



# Ademollo Andrea

## PERSONAL INFORMATION

Date of birth: 07/03/1998

Address: Via Argin Grosso 69 Firenze

Own car: Patente B

## CONTACT

 3345891455

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## PASSIONS

- I play basketball in Serie D
- I play the clarinet

## LANGUAGES

- ✓ Italian: Native language
- ✓ English: B2 Level
- ✓ French: A2 Level

## PROFILE

*I am a determined person who pursues the set goals with great enthusiasm and spirit of sacrifice. Challenges stimulate me. I like teamwork.*

*My goal is to be able to leave a contribution in the development of new systems for the production and / or management of energy capable of significantly reducing polluting emissions.*

## EDUCATION

- 2022 – In Progress: PhD student on topic: “Technical and economic analysis for hydrogen implementation in hard-to-abate companies and energy communities”, Dief Unifi
- 2020 – 2022: Master's Degree in Energy Engineering at the University of Florence  
Vote: 110L/110 with Honours
- 2017 – 2020: Bachelor's Degree in Mechanical Engineering at the University of Florence  
Vote: 110L/110 with Career Mention
- 2012 – 2017: Diploma at the high school N.Rodolico  
Vote: 100/100

## EXPERIENCES

- 01/01/2023 – In Progress: Consultancy on integrated hydrogen energy systems for two companies needing hydrogen as an energy vector or as a chemical reactant in order to ensure the minimum levelized cost of hydrogen.
- 01/02/2023 – In Progress: Pre-incubation path to develop a Spin-off on a project focused on the development of a new agrifotovoltaic model and on the implementation of agro-ecological energy communities.
- 01/11/2022 – 01/11/2023: Collaboration with ESTRA S.P.A. for the implementation of a hydrogen production and process utilization system for a textile industry.
- 15/02/2023 – 17/02/2023: Presentation at the IEWT conference held at the TU Wien with the conference paper entitled: “The holistic view of the energy systems promotes the increase of prosumer flexibility by coupling electricity and gas infrastructures”.
- 01/03/2022 – 01/05/2022: Research-fellow in a European research project called INTERACT – “Integration of Innovative Technologies of Positive Energy Districts into a Holistic Architecture”, TU Wien
- 01/02/2022 – 01/08/2022: Erasmus + Internship for master thesis entitled “Planning of coupling components to enable cross-coupling of electricity and gas vector”, TU Wien
- 05/2021 – 07/2021: Energy optimization study at “Nuova Officina Stella”
- 09/2019 – 11/2019: Clerk - Primark Florence
- 2021 – In progress: Party organizer for students
- 2015 – In progress: School tutor
- 2014 – In progress: Basketball Coach and Referee

## AWARDS

- 10/2023: 1<sup>st</sup> prize at the final event of "Impresa Campus Unifi". It is a program aimed at enhancing soft skills, developing the ability to manage innovative projects, and promoting an entrepreneurial culture. The project with which we won the 1st prize is called "AGRIECOVOLT," a startup project that focuses on optimizing photovoltaic energy production without compromising agricultural growth by utilizing software and data analytics.
- 07/2023: Degree Award Lions Club Firenze 'Dante Alighieri' 2022. The Department of Industrial Engineering, thanks to the funding provided by the Lions Club Florence "Dante Alighieri," has issued a Call for Applications for the award of 1 Master's Degree Prize in Mechanical Engineering and Energy Engineering for graduates in the year 2022 who have conducted a thesis on topics related to the energy transition.
- 03/2022: Regional finalist at Schneider Go Green 2022 challenge with the project: "Reversible ORC-HP power plant for condominium".
- 12/2021: Finalist at the 5th edition of "SSE challenge" with the project: "Reversible ORC-HP power plant for condominium".
- 10/2021: Scholarship Certificate of the "6th international seminar on ORC power systems" by Orcan Energy

## PUBLICATIONS

- Mati, A., Ademollo, A., Carcasci, C. "Assessment of paper industry decarbonization potential via hydrogen in a multi-energy system scenario: a case study" *Smart Energy*, 11, 100114.
- Under review - Ademollo A, Ilo A, Carcasci C. "End-Use Sector Coupling to better utilize rooftop PVs by producing and injecting synthetic natural gas into the low-pressure gas grid", *Smart Energy*.
- In course of publication: - Ademollo, A., Mati, A., Carcasci, C. "Green Hydrogen-Powered Cogeneration Systems: Solid Oxide Fuel Cells Shaping the Future of Energy-Intensive Industries", *Applied Energy*.
- Ademollo, A., Ilo, A., Carcasci, C., "End-Use Sector Coupling to turn customer plants into prosumers of electricity and gas" *CIREN conference*, 12-15 June, 2023, Rome, Italy.

## CERTIFICATES

- 31/01/2024 – 02/02/2024: Certificate of attendance at the "Python for scientific computing" course, Rome, Italy.
- 08/10/2023 – 10/10/2023: Certificate of attendance at the "Introduction to Python Programming" course, Rome, Italy.
- 01/2023: State examination for qualification to practice the profession of Industrial Engineer - Section A, order of engineers of the province of Florence, University of Florence, Italy
- 07/2021: Certificate of curriculum selection and attendance to the 'Green Week Festival - Festival della Green Economy', Parma, Italy
- 09/2020: First Certificate in English, Cambridge University Press & Assessment English

## INTERNATIONAL CONFERENCES

- *18<sup>th</sup> Sustainable Development of Energy, Water and Environment Systems (SDEWES) conference, Dubrovnik (Croatia), 24<sup>th</sup>-29<sup>th</sup> September 2023.*
- *13<sup>th</sup> Internationale Energiewirtschaftstagung (IEWT) conference, Wien (Austria), 15<sup>th</sup>-17<sup>th</sup> February 2023.*

## SKILLS

- *Office tools (Excel, Word, Powerpoint)*
- *Python, Matlab, EES*
- *Sincal*
- *Namirial*
- *Ansys*
- *Solidworks (CAD)*

## SOFT SKILLS

- *Problem solving*
- *Resourcefulness*
- *Teamwork*
- *Continuously eager to learn and improve myself*
- *Competitiveness*

## ADDITIONAL INFORMATION

- *Willingness to travel abroad*

*I authorize the processing of personal data contained in my Curriculum vitae on the basis of Art. 13 of Legislative Decree 196/2003 and Art. 13 GDPR 679/16*

*Firenze*

*22/03/2024*

