

Tamim El Ahmad

PhD · Machine Learning

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Research Experience

UNIVERSITY OF EDINBURGH

Postdoctoral researcher (Sup. A. Teckentrup)

- RESEARCH TOPICS: Gaussian Processes, Partial Differential Equations

Jan. 2025 – Present

Edinburgh, United Kingdom

TÉLÉCOM PARIS

PhD in Machine Learning (Sup. F. d'Alché-Buc, P. Laforgue)

- TITLE: Learning Deep Kernel Networks: Application to Efficient and Robust Structured Prediction
- RESEARCH TOPICS: Kernel Methods, Random Projections, Structured Prediction, Neural Networks

Jan. 2021 – Jul. 2024

Paris, France

Other Experience

TÉLÉCOM PARIS

Research Engineer in a joint project with Valéo

- Research and development for unsupervised anomaly detection (One-Class SVM, Isolation Forest, Data Depth)
- Development of an unsupervised anomaly detection library (Python)

Oct. 2020 – Jan. 2021

Paris, France

TÉLÉCOM PARIS

Research Intern

- Research and development for structured prediction: hybrid architecture based on kernel methods and neural networks (PyTorch)

May 2020 – Sep. 2020

Paris, France

MÉDICIS

Computer Science Intern

- Development of a NoSQL data entry server (MongoDB)

Jun. 2019 – Aug. 2019

Paris, France

SANOFI

Computer Science Intern

- Research and development of a deep learning model for automatic recognition of IC-50 curves (Keras, Knime)

Jun. 2018 – Aug. 2018

Paris, France

Education

ÉCOLE NORMALE SUPÉRIEURE PARIS-SACLAY

Master's degree MVA - Machine Learning and Computer Vision

Sep. 2019 – Sep. 2020

Paris, France

ÉCOLE DES MINES DE SAINT-ÉTIENNE

Engineering Degree - Computer and Data Science

Sep. 2016 – Sep. 2020

Saint-Étienne, France

UNIVERSITÉ PARIS-DIDEROT

Academic gap year in Master 1 - Applied Mathematics

Sep. 2018 – Sep. 2019

Paris, France

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

Jan. 2021 – Jun. 2024

Télécom Paris

Paris, France

- Tutorials: Statistics, Convex Optimisation
- Practical Sessions: Statistics, Convex Optimisation, Kernel Methods, Introduction to Machine Learning, Structured Prediction

Reviewer

Jun. 2022 – Present

AISTATS, ICML, JMLR, TPAMI, TMLR

Talks

May 2023 – Present

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)

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