CURRICULUM VITAE of Dario Corona

8 August 2019

EDUCATION AND TRAINING

2019	**PhD in Mathematics and Applications**, University of Camerino Field of Research: Control Systems Thesis: "Decomposition of Optimal Tracking Controllers for Weakly Dual Redundant Systems" Advisors: prof. Maria Letizia Corradini and prof. Roberto Giambò
2018	**Conseguimento di 24 CFU** nelle "discipline antropo psico pedagogiche e nelle metodologie e tecnologie didattiche". Requisito d'accesso al concorso per l'ammissione ai FIT, istituito ai sensi del Decreto ministeriale 616 del 10/08/2017
2018	**Research Stay in Slovak University of Technology, Bratislava** from February to April, I worked with the team of Prof. Ing. Michal Kvasnica to study the applications of my research in Model Predictive Control domain.
2015	**Master Degree in Mathematics and Applications**, University of Camerino Final Grade: full marks (110/110) and *summa cum laude* Thesis: "A Mathematical Model for the Development of a Lower Extremity Exoskeleton" Advisors: prof. Fabio Giannoni and prof. Maria Letizia Corradini
2014	**Research scholarship** Project: "Development of a lower limb exoskeleton for disabled people" founded by *MES S.p.a.* and the University of Camerino
2012	**Bachelor Degree in Mathematics and Applications**, University of Camerino Final Grade: full marks (110/110) and *summa cum laude* Thesis: "GARCH Model and Volatility Analysis in Finance" Advisor: prof. Carlo Lucheroni
2012	**University Stage** "Analisi ed Elaborazione 3D" at "Halley Informatica" company
2009	**Indam** (Istituto Nazionale di Alta Matematica) **scholarship**
2009	**High School**, Scientific Lyceum, Liceo Costanza Varano Camerino Final Grade: 100/100

TEACHING EXPERIENCE

2018/19	Appointed Professor of System Analysis and Control Theory, Unicam, Master Course in Mathematics and Applications, 42h, 6 CFU.
2018/19	Exercise Lectures of Mathematical Methods for Physics, Unicam, Bachelor Course in Physics, 25h
2018/19	Exercise Lectures of Analysis 2, Unicam, Bachelor Course in Physics, 25h
2017/18	Exercise Lectures of Analysis 2, Unicam, Bachelor Course in Physics, 25h
2016/17	Programming Class, Unicam, Bachelor Course in Mathematics and Applications, 30h
2016/17	Exercise Lectures of Analysis 2, Unicam, Bachelor course in Mathematics and Applications, 25h
2016/17	Exercise Lectures of Analysis 1, Unicam, Bachelor course in Mathematics and Applications, 25h

PUBLICATIONS

2019	Dario Corona, Andrea Cristofaro. *Optimally controlled steady-states for multi-input underactuated systems.* In European Control Conference 2019, Naples.
2019	Francesco Pezzuoli, Dario Corona, Maria Letizia Corradini. *Improvements in a Wearable Device for Sign Language Translation.* In Applied Human Factors and Ergonomics 2019, Washington D.C.
2019	Dario Corona, Andrea Cristofaro, and Damiano Rotondo. *Reachability and stabilization of scheduled steady-states for LPV single-input systems.* In Journal of the Franklin Institute, Volume 356, Issue 8, May 2019, Pages 4478-4495.
2018	Dario Corona, Andrea Cristofaro. *Optimal Closed-Loop Tracking Controllers for Weakly Dual Redundant Plants with Quasiperiodic References.* In Conference on Decision and Control 2018, Miami
2018	Dario Corona, Andrea Cristofaro. *Optimality Principles and Decomposition of Tracking Controllers for Weakly Dual Redundant Systems.* In Optimal Control Applications and Methods, Volume 39, Issue 4, July/August 2018, Pages 1451-1466.
2017	Francesco Pezzuoli, Dario Corona, Andrea Cristofaro, Maria Letizia Corradini *Development of a Wearable Device for Sign Language Translation.* In Human Friendly Robotics 2017, Napoli, November 2017
2017	Dario Corona, Andrea Cristofaro, and Damiano Rotondo. *Optimizing output regulation for a class of underactuated LPV systems.* In Mediterranean Control Conference, pages 135–140, July 2017.
2017	Dario Corona, Andrea Cristofaro, and Maria Letizia Corradini. *Optimal Output Regulation for Underactuated Systems with Quasiperiodic References.* IFAC World Congress 2017, pages 3717–3722.
2016	Dario Corona and Andrea Cristofaro. *Some remarks on optimal output regulation for weakly dual redundant plants.* In Mediterranean Control Conference, pages 1205-1211, June 2016.

WORK EXPERIENCE

Feb-June 2019	**External Expert and Tutor** For the PON/FSE project "10.6.6 A-FSEPON-LA-2017-27" Title "IPSIA: Immaginare per creare" - Module "Talking Hands: i segni prendono voce" - 108h I.S.I.S.S. Magarotto, Rome
from 2015	**Project Leader** Talking Hands: a wearable device for gesture recognition for Augmentative and Alternative Communication (Limix Srl)
from 2015	**Founding Partner** and **CEO** of **"LiMiX Srl"**, Innovative Start-up and Spin-off of the University of Camerino (Italy)
2015	**Project Leader** Creation and implementation of a 3D mounting and maintenance manual for electric cars University of Camerino and *"Belumbury Spa"*
2012/13	**Post Graduation Stage** in Logistic Department of *"Colussi Group"* company

THIRD MISSION

Through the spin-off Limix, I am translating the academic research into products with high social impact. The main project is Talking Hands, a wearable device for gesture recognition which aims to help people with severe speech or language problems.

Awards:

2019	**Seal of Excellence** (SME Instrument Phase 2): Certificate delivered by the European Commission which states that Talking Hands was scored as a high-quality project proposal in a highly competitive evaluation process.
2018	**SME Instrument Phase 1**: EU Commision funds for feasibility study (project manager)
2018	**finalist of Chivas Venture**, international competiotion for start-up with high social impact
2017	**POR MARCHE FESR 2014 2020** "Sostegno allo Sviluppo ed al Consolidamento di Start-Up ad alta Intensità di Applicazione di Conoscenza"
2016	**R.O.M.E. Prize**, 100.000$ for the European maker project with highest social impact
2016	**E-Capital**, regional Business plan competition
2015	**StartCup Marche**, regional Business plan competition

Main public presentations:

2019	**Forum PA** (Italian National Forum of Public Administration), invited by Undersecretary for Family and Disability Vincenzo Zoccano, Rome
2018	**Makers Town**, showcasing the Town of the Future and what needs to be done in terms of policy, private investment and education, Bruxelles
2018	**SUCCEED**, Stimulate financial education to foster entrepreneurship and Development, Bruxelles
2018	**Netval**, Italian association for the valorisation of results from public research, Unicam
2017	**Global Teacher Prize**, invited by MIUR, Dubai
2016	**Mind the Bridge**, start-up incubator ,San Francisco

COMPUTER SKILLS

I have great attitude and experience working on information technology

Operative Systems	Windows 7/10 - Linux (Ubuntu, Debian) good practical knowledge, obtained by personal and professional experience
Microsoft Office	Excellent knowledge of Excel, Word, Access, Power Point and VBA language
Programming	MATLAB, Python, C and C++

LANGUAGES

Italian	Mother tongue
English	Cambridge First Certification ($B2$)
German	Limited knowledge (non-certificated level: $A1$)

PROFESSIONAL SKILLS

Excellent attitude to problem solving	Excellent analytical skills
Flexibility and adaptability	Good communication skills
Diligent and responsible	