Europass Curriculum Vitae

Personal information

Surname / First name	**ZENNARO, Fabio Massimo**
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Nationality	Italian
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Gender	Male
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Education and Training

Dates (from - to)	January 2018 - January 2021
Name and type of organization	**University of Oslo**
Principal subjects/occupational skills covered	Post-doc in the OsloAnalytics group in the Informatics Department of the University of Oslo. My current research focuses on Bayesian machine learning, causality, subjective logic. I also collaborate with researchers from the SecurityLab group on evaluating the development of machine learning applications for computer security.
Dates (from - to)	July 2013 - October 2017
Name and type of organization	**University of Manchester**
Principal subjects/occupational skills covered	PhD in Computer Science at the Computer School of the University of Manchester. I have worked in the Machine Learning and Optimization group, where I studied novel algorithms for unsupervised learning, distribution learning and deep learning, with the ancillary aim of applying these algorithms to the problem of automatic speech emotion representation and recognition. I was awarded the "Kilburn" scholarship by the University of Manchester to support my studies.
Dates (from - to)	September 2011 - September 2012
Name and type of organization	**University of Oxford**
Principal subjects/occupational skills covered	MSc in Mathematics and Foundations of Computer Science. The main subjects I studied were quantum computer science, machine learning and communication theory. My final project was "Discrimination Nets: Improvement and Extension to Bang Graphs". I was awarded the "Isabella Sassi-Bonadonna" scholarship by AEIT to support my studies.
Marks	Final Mark: Distinction

Dates (from - to)	September 2009 - August 2010
Name and type of organization	**NTT Basic Research Laboratories**
Principal subjects/occupational skills covered	Vulcanus Programme in Japan. I was selected for an exchange programme between European and Japanese companies; I spent four months studying Japanese in Tokyo and eight months working in the research laboratories of NTT Basic Research Laboratories.
Dates (from - to)	September 2007 - October 2010
Name and type of organization	**Politecnico di Milano**
Principal subjects/occupational skills covered	MSc in Computer Engineering. The main subjects I studied were computer science, software engineering, artificial intelligence and mathematics. My final project was “Implementation and validation of a system for the classification of motor imagery in a brain-computer interface”.
Marks	Final Mark: 110 cum laude/110 (European ECTS mark: A)
Dates (from - to)	September 2007 - June 2008
Name and type of organization	**University College London**
Principal subjects/occupational skills covered	Erasmus Programme at the Computer Science Department of UCL. The main subjects I studied were computer science, computer security and network programming.
Marks	Average Grade: 84.6/100 (European ECTS average grade: A)
Dates (from - to)	September 2004 - July 2007
Name and type of organization	**Politecnico di Milano**
Principal subjects/occupational skills covered	BSc in Computer Engineering. The main subjects I studied are computer science, electronics, telecommunications, automation, mathematics, physics, probability and economics. My final project was “Comparing brain and computer: a conceptual analysis”.
Marks	Final Mark: 107/110 (European ECTS mark: A)

Research

Journal Papers

F. M. Zennaro, M. Ivanovska, A. Josang
An Empirical Evaluation of the Approximation of Subjective Logic Operators Using Monte Carlo Simulations
Published in *International Journal of Approximate Reasoning*, 2019, https://arxiv.org/abs/1808.05884

F. M. Zennaro, K. Chen
On the Use of Sparse Filtering for Covariate Shift Adaptation
Under revision, 2019, https://arxiv.org/abs/1607.06781

F. M. Zennaro, K. Chen
Towards Understanding Sparse Filtering: A Theoretical Perspective
Published in *Neural Networks*, 2017, https://arxiv.org/abs/1603.08831

Conference Papers

A. Egiazarov, V. Mavroeidis, F. M. Zennaro, K. Vishi.
Firearm Detection and Segmentation using an Ensemble of Semantic Neural Networks
European Intelligence and Security Informatics Conference (EISIC), 2019, https://arxiv.org/abs/2003.00805

F. M. Zennaro, M. Ivanovska
Counterfactually Fair Prediction Using Multiple Causal Models
16th European Conference on Multi-Agent Systems (EUMAS), 2018, https://arxiv.org/abs/1810.00694

Workshop Papers

F. M. Zennaro, K. Chen
Towards Further Understanding of Sparse Filtering via Information Bottleneck
https://arxiv.org/abs/1910.08964

F. M. Zennaro
Analyzing and Storing Network Intrusion Detection Data using Bayesian Coresets: A Preliminary Study in Offline and Streaming Settings
ECML 2019 Workshop on Machine Learning for CyberSecurity, 2019, https://arxiv.org/abs/1906.08528

F. M. Zennaro, M. Ivanovska
Pooling of Causal Models under Counterfactual Fairness via Causal Judgement Aggregation
ICML 2018 Workshop on Machine Learning for Causal Inference, Counterfactual Prediction, and Autonomous Action, 2018, https://arxiv.org/abs/1805.09866

F. M. Zennaro, K. Chen
Covariate Shift Adaptation via Sparse Filtering for High-Dimensional Periodic Data
NIPS 2016 Workshop on Learning in High Dimensions with Structure, 2016