

## CV summary

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**Alberto Traverso**, Full Professor of Energy Systems at University of Genoa, Italy, since 2019. He started the academic career as Assistant Professor in 2005 at the Genoa Rolls-Royce University Technology Centre.

**Qualifications:** PhD in Mechanical Engineering (2004), Italian Professional Engineer (2000).

**Main duties:** Adjunct Professor at West Virginia University (USA) since 2010, Research scholar at National Energy Technology Laboratory – NETL (USA) since 2009, Chair of SUPEHR conference in 2019, Chair, Vice-Chair and Point of Contact for Cycle Innovations Committee of the American Society of Mechanical Engineers – ASME in 2009-2015, serving the ASME Turbo Expo' Conference Board since 2017, Member of the Advisory Committee for the European Micro Gas Turbine Forum since 2017, Member of the International Advisory Committee (IAC) for Gas Turbine Society of Japan (GTSJ) since 2013.

**Past Appointments:** “Experienced researcher” under Marie Curie “EnSOFC” grant (2007 – 2010), at Rolls-Royce FCS laboratories, UK, and under Marie Curie “Bio-SOFC” grant (2007 – 2010), at AGH laboratories, Poland. External reviewer for Cambridge University PhD in 2008, for Royal Institute of Technology (KTH) PhD, Sweden, in 2016-2018, and for City University of London PhD, UK, in 2017.

**Research interests:** Alberto Traverso is active in the field of Advanced Energy Systems both in the experimental and theoretical fields. His main area of research is advanced energy cycles, encompassing thermoeconomic optimisation, dynamic analysis and controls, uncertainty quantification and robust design. Alberto Traverso leads different experimental research activities on: combined cycle flexibility, bladeless turbomachinery, fuel cell and hydrogen, microturbine cycles and smart polygeneration grids.

**Research results:** more than 200 scientific papers, most of them published at International conferences and Journals, 11 invited lecturers, 14 patents (Italy, US and World), 7 awards: 2018 GPPS Best Paper Award, 2017, 2013, 2008, 2003 ASME Best Paper Awards, 2009 Ansaldo Energia Innovation Award, 2006 10 most cited articles for the years 2002 to 2005 of the Journal “Applied Thermal Engineering”, 2001 The European Talent Award for Innovative Energy Systems in Pow\_Gen Europe Expo'. Transfer of knowledge to National companies (ENEL, ENI, Ansaldo Energia) and International companies (Rolls-Royce, LG Fuel Cell Systems, VAST Power Systems). Founder of two startup companies, H2Boat and SIT Technologies.

**Leadership and funding:** Alberto Traverso has been Scientific Responsible for the University of Genoa of more than 2,8Meuro research projects, including EU funded projects (H2020: PUMP-HEAT (coordinator), Bio-HyPP; FP7: Energy-Hub, RESILIENT), International projects (Air Force Office of Scientific Research – USA, National Energy Technology Laboratory – USA), National projects (Regional Council, Ministry of National Defence), private company research (Ansaldo Energia, RINA, etc.).

**National and International advisor positions:** Expert reviewer for Horizon 2020, European Commission, since 2014. Inspector for GSE, Rome, since 2011, for Cogeneration Power Plants. Evaluator of research projects for Regione Piemonte since 2010. Evaluator for Slovakia National research projects in 2006. External advisor for VAST Power Systems Inc. (USA) in 2002 and 2003.