

### Personal Information:

Name: Vincenzo Mulone, born on November, 14, 1975.

SCOPUS ID: 6506125711. Citation Index=1069, Hirsch Index=19.

GOOGLE SCHOLAR. Citation Index=1342, Hirsch Index=20.

Co-author of more than 140 papers.

### Education

2004-2005: Post Doc Position, Department of Mechanical Engineering, University of Rome Tor Vergata.

2004: PhD. In energy and environmental engineering at the University of Rome Tor Vergata.

2000: Master degree in Mechanical Engineering at the University of Rome La Sapienza.

### Current and Previous Positions; Habilitations

2015- Associate professor, laboratory of renewable energy, Department of Industrial Engineering, University of Rome Tor Vergata.

2010- Adjunct professor at the Mechanical and Aerospace Engineering Department at the West Virginia University.

2005-2015- Assistant professor, laboratory of renewable energy, Department of Industrial Engineering, University of Rome Tor Vergata.

Head of the laboratory of renewable energy, Department of Industrial Engineering, University of Rome Tor Vergata.

National professorship habilitation in March 2017 (ASN 2016) and national associate professorship habilitation in January 2013 (ASN 2012).

### Teaching Activities

2012-: "Fluid machinery" for MSc. in mechanical engineering, taught in the Italian, 60-80 students.

2010-: "Fluid machinery" for BS. In engineering sciences, english taught, 30-40 students.

2010-: "Renewable energy technologies" for MSc. of Energy and Mechanical Engineering, taught in the Italian, 30-40 students.

2004-2011: "Energy systems" for BS in mechatronic engineering, taught in the Italian, 20-30 students.

### Supervision of Undergrad and Graduate Students and Postdoctoral Fellows

I have supervised more than 130 MSc. students and more than 30 BS. Students. I have co-supervised or supervised 12 PhD students and 3 post-doc students. Former students and PhD students have been employed in research centers or important companies, including Argonne National Laboratory, ENEA, CNR, EMITEC, IVECO, FCA, ENEL-X, etc.

### Main Institutional Responsibilities

Regular member of the selection committee of extra-european exchange students at the University of Rome Tor Vergata for all the 6 schools (Engineering, Science, Law, Arts and Literature, Economics, Health Sciences).

Member of the permanent committee for quality control of Mechanical engineering MSc. and BS courses.

Regular president of graduation committees in Mechanical Engineering, Energy Engineering and Engineering Sciences since 2020.

### Organization of Scientific Meetings

Organizer of the Emission Control Modeling session at the SAE World Congress at Detroit since 2004.

Organizer of the Alternative fuels and lubricants session at the SAE ICE Congress, Capri, since 2015.

### Reviewing Activities and Commissions of Trust

2020 Co-editor of a Springer monography on Natural Gas Engines.

2020 Guest Editor of special issues of Energies.

2020 Guest Editor of special issues of Frontiers in Mechanical Engineering.

2020 Editorial board of Energies.

Regular reviewer of reference Journals in the energy and automotive sectors, including Energy, Applied Energy, Int. J. of Hydrogen Energy, Applied Thermal Engineering, Energy Conversion and Management, SAE Journals, etc.

Regular participation to committees for the selection of Fulbright candidates for PhD and research scholar grants.

Regular reviewer of national calls for proposals.

Participation to committees and principal opponent in PhD defenses for several Universities, including West Virginia University, Lund University, Politecnico di Milano, Politecnico di Torino, Università di Bologna, Università di Salerno.

### Main international research and academic collaborations

Dr. Mridul Gautam, University of Nevada Reno (US).

Dr. Sundar Rajan Krishnan and Kalyan Kumar Srinivasan, University of Alabama (US).

Dr. Victor Mucino and Dr. Arvind Thiruvengadam, West Virginia University (US).

Dr. Simona Onori, Stanford University (US).

Dr. Seamus Freyne, University of Mississippi (US).

Dr. Riccardo Scarcelli, Argonne National Laboratory (US).

Dr. Per Tunestal, Lund University (Sweden).

Dr. Pio Alessandro Lombardi, Fraunhofer Institute for Factory Operation and Automation (Germany).

Dr. Kumar Gopalakrishnan, Stavenger University (Norway), Yonsei University (South Korea).

Dr. Domingo Santana Santana, Universidad Carlos III Madrid (Spain).

### Research Funding

Since 2006 I have been leading or co-leading industrial projects with EMITEC, SIEMENS, CRF, LOMBARDINI, MIVV, ALPPS, HARLEY DAVIDSON, IVECO, IVECO-ALTRA.

I participated in several projects in FP6 and FP7, PRIN funded programs and research programs funded by Regione Lazio. I am CO-PI in a European ERA-NET project (MESH4U) funded by MUR (Ministero dell'Università e della Ricerca). I am in charge of leading the design activities in a project funded by FFG (The Austrian Research Promotion Agency) for the retrofit of Diesel locomotives in Austria with a PEM Fuel Cell, led by OBB. I have been PI since 2017 of research projects funded by MISE (Ministero per lo Sviluppo Economico) in the framework of Ricerca di Sistema with ENEA on battery energy storage.

### Technology transfer

Co-founder of the spin-off Intellienergia in 2009, a company still active on the design of renewable energy power plants.

### Invited Lectures and Seminars

Argonne National Laboratory, seminar held in November 2020.

Lund University, seminar in November 2018.

AIChE conference, San Francisco, AIChE annual meeting 2016.

ASABE annual meeting Invited lecture San Antonio (TX), August 2012.

University of L'Aquila, seminar in 2011.

Argonne National Laboratory, seminar held in March 2010.

Argonne National Laboratory, seminar held in October 2007.

European Fuel Cell Conference, invited lecture in December 2005.

### Awards and Recognitions

Best presentation at the Multi-Dimensional modeling session of the SAE World Congress in 2015.

ALTRA award for the innovation in education and teaching, 2014.

Forest R. McFarland SAE award in 2012.

Fulbright research scholar grant awarded in 2009 and spent at the West Virginia University in 2009-2010, at the CAFEE research lab.

Appreciating mention ITALGAS PRIZE for the PhD dissertation, 2005.