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.

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