Valentina ZANTEDESCHI

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Machine Learning Doctoral Researcher

Education

PhD Student, Machine Learning Team of Hubert Curien lab. — since September 2015, Saint-Etienne (France)
Supervisors: Marc Sebban, Rémi Emonet
Subject: learning data representations using statistical methods and probabilistic models with theoretical guarantees
Topics: Learning Theory, Generalization Guarantees, Local Learning, Decentralized Learning, Metric Learning, Deep Learning, Weakly Label Learning

Master in Computer Science — September 2010 - September 2015, Lyon (France)
Computer Science Department of **INSA Lyon**.

Polytechnic University of Turin — September 2014 - February 2015, Turin (Italy)
Exchange program to the Computer Science Department

Bachelor of Applied Science (BASc), Mathematics and Physics — September 2005 - June 2010, Verona (Italy)

Experience

Research Visit — 1 month - September 2017, Lille (France)
Collaborators: Marc Tommasi, Aurélien Bellet
Decentralized learning of personalized models by exploiting information of a graph of users.

Research Internship — 4 months - Summer 2017, Dublin (Ireland)
Supervisors: Mathieu Sinn, Maria-Irina Nicolae
Studying and building deep learning architectures robust to adversarial examples.

Research Internship — 4 months - Summer 2015, Saint-Etienne (France)
Supervisors: Marc Sebban, Rémi Emonet
Learning convex combinations of metrics for regression tasks with application in color distance perception modeling and word embedding enhancement.

Research Internship — 3 months - Summer 2014, Saint-Etienne (France)
Supervisors: Rémi Emonet
Statistical classification of documents based on Topic Models (DLA and PLSM) and Fisher Vector classifier.

Software Engineering Internship — 3 months - Summer 2013, Lyon (France)
Automatic and real time video cropping.

Publications

Fast and Provably Effective Multi-view Classification with Landmark-based SVM — ECML 2018, Dublin (Ireland)
V Zantedeschi, R Emonet, M Sebban

Decentralized Frank-Wolfe Boosting for Collaborative Learning of Personalized Models — CAp 2018, Rouen (France)
V Zantedeschi, A Bellet, M Tommasi

Efficient Defenses against Adversarial Attacks — AISEC 2017, Dallas (Texas)
V Zantedeschi, MI Nicolae, A Rawat

L3-SVMs: Landmarks-based Linear Local Support Vectors Machines — CAp 2017, Grenoble (France)
V Zantedeschi, R Emonet, M Sebban

beta-risk: a New Surrogate Risk for Learning from Weakly Labeled Data — NIPS 2016, Barcelona (Spain)
V Zantedeschi, R Emonet, M Sebban

Metric Learning as Convex Combinations of Local Models with Generalization Guarantees — CVPR 2016, Las Vegas (Nevada)
V Zantedeschi, R Emonet, M Sebban

Apprentissage de Combinaisons Convexes de Métriques Locales avec Garanties de Généralisation — CAp 2016, Marseilles (France)
V Zantedeschi, R Emonet, M Sebban

Teaching Assistance

2017-2018 Université Jean Monnet Saint-Etienne (France)	**1Master: Design and Analysis of Algorithms** Practicals: Introduction to Python, Divide-and-Conquer algorithms, Dynamic Programming, Graphs algorithms.
2016-2017 Université Jean Monnet Saint-Etienne (France)	**1Master: Introduction to Machine Learning** Ensemble Methods, Generalization, KNN, Bayesian Approaches. **1Master: Design and Analysis of Algorithms** Practicals: Introduction to Python, Divide-and-Conquer algorithms, Dynamic Programming, Graphs algorithms. **2Bachelor: Imperative Programming** Practicals: Introduction to Python. **1Bachelor: Introduction to Computer Science** Iterative and recursive functions, Trees, Graphs, Formal Grammars.
2015-2016 Université Jean Monnet Saint-Etienne (France)	**1Master: Machine Learning** Ensemble Methods. **1Bachelor: Software Tools** Practicals: Latex, Excel, Bash. **1Bachelor: Introduction to Computer Science** Iterative and recursive functions, Trees, Graphs, Formal Grammars.

Other Research Activities

Conference Organizer	CAp 2014, IDA 2015
Workshop Organizer	Nemesis 2018
Paper Reviewer	ICML 2017, TIP Journal, JNNS Journal, JMLC Journal

Computer Science Skills

Programming Languages	**Python (2.7 to 3.x)**, C/C++, Javascript, Octave/Matlab, JAVA
Specific Libraries	Numpy, Scikit-Learn, Cvxopt, Tensorflow, Keras, Flask
OS	Linux, Windows

Others

Languages	Italian (native), English (proficient), French (proficient), Spanish (proficient), Japanese (basic)