ANDREA MICANGELI **Curriculum Vitae** Part I – General Information

Full Name Andrea Micangeli E-mail

andrea.micangeli@uniroma1.it

Spoken Languages Italian, English, Spanish

Brief Resume: Andrea Micangeli has been teaching classes about Energy and Environment in a number of Universities from year 2001, he delivered several different Ing-Ind/09 courses, both in research and didactic he is the Director at Sapienza Engineering Faculty of the Grand Challenges Scholars Program issued by the US National Academy of Engineering. In the last 20 years he has been author of more the 100 publications among books, chapters, papers autonomously proposed in continuous dialog with international scholars fully dedicated Mini-Grids Optimization and Access to Energy. Through this research group he is now fundraising for DIMA Department and for specific autonomous projects to further develop numerical analysis and scientific models for Mini Grid Optimisation.

Research Interests: He obtained the Energy Systems ASN-Associate Professor Qualification in 09/C1 sector. He is performing research and didactic activities at Sapienza DIMA Department within the SSD ING-IND/09 Group "Energy and Environmental Systems".

This intensive collaboration among international American, European and African Universities as Research Group Coordinator Andrea Micangeli, autonomously and successfully opened a new set of studies committed to "energy access and mini grid optimization" delivering with Phd students, and Italian AIMSEA colleagues a continuous series of scientific activities fully dedicated to Deterministic, Heuristic, Stochastic and Multi Objective Models.

Research Indicators:

On Scholar Google. H-index: 15; Indexed documents: 60; Number of citations: 609;

Within different projects he has been hosted abroad an average of 3-month por year times at:

- Columbia University NYC (invited lecturer)
- State University of New York (Adjunct Associate Professor) •
- Nairobi Strathmore University (Engineering Faculty Board of Founders) •

Part II – Education

Туре	Year	Institution	Notes
Post-graduate studies	1996	Sapienza University of Rome	Mechanical Engineering
Licensure 01	1997	Engineering Board of Rome	Mechanical Engineering
PhD	2001	Sapienza University of Rome	Ing-Ind 09 – Energy and Environment

Between 1997-2000, Andrea Micangeli obtained the PhD in "Energy and Environmental Technologies for Development" on 2nd of April 2001, dedicated to: Development, assessment, and validation of new modelling solutions for Solar Thermal Device, Water Treatment Plants, Micro Hydro

Part III – Appointments

2019	2021	Sapienza University of Rome	ING-IND O9 Classes Lecturer
2017	2021	State University of New York	Adjunct Associate Professor
2013	2016	Sapienza University	RTDA Temporary Researcher
2009	2012	Sapienza University	RTDA Temporary Researcher
2005	2007	Sapienza University	Post Doc Grant
2003	2005	Sapienza University	Post Doc Grant

Postdoctoral Research Scientist, RTDA – 2009-2016 at DIMA, Sapienza University of Rome

2009-2013 NG-IND/09 RTDA – DIMA – Studio di dispositivi Solari e Gassificazione per Mini Grid Multisource, Wind Vertical Axial – (Eolia), Solar Thermal (Pleion), Microbial Fuel Cell.

2013-2016 ING-IND/09 RTDA – DIMA – Analisi Numerica di Mini Grid Optimization PV-Wind- Hydro, Design and optimization of a new generation of rural mini grids, Development of machine-learning techniques for Mini Grid Optimization, Vanadium Storage Systems (Absolute Energy) EEP European Project

Postdoctoral Research Scientist (Assegnista di Ricerca), 2001-2009 at DIMA Sapienza University of Rome2001-2003ING-IND/09 Numerical Analysis of Solar Integration in the Energy Demand of Penitentiaries2003-2005ING-IND/09 Optimisation of Integrated Solar Storage Devices with Mediterranean case studies2005-2007ING-IND/09 Innovation in Mini Grids and Energy Communities with cases in the Middle East2007-2009ING-IND/09 Energy Systems and OSEC Electrolysis Systems in International Emergencies

III B – Other Appointments

Start:	Entities :	Location:	Assignment:
2020	GCSP EU Scholars	EU	Director
2021	Associate Professor Qualification	Italy	Ministry of University
2019	National Academy of Engineering	USA	GCSP Review Committee - Member
2018	SUNY, MIT, Columba NYC et Al.	EU	Field Studies4 Mini Grid Optimization-Coordinator
2017	SUNY - State University New York	USA	Adjunct Associate - Professor
2018	Strathmore University	Africa	Board member – Adjunct Professor
2017	RES4Africa -Enel Foundation	Italy	Micro Grid Academy Scientific Coordinator

Teaching experience

Year Institution Lecture/Course

2019-2021-Sapienza DIMA (Professor)-Energy Systems 6 CFU

2015-2017-Sapienza DIMA (Professor)-Renewable Energy System Design 6 CFU 2013-2018-Columbia NYC (Lecturer)-Engineering for Developing Communities CIEE E3260 2014-2015-Hawaiian Pacific University – Seminar on Sustainable Dev. Engineering in Emergencies 2014-2015-Hawaiian Pacific University - Seminar on Sustainable Technologies in Development 2009-2014-Sapienza Mechanical Eng. / Psychology & Medicine (Cod. 1011154) Ing-Ind/09 2000-2014-Sapienza CIRPS DIMA - II level Master Module: Energy & Environment 2010-2011-Sapienza MAE Makerere Uni Uganda "Renewable Energies" Master Phil. 2012-2015-Cambridge University - UK -Lectures at Engineering for Sustainable Development - Mphil 2010-2013-Italian Foreign Affair - Istituto Italo Latino Americano-"Curso Energías Renovables" High Education 2000-2012-Sapienza CIRPS "Design for International Cooperation" Master Phil. 2005-2012-Milan Polytechnic -"Renewable Energy and Energy Saving RIDEF" M.Phil. 2012-2013-Latin American Italy Institute MAE "Renewable Energies in International Cooperation" M.Phil. 2012-2013-Universidad Nacional Paraguay - High Education Course "Solar Thermal Energy", 2005-2012-Milan Polytechnic – ITACA-" Solar Thermal Energy RIDEF" M.Phil. 1999-2000-Sapienza High Education Course "Design for Cooperation and Sustainability" 2009-2012-Politecnico di Milano – BEST-"Hydroelectric RIDEF" Master Phil. 2001-2009-Sapienza "Emergency Engineering " Master Phil.

Courses Held at Sapienza University of Rome - 2001-2021

- 1. Ingegneria Energetica L-9 1036591 Sistemi Energetici- Modulo I
- 2. Ingegneria Energetica L-9 1036591 Sistemi Energetici- Modulo II
- 3. Ingegneria Energetica Lm-30 Aaf1773 Renewable Energy System Design
- 4. Scienze Della Cooperazione Internazionale Lm-811041566 Innovative Technologies and Sustainability
- 5. Ingegneria Energetica Lm-30 Aaf1550 Laboratorio di Progettazione Di Sistemi Energetici a Fonte Rinnovabile
- 6. Ingegneria Energetica Lm-30 1022070 Management Dell' Energia- Mod I
- 7. Elaborazione Dell'informazione [Ls (Dm 509/99)] 58/S1001938 Tecnologie per L'autonomia e L'ambiente
- 8. Elaborazione Dell'informazione [Ls (Dm 509/99)] 58/S1011154 Tecnologie Assistive per le Disabilita'
- 9. Ingegneria Meccanica 26020 Lm-331021816 Interazione Macchine Ambiente
- 10. Ingegneria Energetica 15226 L-91022002 Sistemi Energetici