

PERSONAL INFORMATION **Dario Corona**

## TEACHING ACTIVITIES

- A.Y. 2019/2020 Adjunct Professor of Analysis 3, Unicam, Mathematics and Applications  
Exercise Lectures of Analysis 2, Unicam, Mathematics and Applications  
Exercise Lectures of Analysis 1, Unicam, Mathematics and Applications  
Exercise Lectures of Mathematical Methods for Physics, Unicam, Physics
- A.Y. 2018/2019 Adjunct Professor of System Analysis and Control Theory, Unicam, Mathematics and Applications  
Exercise Lectures of Mathematical Methods for Physics, Unicam, Physics  
Exercise Lectures of Analysis 2, Unicam, Physics
- A.Y. 2017/2018 Exercise Lectures of Analysis 2, Unicam, Physics
- A.Y. 2016/2017 Programming Class, Unicam, Mathematics and Applications  
Exercise Lectures of Analysis 2, Unicam, Mathematics and Applications  
Exercise Lectures of Analysis 1, Unicam, Mathematics and Applications

## RESEARCH ACTIVITIES

- 2020 [A multiplicity result for Euler-Lagrange orbits satisfying the conormal boundary conditions](#)  
D. Corona, Journal of Fixed Point Theory and Applications, 22:60, 2020
- 2020 [Development of a New Sign Language Translation System for People with Autism Spectrum Disorder](#)  
F. Pezzuoli, D. Tafaro, M. Pane, D. Corona, M. L. Corradini, Advances in Neurodevelopmental Disorders, 2020, doi: 10.1007/s41252-020-00175-6
- 2020 [Improvements in a Wearable Device for Sign Language Translation](#)  
F. Pezzuoli, D. Corona, M. L. Corradini, AHFE, Washington DC, 2019
- 2019 [Talking Hands: a data-glove that helps non-verbal forms of communication](#)  
F. Pezzuoli, D. Corona, M. L. Corradini, A. Capriotti, ATAD 2019
- 2019 [Optimally Controlled Steady-States for Multi-input Underactuated Systems](#)  
D. Corona, A. Cristofaro, ECC, Napoli, 2019
- 2019 [Reachability and stabilization of scheduled steady-states for LPV single-input systems](#)  
D. Corona, A. Cristofaro, D. Rotondo, Journal of Franklin Institute, Vol 356 Issue 8, pages 4478-4495
- 2018 [Optimal Closed-Loop Tracking Controllers for Weakly Dual Redundant Plants with Quasiperiodic References](#)  
D. Corona, A. Cristofaro, CDC, Miami, 2018
- 2018 [Optimality Principles and Decomposition of Tracking Controllers for Weakly Dual Redundant Systems](#)  
D. Corona, A. Cristofaro, Optimal Control Applications and Methods, Volume 39, Issue 4, July/August 2018, Pages 1451-1466
- 2017 [Optimizing output regulation for a class of underactuated LPV systems](#)  
D. Corona, A. Cristofaro, D. Rotondo, MED, Valletta, Malta, July 2017, pp. 135-140
- 2017 [Development of a Wearable Device for Sign Language Translation](#)  
F. Pezzuoli, D. Corona, A. Cristofaro, M.L. Corradini, Human Friendly Robotics 2017, Napoli, November 2017
- 2017 [Optimal Output Regulation for Underactuated Systems with Quasiperiodic References](#)  
D. Corona, A. Cristofaro, M.L. Corradini, IFAC, July 2017

- 2016 **Some remarks on optimal output regulation for weakly dual redundant plants**  
D. Corona, A. Cristofaro, MED; Athens, Greece, June 21-24, 2016, pp. 1180-1186

## WORK EXPERIENCE

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- From March 2015 **CEO of Limix srl**  
Limix Srl, Via Madonna delle Carceri 9, Camerino ([www.limix.it](http://www.limix.it))  
▪ Co-founder of Limix Srl and member of the management board - Software engineer  
**Business or sector** Research
- From January to June 2015 **Researcher & Project Leader**  
University of Studies of Camerino, Unicam, Italy & Belumbury Spa  
▪ Creation and implementation of a 3D mounting and maintenance manual for electric cars  
**Business or sector** Research
- From November 2012  
to April 2013 **Post Graduation Stage**  
Colussy Group, Italy  
▪ Member of the Logistic Department  
**Business or sector** Food Production

## EDUCATION AND TRAINING

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- May 2019 **Phd in Mathematics and Applications**  
University of Studies of Camerino, Unicam, Italy  
Thesis: "Decomposition of Optimal Tracking Controllers for Weakly Dual Redundant Systems"
- July 2019 **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
- April 2015 **Master Degree in Mathematics and Applications**  
University of Studies of Camerino, Italy  
Grade: 110/110 cum laude  
Thesis: "A Mathematical Model for the Development of a Lower Extremity Exoskeleton"
- From March to September  
2014 **Research scholarship**  
University of Studies of Camerino, Italy  
Project: Design a Lower Extremity Exoskeleton"
- April 2015 **Bachelor Degree in Mathematics and Applications**  
University of Studies of Camerino, Italy  
Grade: 110/110 cum laude  
Thesis: "GARCH Model and Volatility Analysis in Finance"
- From A.Y. 09/10 to A.Y. 11/12 **INDAM (Istituto Nazionale di Alta Matematica) Scholarship**

PERSONAL SKILLS

Mother tongue  
Other language(s)

Italian

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
Replace with name of language certificate. Enter level if known.				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills gained through my experience as speaker of LiMiX srl in public events

Organisational / managerial skills

- Good managerial skills, gained as CEO of LiMiX srl

Job-related skills

- Optimal Problem Solving skills, gained during my education and work experience
- Excellent analytical skills
- Flexibility and adaptability

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient User	Proficient User	Proficient User	Proficient User	Proficient User

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

- optimal command of Windows and Linux SO
- optimal command of Microsoft Office Suite gained during my work in logistic department of Colussi
- optimal command of several integrated development environment and programming languages, such as: Matlab, C, C++, Python, C#, Fortran

Driving licence

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ADDITIONAL INFORMATIONS

Awards

Winner, with the project Talking Hands of Limix Srl of:

- SME Instrument Phase 1: EU Commision funds for feasibility study (project manager)
- POR MARCHE FESR 2014-2020 “ Sostegno Allo Sviluppo Ed Al Consolidamento Di Start Up Ad Alta Intensita’ Di Applicazione Di Conoscenza”
- R.O.M.E. Prize: 100.000\$ for the European maker project with highest social impact
- E-Capital: Business plan regional competition
- StartCup Marche: Business plan regional competition