CURRICULUM VITAE

PERSONAL INFORMATIONS

Name	**D'ORSI LAURA**
Address	**Largo Ines Bedeschi 5, 00166, Roma, Italia**
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Place and date of birth	**ROME, 10.03.1987**

EDUCATION AND TRAINING

• Qualifications	Ph.D. in course, in Automatic and Operational Research at DIAG, Department of Computer, Automation and Management Engineering "A. Ruberti ", La Sapienza University of Rome, via Ariosto 25;
	Master's Degree in Biomedical Engineering achieved in December 2012 with 110/110, La Sapienza University of Rome; thesis title: "Image analysis of liver tissue: segmentation with level-set and classification by support vector machine"
	Bechelor degree in Clinical Engineering, obtained in July 2010 with 103/110, La Sapienza University of Rome; thesis title: "PID control of a diabetes model: Adjusting blood glucose concentration"
	Scientific high school diploma, with 100/100, obtained in 2006, Liceo Scientifico Evangelista Torricelli in Rome.
• Qualification achieved	Biomedical engineer
	Enrollment in the Register of Engineers of the Province of Rome, completed in September 2013

INDUSTRIAL EXPERIENCE

• Date (from – to)	October 2006 – July 2017
• Name and address of the employer	B&D Servizi Rome, via di Montespaccato 15
• Type of business or sector	Services company
• Main tasks	- Call center for web marcheting - Idealization and realization of advertising banners - Design and implementation of web site
• Date (from – to)	February 2012 – June 2012
• Name and address of the employer	Istituto Superiore di Sanità Roma, Viale Regina Elena, 299

• Main tasks	Digital imaging of DICOM images with the purpose to obtaining a three-dimensional model of particular anatomic districts (aortic arch).
• Date (from – to)	April 2013 – December 2014
• Name and address of the employer	DIAG, Department of Computer, Automation and Management Engineering "A. Ruberti ", La Sapienza University of Rome, via Ariosto 25
• Main tasks	Collaboration contract; analysis of liver tissue images: realization of algorithms for automatic image segmentation by means of the Support Vector Machine. PHD study: processing and classification of electroencephalographic signals for the development of Human-Computer interaction devices.
• Publications	***SVM based pattern recognition of microscopic liver images****, Silvia Canale, Laura D'Orsi, Daniela Iacoviello, VIP IMAGE 2013 IV, ecomas thematic conference on computational vision and medical image processing 14-16 October 2013, Madeira Island, Portugal.*
• Date (from – to)	June 2013 – September 2013 / October 2016
• Name and address of the employer	National Research Council, Institute of Systems Analysis and Computer Science "A. Ruberti ", Laboratory of Biomathematics, Largo Agostino Gemelli 8, Rome
• Main tasks	Physiological model of stochastic differential equations with delay describing the mechanism of cerebral auto-regulation. Model implementation, high parameter estimation, stability study. Physiological model of respiratory system and patient-ventilator interaction.
• Publications	***Empirical modeling of cerebral autoregulation****, Simona Panunzi, Laura D'Orsi, Daniela Iacoviello, Andrea De Gaetano, I-WISH 2013, The International Workshop on Innovative Simulation for Healthcare 25 - 27 September 2013, Royal Olympic, Athens, Greece.* ***A sthocastic delay differential model of cerebral autoregulation****, Simona Panunzi, Laura D'Orsi, Daniela Iacoviello, Andrea De Gaetano, PlosOne, April 1, 2015 1:10(4).* ***Modelling the ventilator-patient interaction: a pressure-cycled control strategy,*** *Laura D'Orsi, Alessandro Borri, Andrea De Gaetano, 56th IEEE Conference on Decision and Control, Melbourne, Australia, December 12-15 2017*
• Date (from – to)	October 2015 – September 2016
• Name and address of the employer	National Research Council, Institute of Systems Analysis and Computer Science "A. Ruberti ", Via dei Taurini 19, Rome
• Main tasks	Analysis of a ceRNA-miRNA interaction model: search for optimal parameters. Modeling patient-ventilator interaction.

MAIN COURSES FOLLOWED

Training course for first aid workers and management of health emergencies related to Group B companies in accordance with D.M. No 388 of 15/07/2003 and D. Lgs n. 81/2008

Training course for fire prevention, fire fighting and emergency management for activities at low fire risk

Numerous seminars in the field of automation and biomedical engineering courses followed during the PhD course