

Tamim El Ahmad

PhD · Machine Learning

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Education

TÉLÉCOM PARIS

Jan. 2021 – Jul. 2024

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

Paris, France

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

ÉCOLE NORMALE SUPÉRIEURE PARIS-SACLAY

Sep. 2019 – Sep. 2020

Master's degree MVA - Machine Learning and Computer Vision

Paris, France

ÉCOLE DES MINES DE SAINT-ÉTIENNE

Sep. 2016 – Sep. 2020

Engineering Degree - Computer and Data Science

Saint-Étienne, France

UNIVERSITÉ PARIS-DIDEROT

Sep. 2018 – Sep. 2019

Academic gap year in Master 1 - Applied Mathematics

Paris, France

UNIVERSIDAD DE BUENOS AIRES

Aug. 2017 – Dec. 2017

Exchange Program - Computer and Data Science

Buenos Aires, Argentina

UNIVERSITÉ JEAN MONNET

Sep. 2016 – Sep. 2017

Bachelor's degree - Mathematics

Saint-Étienne, France

Experience

TÉLÉCOM PARIS

Oct. 2020 – Jan. 2021

Research Engineer in a joint project with Valéo

Paris, France

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

TÉLÉCOM PARIS

May 2020 – Sep. 2020

Research Intern

Paris, France

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

MÉDICIS

Jun. 2019 – Aug. 2019

Computer Science Intern

Paris, France

- Development of a NoSQL data entry server (MongoDB)

SANOFI

Jun. 2018 – Aug. 2018

Computer Science Intern

Paris, France

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

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, JMLR, TPAMI

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)

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