

Valentina ZANTEDESCHI

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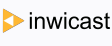
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Machine Learning Doctoral Researcher





Education

	PhD Student, Machine Learning Team of Hubert Curien lab. 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	since September 2015 Saint-Etienne (France)
	Master in Computer Science Computer Science Department of INSA Lyon.	September 2010 - September 2015 Lyon (France)
	Polytechnic University of Turin Exchange program to the Computer Science Department	September 2014 - February 2015 Turin (Italy)
	Bachelor of Applied Science (BASc), Mathematics and Physics	September 2005 - June 2010 Verona (Italy)

Experience

	Research Visit Collaborators: Marc Tommasi, Aurélien Bellet Decentralized learning of personalized models by exploiting information of a graph of users.	1 month - September 2017 Lille (France)
IBM Research	Research Internship Supervisors: Mathieu Sinn, Maria-Irina Nicolae Studying and building deep learning architectures robust to adversarial examples.	4 months - Summer 2017 Dublin (Ireland)
	Research Internship Supervisors: Marc Sebban, Rémi Emonet Learning convex combinations of metrics for regression tasks with application in color distance perception modeling and word embedding enhancement.	4 months - Summer 2015 Saint-Etienne (France)
	Research Internship Supervisors: Rémi Emonet Statistical classification of documents based on Topic Models (DLA and PLSM) and Fisher Vector classifier.	3 months - Summer 2014 Saint-Etienne (France)
	Software Engineering Internship Automatic and real time video cropping.	3 months - Summer 2013 Lyon (France)

Publications

	Efficient Defenses against Adversarial Attacks V Zantedeschi, MI Nicolae, A Rawat	AISEC 2017 Dallas (Texas)
CAp 2017	L3-SVMs: Landmarks-based Linear Local Support Vectors Machines V Zantedeschi, R Emonet, M Sebban	CAp 2017 Grenoble (France)
	beta-risk: a New Surrogate Risk for Learning from Weakly Labeled Data V Zantedeschi, R Emonet, M Sebban	NIPS 2016 Barcelona (Spain)
	Metric Learning as Convex Combinations of Local Models with Generalization Guarantees V Zantedeschi, R Emonet, M Sebban	CVPR 2016 Las Vegas (Nevada)
	Apprentissage de Combinaisons Convexes de Métriques Locales avec Garanties de Généralisation V Zantedeschi, R Emonet, M Sebban	CAp 2016 Marseilles (France)
	Lipschitz Continuity of Mahalanobis Distances and Bilinear Forms V Zantedeschi, R Emonet, M Sebban	arXiv 2016

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
Paper Reviewer	ICML 2017, TIP 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)
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