

Tamim El Ahmad
PhD Student · Machine Learning
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Education

TÉLÉCOM PARIS <i>PhD in Machine Learning (Sup. F. d'Alché-Buc, P. Laforgue)</i> <ul style="list-style-type: none">• TITLE: Learning Deep Kernel Networks: Application to Efficient and Robust Structured Prediction• RESEARCH TOPICS: Kernel Methods, Random Projections, Structured Prediction, Neural Networks	Jan. 2021 – Present Paris, France
ÉCOLE NORMALE SUPÉRIEURE PARIS-SACLAY <i>Master's degree MVA - Machine Learning and Computer Vision</i>	Sep. 2019 – Sep. 2020 Paris, France
ÉCOLE DES MINES DE SAINT-ÉTIENNE <i>Engineering Degree - Computer and Data Science</i>	Sep. 2016 – Sep. 2020 Saint-Étienne, France
UNIVERSITÉ PARIS-DIDEROT <i>Academic gap year in Master 1 - Applied Mathematics</i>	Sep. 2018 – Sep. 2019 Paris, France
UNIVERSIDAD DE BUENOS AIRES <i>Exchange Program - Computer and Data Science</i>	Aug. 2017 – Dec. 2017 Buenos Aires, Argentina
UNIVERSITÉ JEAN MONNET <i>Bachelor's degree - Mathematics</i>	Sep. 2016 – Sep. 2017 Saint-Étienne, France

Experience

TÉLÉCOM PARIS <i>Research Engineer in a joint project with Valéo</i> <ul style="list-style-type: none">• 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. 2020 Paris, France
TÉLÉCOM PARIS <i>Research Intern</i> <ul style="list-style-type: none">• Research and development for structured prediction: hybrid architecture based on kernel methods and neural networks (PyTorch)	May 2020 – Sep. 2020 Paris, France
MÉDICIS <i>Computer Science Intern</i> <ul style="list-style-type: none">• Development of a NoSQL data entry server (MongoDB)	Jun. 2019 – Aug. 2019 Paris, France
SANOFI <i>Computer Science Intern</i> <ul style="list-style-type: none">• Research and development of a deep learning model for automatic recognition of IC-50 curves (Keras, Knnime)	Jun. 2018 – Aug. 2018 Paris, France

Academic Duties

Teaching Assistant

Jan. 2021 – Present

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

Sep. 2022 – Present

Alan Turing Institute, DataSig team (Online, May 23)

Conférence sur l'Apprentissage automatique (Strasbourg, Jul. 23)

Journées de Statistique (Bordeaux, May 24)

Publications

Deep Sketched Output Kernel Regression for Structured Prediction (Preprint).

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