

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name **CARMELINA COSMI**
Address **CONSIGLIO NAZIONALE DELLE RICERCHE- ISTITUTO DI METODOLOGIE PER L'ANALISI
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E-mail [REDACTED]
Nationality [REDACTED]
Date of Birth [REDACTED]
Gender **Female**

WORK EXPERIENCE

- Dates (from - to) **March 1998 - today**
- Name and address of the employer **Institute of Methodologies for Environmental Analysis (IMAA) of the National Research Council of Italy (CNR) – Tito Scalo (PZ), Italy**
- Type of business or sector
- Occupation or position held **Researcher**
 - Main activities and responsibilities **Head of the Energy Modelling and Climate Planning (EMCP) Research Unit**

- Dates (from - to) **October 1993 – February 1998**
- Name and address of the employer **Ministry of Public Education**
- Type of business or sector
- Occupation or position held **Full Professor – High School**
 - Main activities and responsibilities **Physics and Laboratory teacher**

EDUCATION AND TRAINING

- Dates (from - to) **1994 – 1997**

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

Doctoral Consortium of the Universities of Florence, Pisa, Genoa and Basilicata

Environmental planning as a framework tool for monitoring and interventions on the territory:

Doctorate in Methods and Technologies for Environmental Monitoring - – Curriculum: Modelling for Monitoring and for the Environment” (X Cycle)

- Dates (from - to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

October 1989 – September 1991

CNR, National Committee for Physical Sciences

- Dates (from - to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
Mark/Grade

Two-year Scholarship

1978 - 1988

University of Naples – Federico II

Degree thesis aimed at defining a method for evaluating the relative weights of structural and functional constraints on a genome

**M.Sc. Laurea Degree in Physics
105/110**

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

OTHER LANGUAGES

ITALIAN

ENGLISH (C1)

FRENCH (A2)

SCIENTIFIC SKILLS AND COMPETENCES

- Energy systems modelling and scenario analysis, Energy-Environmental Sustainability, Policy Assessment, Smart Governance, Living Labs, Education
- Organization and Communication at national and international congresses (more than 50 communications).
- Lecturer in advanced training courses since 2001

RELEVANT ROLES AND COMPETENCES

- **Head of the Energy Modelling and Climate Planning (EMCP) Research Unit** since 2001.
- **Project Manager, Work Package Leader and thematic expert in more than 20 international, national and regional research projects** (Horizon Funds, EU FP7, EU FP6, IEE, Interreg, SEE, LIFE, ERDF, MISE, MIUR) among which:

- **2022 – 2024 (ongoing): TECsPRO “Piattaforma integrata IoT di nuove TECnologie per la gestione intelligente e sostenibile**

degli ambienti di lavoro e del ciclo PRODuttivo (TECsPRO)”

Funding Body: Basilicata Region ERDF OP 2014-2020 - **Role: CNR-IMAA Project Manager**

- **2021- 2025 (ongoing): IBIS-ECO** “IoT-based Building Information System for Energy Efficiency & Comfort” Funding Body: Basilicata Region ERDF OP 2014-2020 **Role: CNR-IMAA Principal Investigator** (<https://www.ibiseco.it/>)
- **2020 – 2024 (ongoing) Thematic Expert in the Policy Advisory Group** of the EU Horizon 2020 project REFERENCE (<https://refereetool.eu/policy-advisory-group/>)
- **2019-2022 Interreg MED Project Efficient Buildings City Partnership Potenza (Italy) and Mostaganem (Algeria) Partnership** **Role: External Expert** (Support to the dissemination, transferring and peer-to-peer exchange of good practices) (<https://efficient-buildings.interreg-med.eu/our-activities/city-partnership/>)
- **2021-2022: PrioritEE PLUS** “Transferring the PrioritEE Decision Support Tool to public authorities in the MED area”. Funding body: The Interreg MED Programme. **Role: CNR-IMAA Project Manager** (<https://prioritee.interreg-med.eu/>)
- **2017-2019: PrioritEE** “Prioritise energy efficiency (EE) measures in public buildings: a decision support tool for regional and local public authorities”. Funding body: The Interreg MED Programme. **Role: CNR-IMAA Communication Manager** (<https://prioritee.interreg-med.eu/>)
- **2012-2014: RENERGY** “Regional Strategies for Energy Conscious Communities”. Funding body: The INTERREG IVC Programme **Role: CNR-IMAA Principal Investigator, Coordinator of Thematic Pillar Policy Making, Support to project management and events organisation** (<https://100comuni.provincia.potenza.it/main/page/1/972/1/2022/RENERGY>)
- **2004–2010 IP NEEDS** New Energy Externalities Development for Sustainability Funding Body: EU VI FP; **Role: Support to the coordination of Research Stream 2a - CNR-IMAA Principal Investigator** (<https://cordis.europa.eu/project/id/502687>)
- **2006-2009: IEE RES2020** “Monitoring & evaluation of RES-E Directive implementation in EU25 & policy recommendations” Funding Body: EU - Intelligent Energy Europe; **Role: CNR-IMAA Principal Investigator**
- **2007–2009 LIFE CSBTD** Capacity Building for Sustainable Tourism Development LIFE 06/ TCY/ AL / 000202 **Role: Participant - Responsible of the design of the guidelines for the implementation of sustainable tourism policies**
- **2012-2018: "SMART Basilicata"**. Funding body: Italian Ministry of Education, University and Research (MIUR). **Role: Coordinator of OR5 Smart Participation**

Other roles

- **From 2018 to date: Representative of the National Research Council within the Executive Council of the ETS Basilicata Energy Cluster** since 2018 participating since November 22 to the working group of the “EDIH – Heritage Smart Lab” project (EU call: DIGITAL - 2021 – EDIH -01 - European Digital Innovation Hubs - DIGITAL-2021-EDIH-INITIAL-01-DIGITAL-SIMPLE)

- **From 2015 to date: Thematic expert** for CNR in the **Urban Europe Research Alliance (UERA)** of JPI Urban Europe on sustainable and economically livable urban areas – TWG4 – Governance, Participation, and Equity; TWG5 – Energy Transition and Smart City
- **Tutor** in graduate and undergraduate training placements and fellowships
- **Supervisor** in doctoral, master and degree theses

Activities as evaluator and rapporteur:

- Call for proposals **HORIZON-CL5-2022-D3-01** “Supporting the action of consumers in the energy market and guide them to act as prosumers, communities and other active forms of active participation in the energy activities” (evaluator)
- **COST (Action TD1207** - Mathematical Optimization in the Decision Support Systems for Efficient and Robust Energy Networks)
- **MIUR SIR 2014** (n. 3 Projects)
- **MISE Call - Sustainable Growth Fund** (Law Decree 22 June 2012 n.83 converted, with amendments, by law 7 August 2012, n.134) (n. 1 project)

Editorial activity

- **Member of Editorial board of the UCL OPEN:** Environment, open access scientific journal since October 2020
- **Guest Editor of Special Issue “Transformation of Energy Systems: From the Perspective of Climate and Energy Policies”** Energies (ISSN 1996-1073). Section "C: Energy Economics and Policy" https://www.mdpi.com/journal/energies/special_issues/climateenergy_policies
- **Co-Guest Editor of the Special Issue "Climate Change Mitigation Strategies"** International Journal of Environmental Research and Public Health (ISSN 1660-4601) https://www.mdpi.com/journal/ijerph/special_issues/climate_change_mitigation
- **Reviewer of articles for many top list ISI journals** since 2009

PUBLICATION INDEXES
(SCOPUS)

- **NUMBER OF PUBLICATIONS: 48**
- **TOTAL NUMBER OF CITATIONS: 575**
- **H-INDEX: 15**

SELECTED PUBLICATIONS

1. Optimization Modelling of the Decarbonization Scenario of the Total Energy System of Kazakhstan until 2060 N Zhakiyev, A Khamzina, S Zhakiyeva, R De Miglio, A Bakdolotov, **C. Cosmi** *Energies* 16 (13), 5142 <https://www.mdpi.com/1996-1073/16/13/5142>
2. M.M. Tortorella, S. Di Leo S, **C. Cosmi**, P. Fortes, M. Viccaro, M. Cozzi, F. Pietrapertosa, M. Salvia, S. Romano A Methodological Integrated Approach to Analyse Climate Change Effects in Agri-Food Sector: The TIMES Water-Energy-Food Module *Int J. Environ. Res. Public Health* Volume17 Issue21 DOI10.3390/ijerph17217703 2021
3. M. Salvia, M. Proto, A. Pepe, M. Giordano, N. Afflitto, G. Sarricchio, Senatro Di Leo, **C. Cosmi**. An educational awareness program to reduce energy consumption in schools. *Journal of Cleaner Production*. Volume 278, <https://doi.org/10.1016/j.jclepro.2020.123949> 2021
4. S. Di Leo, F. Pietrapertosa, M. Salvia and **C. Cosmi**. Contribution of the Basilicata region to decarbonisation of the energy system: results of a scenario analysis. *Renewable and Sustainable Energy Reviews* 138:110544. <https://doi.org/10.1016/j.rser.2020.110544> 2021
5. M. Salvia, S. G. Simoes, M. Herrando, M. Čavar, **C. Cosmi**, F. Pietrapertosa, J. P. Gouveia, N. Fueyo, A. Gómez, K. Papadopoulou, E. Taxeri, K. Rajić, S. Di Leo. Improving policy making and strategic planning competences of public authorities in the energy management of MPBs: the PrioritEE toolbox and its application in five Mediterranean areas. *Renewable and Sustainable Energy Reviews* 135 110106. <https://doi.org/10.1016/j.rser.2020.110106> 2021
6. S. Di Leo, P. Caramuta, P. Curci, **C. Cosmi** Regression analysis for energy demand projection: An application to TIMES-Basilicata and TIMES-Italy *Energy* 196 117058 <https://biblioproxy.cnr.it:2481/10.1016/j.energy.2020.117058> 2020
7. 196 117058 <https://biblioproxy.cnr.it:2481/10.1016/j.energy.2020.117058> 2020
8. F. Pietrapertosa, V. Khokhlov, M. Salvia, **C. Cosmi**. Climate change adaptation policies and plans: a survey in 11 South East European countries. *Renewable and Sustainable Energy Reviews*. Volume 81, Part 2, pp. 3041-3050. 2018
9. Di Leo, S.; **Cosmi, C.**; Ragosta, M. An application of multivariate statistical techniques to partial equilibrium models outputs: The analysis of the NEEDS-TIMES Pan European model results *Renewable and Sustainable Energy Reviews* (Volume: 49 Pages: 108-120 (DOI: 10.1016/j.rser.2015.04.099) 2015
10. **Cosmi, C.**; Dvarioniene, J; Marques, I; Di Leo, S; Gecevicius, G; Gurauskiene, I; Mendes, G; Selada, C A holistic approach to sustainable energy development at regional level: The RENERGY self-assessment methodology *Renewable and Sustainable Energy Reviews* (Volume: 49 Pages: 693-707 DOI: 10.1016/j.rser.2015.04.094) 2015
11. Dvarioniene, J.; Gurauskiene, I.; Gecevicius, G., Trummer, D. R.; Selada, C.; Marques, I.; **Cosmi, C.** Stakeholders involvement for energy conscious communities: The Energy Labs experience in 10 European communities *Renewable Energy* Volume: 75 Pages: 512-518 DOI: 10.1016/j.renene.2014.10.017 2015
12. S. Di Leo, F. Pietrapertosa, S. Loperte, M. Salvia, **C. Cosmi** Energy systems modelling to support key strategic decisions in energy and climate change at regional scale. *Renewable and Sustainable Energy Reviews*. Volume: 42 Pages: 394-414. DOI: 10.1016/j.rser.2014.10.031. 2015

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

October 26th, 2023

Carmelina Cosmi