

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, TMLR</i>	Jun. 2022 – Present
Talks <i>Alan Turing Institute, DataSig team (Online, May 23) Conférence sur l'Apprentissage automatique (Strasbourg, Jul. 23) Journées de Statistique (Bordeaux, May 24) Conférence sur l'Apprentissage automatique (Lille, Jul. 24) KAIST AI, OSI Lab (Seoul, Jul. 24) Yonsei University (Seoul, Jul. 24) ECML PKDD (Vilnius, Sep. 24) Prob_AI Hub seminar (Online, Jan. 25) Numerical Mathematics and Data Science seminar (Edinburgh, Jan. 25) the Biennial Numerical Analysis Conference (Glasgow, Jun. 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