

LUC BROGAT-MOTTE

Postdoctoral researcher in machine learning ◊ luc.brogat.motte@gmail.com

EDUCATION

- ENS Paris-Saclay** 2018-2019
M.S. MVA Mathématiques, vision, apprentissage.
With honours 16.8/20.
- Télécom Paris, Engineering School** 2016-2019
Machine learning.
Probability theory, statistics, scientific computing.
GPA : 3.98 / 4.
- Lycée Marcelin Berthelot, CPGE MPSI/MP*** 2013-2016
Preparatory classes : undergraduate intensive course in mathematics and physics.

EXPERIENCE

- Postdoc on estimation of controlled stochastic differential equations** 2023-
Supervised by Riccardo Bonalli (L2S, CentraleSupélec), and Alessandro Rudi (SIERRA team, INRIA Paris).
- PhD in Mathematics and Computer Science, Télécom Paris** 2019-2023
Key areas: statistical learning theory, kernel methods, optimal transport.
Award: 2nd best thesis of IP Paris's computer science department (2024).
- Reviewer for international machine learning journals and conferences** 2019-
JMLR, SIAM Journal on Mathematics of Data Science (SIMODS), AISTATS, ECML PKDD.
- Teaching assistant, Télécom Paris** 2019-2023
Teaching tutorials and creating original practical sessions in statistics and machine learning.
- Master research intern, Télécom Paris and Aalto University** April - Sept. 2019
Learning output representations in structured prediction with application to molecule prediction problems.
- Digital Technician at National Institute of Integrative Medicine, Melbourne** July 2017
Web development, computer graphics, and hardware installation.

PUBLICATIONS

- Learning Controlled Stochastic Differential Equations.** (Preprint)
Luc Brogat-Motte, Riccardo Bonalli, Alessandro Rudi.
- Structured Prediction with Loss Regularization under Output Regularity Assumptions.** (Preprint)
Luc Brogat-Motte, Florence d'Alché-Buc.
- Sketch In, Sketch Out: Accelerating both Learning and Inference for Structured Prediction with Kernels.** (AISTATS 2024)
Tamim El Ahmad, Luc Brogat-Motte, Pierre Laforgue, Florence d'Alché-Buc.
- Learning to predict graphs with fused Gromov-Wasserstein barycenters.** (ICML 2022)
Luc Brogat-Motte, Rémi Flamary, Céline Brouard, Juho Rousu, Florence d'Alché-Buc.
- Vector-valued least-squares regression under output regularity assumptions.** (JMLR 2022)
Luc Brogat-Motte, Alessandro Rudi, Céline Brouard, Juho Rousu, Florence d'Alché-Buc.
- Duality in RKHSs with infinite dimensional outputs: Application to robust.** (ICML 2020)
Pierre Laforgue, Alex Lambert, Luc Brogat-Motte, Florence d'Alché-Buc.

LANGUAGES AND SKILLS

Computer Languages Languages

Advanced: Python, Latex; Proficient: C, Java, HTML, CSS, PHP, SQL, Javascript
French (native), english (fluent), spanish (basics)