Curriculum Vitae et Studiorum

MARCO PIANGERELLI

Qualifications and current position	01 June 2017 - present	Scholarship Da.Re. Project (EU Erasmus+) dare-project.eu
	31 January 2014- 30 January 2017	Ph.D. in Computer Science from University of Camerino Thesis: "A topological classifier for detecting the emergence of anomalous synchronization in brain activity". Thesis Defense 25 July 2017
	21 March 2013	Master's degree (MS) in Biomedical Engineering (Mechanical Bioengineering) from Alma mater studiorum-Università di Bologna. Thesis: "The effects of hypocalcemia on spatial alternans and ventricular fibrillation studied with optical mapping technique". Mark: 100/110
	24 February 2009	Bachelor's degree (BS) in Biomedical Engineering from Politecnico di Milano. Thesis: "Definizione di un protocollo per lo studio della deformazione delle labbra". Mark: 95/110.
	2 July 2003	High school leaving certificate taken after five years of Liceo "Giacomo Leopardi", Recanati (MC). Mark: 94/100.
Languages		Italian (first language) and English (IELTS, score: 6)
Technical skills		Knowledge of MATLAB and R (used in published papers) Basic knowledge of C and Python
Interpersonal skills		Excellent predisposition for teamwork
Conferences and experiences	September 2016	KDWeb 2016, Cagliari (Italy), Invited Speaker, Tutorial on Topological data analysis
	July 2015	TopDrim summer school and Workshop, Camerino (Italy)
	June 2015	INS 12th World Congress, Montreal (Canada), Poster Presentation\ Speaker
	October 2014	Conference NEUROTECHNIX, Rome (Italy), Speaker
	October 2014	Conference IJCCI-NCTA, Rome (IT), Poster presentation
	September 2014	European Conference on Complex Systems (ECCS), Lucca (Italy), Speaker
	June 2014	Conference CS2BIO, Berlin (Germany)
	March 2014	Bertinoro International Spring School (BISS), Bertinoro (Italy),
	August 2012	NBCR Summer School at UCSD, San Diego, California, USA.
	March - August 2012	International student at Biomedical Sciences department at Cornell University, Ithaca, NY, USA. Project about the effect of hypocalcaemia on cardiac dynamic (advisors: Prof. Robert Gilmour and Dr. Flavio Fenton).

Teachings	2017-2018	Algorithms and Data Structure – Lab (6 cfu), University of Camerino
	2014-2015	Distributed Calculus and Coordination (DCC) (3 cfu), Master degree in Computer Science, University of Camerino
	2015	Tutor in "Logic Circuits", Bachelor degree, University of Camerino
Projects	2017 - 2018	Doctoral Candidates Research Grant (DRG)"Nutrigenomics role of bioactive compounds extracted from legumes: new insights on lignans" (Proposer)
	2015 - 2017	Fondo di Ateneo per la Ricerca (FAR) "Materials and Technologies for improving the use of Renewable Energy in the Districts of smart city (MATREND)."(Researcher)
Scholarships, Grants and Prizes	January 2017	Grant from School of Advanced Studies of University of Camerino
	June 2014	4th Scientific Day of the School of Science and Technology, BEST POSTER in Computer Science
	August 2012	Scholarship from UCSD: presentation of the poster "Effects of hypocalcemia on spatial alternans and ventricular fibrillation." at NBCR summer school.
	March-August 2012	Scholarship from the Alma mater studiorum- Università di Bologna for working at Cornell University to study the effects of hypocalcemia on spatial alternans and ventricular fibrillation.

Publications

- Obesity-related genetic polymorphisms and adiposity indices in a young Italian population. Bordoni, L., Marchegiani, F.; Piangerelli, M.; Napolioni, V.; Gabbianelli, R.
  IUBMB Life, **2017**

- Topological classifier for detecting the emergence of epileptic seizures.
  Piangerelli, M.; Rucco, M.; Tesei, L.; Merelli, E.
  In *Arxiv*

- Hair Microelement Profile as a Prognostic Tool in Parkinson's Disease.
  Ferraro, S.; Nasuti, C.; Piangerelli, M.; Giovannetti, R.; G., Guidi, M.; Ferri, A.; & Gabbianelli, R.
  Toxics, **2016**.

- Pyrethroid Pesticide Metabolite in Urine and Microelements in Hair of Children Affected by Autism Spectrum Disorders: A Preliminary Investigation.
  Domingues, V.F.; Nasuti, C.; Piangerelli, M.; Correia-Sá, L.; Ghezzo, A.; Marini, M.; Abruzzo, P.M.; Visconti, P.; Giustozzi, M.; Rossi, G.; Gabbianelli, R.
  Int. J. Environ. Res. Public Health **2016**, *13*, 388.

- Metal and Microelement Biomarkers of Neurodegeneration in Early Life Permethrin-Treated Rats.
  Nasuti, C.; Ferraro, S.; Giovannetti, R.; Piangerelli, M.; Gabbianelli, R.
  Toxics **2016**

- A fully integrated wireless system for intracranial direct cortical stimulation, real-time electrocorticography data transmission, and smart cage for wireless battery recharge
  Piangerelli, M.; Ciavarro, M.; Paris, A.; and Marchetti, S.; Cristiani, P.; and Puttilli, C.; and Torres, N.; and Benabid, A.L.; and Romanelli, P.
  Frontiers in neurology, **2014**

- A topological approach for multivariate time series characterization: the epileptic brain.
  Merelli, E.; Piangerelli, M.; Rucco, M.; Toller, D**.**
  EAI Endorsed Transaction on Self-Adaptive Systems, **2016**

- Survey of TopDrim applications of Topological Data Analysis
  Merelli E.; Rucco, M,; Tesei, L.; Piangerelli, M.; Mamuye, A.; and Quadrini, M.
  Proceedings of the 2nd International Workshop on Knowledge Discovery on the WEB, KDWeb, **2016**

- Cyberbrain: a preliminary experience on non-human primate.
  Piangerelli, M.; Paris, A.; Romanelli P.;
  Neurotechnix **2014** Proceedings .

- RNN-based model for self-adaptive system- The emergence of epilepsy in the human brain .
  Merelli, E.; Piangerelli, M.
  IJCCI **2014** Proceedings.

Dichiaro di essere consapevole delle sanzioni penali previste nel caso di dichiarazioni non veritiere, di formazione o d'uso di atti falsi, richiamate dall'art. 76 del D.P.R. 445 del 28 Dicembre 2000, e di incorrere, altresì, nella decadenza dei benefici eventualmente conseguiti qualora in sede di controllo emerga la non veridicità del contenuto della dichiarazione.

Data Firma