

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 <i>Paris, France</i>
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 <i>Exchange Program - Computer and Data Science</i>	Aug. 2017 – Dec. 2017 <i>Buenos Aires, Argentina</i>
UNIVERSITÉ JEAN MONNET <i>Bachelor's degree - Mathematics</i>	Sep. 2016 – Sep. 2017 <i>Saint-Étienne, France</i>

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 <i>Paris, France</i>
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 <i>Paris, France</i>
MÉDICIS <i>Computer Science Intern</i> <ul style="list-style-type: none">• Development of a NoSQL data entry server (MongoDB)	Jun. 2019 – Aug. 2019 <i>Paris, France</i>
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 <i>Paris, France</i>

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

ELISE Theory Workshop (Sophia Antipolis 2022), CAp (Strasbourg 2023)

Publications

Conference

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