

Luc Lehéricy

Researcher in statistics

Laboratoire J.A. Dieudonné
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Positions

- 2019 – **CNRS researcher**, *Laboratoire J.A. Dieudonné*, Université Côte d'Azur.
2016 – 2019 **Doctorant contractuel (PhD grant)**, *Laboratoire de Mathématiques d'Orsay*, Université Paris-Sud.

Education

- 2016 – 2018 **PhD under the supervision of Élisabeth Gassiat**, LMO, Orsay.
Adaptive estimation for nonparametric hidden Markov models. *Defended on December 14, 2018*
- 2012 – 2016 **École Normale Supérieure**, Paris.
— 2014 – 2015 : M2 Probabilités et Statistiques (Université Paris-Sud) (with highest honors)
— 2012 – 2013 : Mathematics-Physics joint curriculum (FIMFA) : L3 in Mathematics (with high honors) and in Physics (with highest honors)
- 2010 – 2012 **Classes Préparatoires aux Grandes Écoles, Lycée Hoche**, Versailles (Yvelines), MP*.
CPGE are intensive two-year courses preparing to the national competitive exams of the Grandes Écoles, selective higher education institutions educating from L3 to M2. MP and MP* specialize in mathematics and physics, and prepare for engineering and academic careers.
- 2010 **Franco-German baccalaureate, Lycée franco-allemand**, Buc (Yvelines).
with highest honors

Publications and preprints

Preprints

- C. Giraud, Y. Issartel, L. Lehéricy, M. Lerasle "Pair Matching : When bandits meet stochastic block model", arXiv:1905.07342 (2019), submitted
- É. Gassiat, L. Lehéricy, S. Le Corff "Identifiability and consistent estimation of nonparametric translation hidden Markov models with general state space", arXiv:1902.01070 (2019), submitted
- L. Lehéricy "Nonasymptotic control of the MLE for misspecified nonparametric hidden Markov models", arXiv:1807.03997 (2018), submitted

Publications

- L. Lehéricy "State-by-state minimax adaptive estimation for nonparametric hidden Markov models", *JMLR*, 2018.
- L. Lehéricy "Consistent order estimation for nonparametric hidden Markov models", *Bernoulli*, 2019.

Conferences and talks

2019

- sep 2–6 **Statistique Mathématique et Applications**, Fréjus, France.
apr 1–5 **Huitièmes rencontres des jeunes statisticien-ne-s**, Porquerolles, France.
mar 21 **Statistics team seminar**, *LMRS*, Rouen, France.
mar 12 **Statistics team seminar**, *LPSM*, Paris, France.
jan 25 **Young Statisticians and Probabilists**, *IHP*, Paris, France.

2018

- dec 4 **Probability and statistics team seminar**, *Laboratoire J.A. Dieudonné*, Nice, France.
may 28–jun 1 **50èmes Journées de Statistique**, Saclay, France.
may 13–18 **Jeunes Probabilistes et Statisticiens**, Saint Pierre d'Oléron, France.

2017

- jun 15 **Probability and statistics team seminar**, *LMO*, Orsay, France.
may 29–jun 2 **49èmes Journées de Statistique**, Avignon, France.
mar 5–10 **Spring School "Structural Inference" 2017**, Malente, Allemagne.
Poster

Awards

- 2010 **Concours Général in Physics and Chemistry.**
Third place. *The Concours Général is the most prestigious French academic competition for students at the end of high school.*
2010 **Concours Général in Mathematics.**
Second accessit (5th place)

Referee work

Journals

Referee for *Annals of Applied Probability* ($\times 1$), *IEEE Transactions on Information Theory* ($\times 1$).

Conferences

Program committee member of the Junior Conference on Data Science and Engineering 2018 and 2019.

Teaching and scientific outreach

- 2016 – 2019 **Teaching assistant**, *Université Paris-Sud*, Orsay, Seminar management and exam grading.
2017 **PhD students' vulgarisation seminar**, *LMO*, Orsay, France.
2014 – 2018 **Talks at club Parimaths.**
Mathematics club for high school students.
2016 & **Jury member of the TFJM²**, (Tournoi Français des Jeunes Mathématiciennes et
2017 Mathématiciens).
High school student work for several months on partially open problems and present their solutions during regional and national finals
2014 & **Team leader for the TFJM².**
2015

Responsibilities

- 2017 – 2018 **Organizer of the PhD students' popularisation seminar**, *Université Paris-Sud*, Orsay.
With Gabriel Pallier and Pierre Roux
2016 – 2018 **Organizer of the Students' seminar of the M2 Mathématiques de l'Aléatoire**,
Université Paris-Sud, Orsay.
With Sylvain Arlot, Thomas Lehericy and Jeanne Nguyen

Languages

- French Mother tongue
English Fluent
German Good skills

Abitur level