

PERSONAL INFORMATION



ANTONELLO CHERUBINI

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📅 Date of birth 29/12/1987 | 🇮🇹 Nationality Italian

WORK EXPERIENCE

2013 - today

Percro Robotics Laboratory – Research fellow

Sant'Anna University, Pisa, Italy - TU Delft, The Netherlands

- Experimental automated takeoff of a wind energy drone TU Delft, The Netherlands
- Hydrodynamic modelling of an offshore floating Airborne Wind Energy system
- Experimental thermo-mechanical characterization of high-density Nylon Coil actuators

2012 - 2013

Kitegen Srl

R&D engineer

- Feasibility analysis of a special pulley

EDUCATION

2013 - 2017

PhD

PhD with honours at Sant'Anna University, Pisa, Italy

- Research activity with main focus on Airborne Wind Energy at Percro robotics laboratory
- [Winner of PhD prize Bernardo Nobile 2017](#)

2007 - 2012

Mechanical engineering

Bachelor degree (110/110) and MSc degree (110/110) in mechanical engineering at Politecnico di Milano

- [Winner of Tenaris-Dalmine Scholarship 2012](#)
- Exchange program at University of Maryland, USA, 2010
- Exchange program at Tongji University, Shanghai, Cina, 2007/2008

PUBLICATIONS

2017 A. Cherubini, G. Moretti, M. Fontana, "Sistema aereo di captazione eolica d'alta quota per generatore eolico", patent application

2016 A. Cherubini, R. Vertechy, M. Fontana, "Dynamic Modeling of Offshore Airborne Wind Energy Converters", (accepted for publication as book chapter in the second edition of the AWE Book, Roland Schmehl Ed.)

2015 A. Cherubini, A Papini, R Vertechy, M Fontana, "Airborne Wind Energy Systems: A review of the technologies" Renewable and Sustainable Energy Reviews 51, 1461-1476, [ranks 13th on the list of the most downloaded paper of all times](#) of the journal Renewable and Sustainable Energy Reviews and it is the [first google result](#) when looking for Airborne Wind Energy

2015 A. Cherubini, R. Vertechy, M. Fontana, "Simplified Model of Offshore Airborne Wind Energy Converters", Renewable Energy

2015 A. Cherubini, G. Moretti, R. Vertechy, M. Fontana, "Experimental Characterization of Thermally-Activated Artificial Muscles based on Coiled Nylon Fishing Lines", AIP Advances 5 (6), 067158

2015 G. Moretti, A. Cherubini, R. Vertechy, M. Fontana, "Experimental characterization of a new class of polymeric-wire coiled transducers", SPIE Smart Structures, San Diego

2013 A. Cherubini, M. Ippolito, "Puleggia perfezionata per verricello ad alta efficienza", patent application ITTO20130365.

SEMINARS AND TALKS

- 2017 "Fundamentals of Airborne Wind Energy Systems", 10 hours course, Universidad Carlos III de Madrid, Spain
- 2017 "The hidden power of students", TEDx Sant'Anna, Pisa, Italy, [Video link](#)
- 2016 "Rotary wind drones for jet-stream wind power", TU Delft, The Netherlands, [Video link](#)
- 2016 "Physical foundations of Wind Drones", Uni Bonn, Physics department, Germany

LANGUAGE SKILLS

Mother tongue	Italian				
Other languages	LISTENING	READING	SPEAKING	WRITING	CERTIFICATION
English	C2	C2	C1	C2	IELTS ACADEMIC C2 8/9
French	B1	B2	B1	A2	DELTA A2
German	A1	A1	A1	A1	
Spanish	A1	A1	A1	A1	
Chinese	A1	A1	A1	A1	HSK ELEM. C 3/11

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user European Framework for Languages

PROGRAMMING SKILLS

OS and office	Windows, Android, Ubuntu, MS Office, Latex
Programming	Matlab, Simulink Python, Django tester Web design – html 5, css, javascript Team leader at www.gathome.com Lead developer at www.tueamore.org
Engineering	CAD: Solidworks, Inventor, Solidedge, Analisi strutturale, FEM: Abaqus Labview: Basic (Core1)
Prototyping	Arduino IDE for real time data acquisition

Pisa, December 1st, 2017
Antonello Cherubini

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