

Tamim El Ahmad
PhD · Machine Learning
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Research Experience

UNIVERSITY OF EDINBURGH <i>Postdoctoral researcher (Sup. A. Teckentrup)</i>	Jan. 2025 – Present <i>Edinburgh, United Kingdom</i>
• RESEARCH TOPICS: Gaussian Processes, Partial Differential Equations	
TÉLÉCOM PARIS <i>PhD in Machine Learning (Sup. F. d'Alché-Buc, P. Laforgue)</i>	Jan. 2021 – Jul. 2024 <i>Paris, France</i>
• TITLE: Learning Deep Kernel Networks: Application to Efficient and Robust Structured Prediction	
• RESEARCH TOPICS: Kernel Methods, Random Projections, Structured Prediction, Neural Networks	

Other Experience

TÉLÉCOM PARIS <i>Research Engineer in a joint project with Valéo</i>	Oct. 2020 – Jan. 2021 <i>Paris, France</i>
• Research and development for unsupervised anomaly detection (One-Class SVM, Isolation Forest, Data Depth)	
• Development of an unsupervised anomaly detection library (Python)	
TÉLÉCOM PARIS <i>Research Intern</i>	May 2020 – Sep. 2020 <i>Paris, France</i>
• Research and development for structured prediction: hybrid architecture based on kernel methods and neural networks (PyTorch)	
MÉDICIS <i>Computer Science Intern</i>	Jun. 2019 – Aug. 2019 <i>Paris, France</i>
• Development of a NoSQL data entry server (MongoDB)	
SANOFI <i>Computer Science Intern</i>	Jun. 2018 – Aug. 2018 <i>Paris, France</i>
• Research and development of a deep learning model for automatic recognition of IC-50 curves (Keras, Knime)	

Education

ÉCOLE NORMALE SUPÉRIEURE PARIS-SACLAY <i>Master's degree MVA - Machine Learning and Computer Vision</i>	Sep. 2019 – Sep. 2020 <i>Paris, France</i>
ÉCOLE DES MINES DE SAINT-ÉTIENNE <i>Engineering Degree - Computer and Data Science</i>	Sep. 2016 – Sep. 2020 <i>Saint-Étienne, France</i>
UNIVERSITÉ PARIS-DIDEROT <i>Academic gap year in Master 1 - Applied Mathematics</i>	Sep. 2018 – Sep. 2019 <i>Paris, France</i>

UNIVERSIDAD DE BUENOS AIRES
Exchange Program - Computer and Data Science

Aug. 2017 – Dec. 2017
Buenos Aires, Argentina

UNIVERSITÉ JEAN MONNET
Bachelor's degree - Mathematics

Sep. 2016 – Sep. 2017
Saint-Étienne, France

Academic Duties

Teaching Assistant <i>Télécom Paris</i>	Jan. 2021 – Jun. 2024 <i>Paris, France</i>
• Tutorials: Statistics, Convex Optimisation	
• Practical Sessions: Statistics, Convex Optimisation, Kernel Methods, Introduction to Machine Learning, Structured Prediction	
Reviewer <i>AISTATS, ICML, JMLR, TPAMI</i>	Jun. 2022 – Present
Talks <i>Alan Turing Institute, DataSig team (Online, May 23)</i> <i>Conférence sur l'Apprentissage automatique (Strasbourg, Jul. 23)</i> <i>Journées de Statistique (Bordeaux, May 24)</i> <i>Conférence sur l'Apprentissage automatique (Lille, Jul. 24)</i> <i>KAIST AI, OSI Lab (Seoul, Jul. 24)</i> <i>Yonsei University (Seoul, Jul. 24)</i> <i>ECML PKDD (Vilnius, Sep. 24)</i> <i>Prob_AI Hub seminar (Online, Jan. 25)</i> <i>Numerical Mathematics and Data Science seminar (Edinburgh, Jan. 25)</i>	May 2023 – Present

Publications

Deep Sketched Output Kernel Regression for Structured Prediction (ECML PKDD 2024).
T. El Ahmad*, J. Yang*, P. Laforgue, F. d'Alché-Buc.

Sketch In, Sketch Out: Accelerating both Learning and Inference for Structured Prediction with Kernels (AISTATS 2024).
T. El Ahmad, L. Brogat-Motte, P. Laforgue, F. d'Alché-Buc.

Fast Kernel Methods for Generic Lipschitz Losses via p -Sparsified Sketches (TMLR 2023).
T. El Ahmad, P. Laforgue, F. d'Alché-Buc.

Other Interests

Musical education and Guitar: 10 years, National school of music Marcel Dadi in Créteil
Sport: Fencing (8 years of practice), Football, Swimming