Alexandre Lecestre

Resume

━━━ EDUCATION

2019–Present **PhD in Mathematics and Applications**, *University of Luxembourg*.
Supervisor: Yannick Baraud
Subject: Robust estimation in finite mixture models and hidden Markov models.

2019 **Diplôme de l'École Normale Supérieure de Lyon**.

2018 **Master of Science in Mathematics**.
M2 Mathématiques de l'aléatoire - finalité "Probabilités et Statistiques".
Université Paris-Saclay, France.

2016 **Bachelor of Science in Mathematics**.
Université Claude Bernard Lyon 1, France.

2015–2019 **Student at *École Normale Supérieure de Lyon***.
Mathematics department.

2013–2015 **Classes Préparatoires aux Grandes Écoles**.
Lycée Chateaubriand, Rennes, France.

2013 **Baccalauréat Scientifique**.
Lycée Montesquieu, Le Mans, France.

━━━ ACADEMIC EXPERIENCE

From 02/2021 to 01/2023 **PhD Representative**.
I was one of the three PhD representatives that are in charge, among other things, of the organization of the PhD Away Days (see below).

From 03/2019 to 07/2019 **Projet Long de Recherche 2**, *Laboratoire de Mathématiques d'Avignon*.
Supervisor: Edith Gabriel.
Object of Study: Estimation of the conditional intensity of a point process.

From 10/2018 to 02/2019 **Projet Long de Recherche 1**, *Laboratoire J.A. Dieudonné de Nice*.
Supervisor: Yannick Baraud.
Object of Study: ρ-estimation in a dependent framework.

From 04/2018 to 07/2018 **Master thesis**, *UMR MISTEA - INRA Montpellier*.
Supervisor: Nicolas Verzelen.
Object of study: Statistical analysis of inventory data.

6, Avenue de la Fonte – L-4364, Esch-sur-Alzette – Luxembourg
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From 05/2017 to 07/2017	**12 Week Internship**, *Lancaster University*. Supervisor: Paul Fearnhead. Object of Study: Quasi-stationary distributions.
From 05/2016 to 06/2016	**6 Week Internship**, *Institut de Mathématiques de Toulouse*. Supervisor: Jean-Michel Loubes. Object of Study: A convergence theorem with the Wasserstein metric.

PUBLICATIONS AND PREPRINTS

o Robust estimation in finite mixture models, A. Lecestre, arXiv:2107.00587 (2021). submitted to ESAIM

EVENTS ATTENDED

07/2022	**3-Day Meeting of Statisticians in Paris**, *Institut Henri Poincaré, Paris*.
07/2021	**International Conference on Statistics and Related Fields**, *Belval, Luxembourg (online)*.
10/2020	**Workshop on Data Science**, *Belval, Luxembourg*.
09/2019	**StatMathAppli**, *Fréjus, France*.

PRESENTATIONS

08–09/2022	**PhD Away Days – BiLux 2022**, *Milan, Italy*. Talk: "Introduction to statistical hypothesis testing".
08–09/2022	**StatMathAppli**, *Fréjus, France*. Talk: "Robust estimation in finite state space hidden Markov models".
06/2022	**IMS Annual Meeting**, *London, UK*. Talk: "Robust estimation in finite state space hidden Markov models".
06/2022	**ISNPS2022**, *Paphos, Cyprus*. Talk: "Robust estimation in finite state space hidden Markov models".
03/2022	**Statistics team seminar**, *LMO, Orsay, France*. Talk: "Robust estimation in hidden Markov models".
06/2021	**MHC2021 (Mixtures, Hidden Markov Models and Clustering)**, *Orsay, France (online)*. Poster: "Robust estimation in finite Mixture models".
10/2020	**SanDAL Winter School on Mathematical Statistics**, *Belval, Luxembourg (online)*. Talk: "Robust Estimation in Finite Mixture Models".
10/2021	**PhD Away Days**, *Strasbourg, France*. Talk: "Central Limit Theorems".

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03/2021 **PhD Seminar**, *Belval, Luxembourg (online)*.
Talk: Introduction to Robust Statistics

10/2020 **PhD "Away" Days**, *Belval, Luxembourg (online)*.
Talk: "Test Theory".

10/2019 **PhD Away Days**, *Bordeaux, France*.
Talk: "Maximum Likelihood Estimation".

TEACHING EXPERIENCE

2022–2023 **Teaching Assistant**.
Structures mathématiques (1st semester of the BSc in mathematics).

2021–2022 **Teaching Assistant**.
Analysis 1 (1st semester of the BSc in mathematics).

2020–2021 **Teaching Assistant**.
Analysis 1 (1st semester of the BSc in mathematics).

2019–2020 **Teaching Asistant**.
Analysis 2 (2nd semester of the BSc in mathematics).

2019–2020 **Tutoring**.
I took part in the "Math Forge" program of the University of Luxembourg during the winter semester.

2015–2016 **Volunteer Tutoring**.
I assisted a freshman in mathematics.

SKILLS

Languages

French Mother Tongue.
English Fluent (Grade C at the Cambridge Advanced Exam, equivalent to level C1).
Spanish Level B2.

Computer

LaTeX Production of scientific documents and presentations.
R General knowledge including the creation of a package for a master machine learning course.

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