lab Paris Saclay*, Palaiseau, France, *contributed talk*.
- Dec 2017 **Algorithmic Challenges in Protecting Privacy for Biomedical Data**, *UCLA*, Los Angeles, USA, *poster*.
- Jul 2017 **European Meeting of Statisticians**, *University of Helsinki*, Helsinki, Finland, *contributed talk*.
- Jul 2017 **New Challenges in Applied Mathematics**, *Sharif University*, Tehran, Iran, *talk*.
- Jan 2017 **Statistical Methods for Post-Genomic Data**, *Imperial College London*, London, GB, *contributed talk*.

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## Talks in seminars

- Feb 2020 **Séminaire de Statistiques**, *Laboratoire de l'Informatique et du Parallélisme*, ENS Lyon, Lyon, France.
- Jan 2020 **Séminaire de Probabilités et Statistiques**, *Département de Mathématiques d'Orsay*, Orsay, France.
- Jan 2020 **AMA team seminar**, *Laboratoire d'Informatique de Grenoble*, Grenoble, France.
- Jan 2020 **Statistics seminar**, *Institut de Mathématiques de Toulouse*, Toulouse, France.
- Nov 2019 **Complex systems seminar**, *Centre d'Analyse et de Mathématiques Sociales*, EHESS, Paris, France.
- Oct 2019 **IACM seminar**, *Foundation for Research and Technology-Hellas*, Heraklion, Greece.
- Feb. 2019 **Rencontres Modélisation Mathématique et Biodiversité**, *École Polytechnique*, Palaiseau, France.
- Feb 2019 **Séminaire de Biostatistiques**, *ISPED*, Université de Bordeaux, Bordeaux, France.
- Nov 2018 **Séminaire de Statistiques**, *MIA*, AgroParisTech, Paris, France.
- Oct 2018 **Journée de rentrée du CMAP**, *CMAP*, École Polytechnique, Palaiseau, France.
- Mai 2018 **Prof. Tibshirani group meeting**, *Stanford University*, Stanford, USA.
- Mai 2018 **Séminaire**, *Tour du Valat*, Le Sambuc, France.
- Avr 2018 **Séminaire des doctorants**, *CMAP*, École Polytechnique, Palaiseau, France.
- Juin 2017 **Séminaire équipe XPOP**, *École Polytechnique*, Palaiseau, France.
- Jan 2017 **Prof. Hastie group meeting**, *Stanford University*, Stanford, USA.

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## Scientific commitment

- 2019 - **Organization of the Labex Bézout working group in Optimization and learning**, *École des Ponts ParisTech*.
- 2019 - **President of the "Young Statisticians" group**, *Société Française de Statistique*.
- 2018 - **Organization of the Young Statisticians and Probabilists Seminar**, *Société Française de Statistique*.

- 2019 - **Conference refereeing**, *Thirty-third Conference on Neural Information Processing Systems (NeurIPS)*, *Asian Conference on Machine Learning (ACML)*, *International Joint Conference on Artificial Intelligence (IJCAI)*, *International Conference on Machine Learning (ICML)*.
- 2018 - **Journal refereeing**, *Statistics and Computing*, *Biometrika*, *Journal de la Société Française de Statistique*.

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## Awards

- 2019 **Prix Jeunes Talents France L'Oréal-UNESCO Pour les Femmes et la Science**, *Fondation L'Oréal*.
- 2018 **Student Award**, *Advances in Neural Information Processing Systems 31*.
- 2018 **Best Student Paper Award**, *Jerusalem Joint Statistical Event (EMR-IBS)*, *Frontier Science Foundation Hellas*.
- 2017 **Student Travel Award**, *Algorithmic Challenges in Protecting Privacy for Biomedical Data*, IPAM, UCLA.
- 2017-2018 **Visiting Student Researcher Fellowship**, *France-Stanford Center for Interdisciplinary Studies*.

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## Software development

- R package `lori`: Imputation of count data using side information
- R package `mimi`: Estimation of main effects and interactions in mixed and incomplete data
- Programming R, Python, Julia, Matlab, C++

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## Languages

- Languages French (native), English (fluent), Arabic (intermediate), German (intermediate)

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## Associative commitment

- 2018-2019 **French lessons for refugees**, *Solidarités Saint Bernard*, Paris, France.
- 2017-2018 **Scientific tutoring for young people newly arrived in France**, *Proximité*, Paris, France.
- 2015-2016 **Animations for young people in centers for asylum seekers**, *Afev*, Paris, France.