Tamim El Ahmad
PhD · Machine Learning
tamim-el.github.io

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Créteil, France   github.com/tamim-el

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, Knime)

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   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