Carlo Alberto Amadei

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WORK and RESEARCH EXPERIENCE

World Bank, Water Specialist

Washington DC (US), 2019 to present

Harvard University, Graduate Researcher

Cambridge (US), 2014 - 2019

- Managed research projects to fabricate novel membranes to increase efficiency (by 50%) in water separation processes; the projects involved a team composed of four undergraduates and one master's student
- Established collaborations with governmental agencies (Bureau of Reclamation, Department of Interior)
- Developed and implemented 2 high-throughput standardization methods for characterizing nanomaterials

Novartis, Environemntal Defense Fund Fellow

Cambridge (US), Summer 2018

• Modeled carbon dioxide emissions in the supply chain to drive sustainable business (15%/year reduction in total emissions)

Harvard University, Teaching Fellow

Cambridge (US), 2015 - 2017

• Assisted in teaching three undergraduate classes in environmental engineering (water engineering)

Masdar Institute of Science and Technology, Research Assistant

Abu Dhabi (UAE), 2012 - 2014

- Developed, tested, and analyzed nanomaterials for sustainable energy applications
- Managed research projects in joint partnerships with American (MIT) and European (Spain) research groups

- EDUCATION -

Harvard University

Cambridge (US), 2019

Ph.D. Environmental Engineering (3.9/4.0)

Autonomous University of Barcelona,

Barcelona (SP), 2014

M.Sc. Materials Science and Nanotechnology (9.0/10.0)

University of Modena & Reggio Emilia,

Modena (IT), 2012

M.Eng. Environmental Engineering (110/110 cum laude)

University of Modena & Reggio Emilia,

Modena (IT), 2009

B.Eng. Environmental Engineering (110/110 cum laude)

- LEADERSHIP EXPERIENCE -

Veganali, Expedition leader

Cambridge (US), 2018-2019

- Led the first vegan expedition to Denali (highest peak in North America) to raise awareness on the radical shifts needed in our food systems
- Documentary on the expedition featured at "Boston Food Veg Fest"

Harvard Italian Student Society, Co-Founder & Co-President

Cambridge (US), 2016 - 2018

- \bullet Established the university-wide society across all Harvard schools (now counting >100 members)
- Organized panels, networking, and social events (dozen events in the first year, >50 attendees/event)

- FELLOWSHIPS and AWARDS -

American Membrane Technology Association, Fellowship (awarded to 3 students nationwide) 2017 Pierce Fellow (additional scholarship at Harvard University) 2014 - 2017

Premio Mussini for academic excellence (University of Modena, awarded to 5 graduate students) 2012

First Place in Engineering Program for International Students (Beijing University of Technology)

2011

Premio di Studio for academic excellence during undergraduate degree (University of Modena)

2009

- SKILLS and INTERESTS

Computer: Python, Matlab, Adobe Illustrator Image J, IATEX, SAM (System Advisor Model for Solar Tech)

Languages: Italian (mother tongue), English (fluent), Spanish (advanced)

Technical: Engineering of water filtration systems; experience in bottom-up and top-down fabrication; expert user of materials characterization tools

Interests: Mountaineering (summit 6000-meter-peaks), Triathlon (Ironman finisher), travel (45 countries), sustainable business (worked in collaboration with Harvard Business School researchers on sustainable use of resources)

- PUBLICATIONS and CONFERENCE PRESENTATIONS -

Publications: 14 peer-reviewed articles (10 first authors, impact factor range 4-8)

Conferences: 8 presentations in international conferences (5 oral and 3 poster presentations)