

## ANDREA RAGGI – ACADEMIC CURRICULUM

### EDUCATION AND ACADEMIC POSITIONS

Prof. Andrea Raggi graduated cum.laude in Economics and Business on 27 February 1988 at the University of Bologna, Italy, with a thesis on decomposition analysis models applied to energy consumption in the Italian economy, supervised by Professors Giancarlo Barbiroli and Benito Romeo Donini.

In 1989 he won an Assistant Professor position in Commodity Science at the Faculty of Economics and Business of the University of Bologna. His appointment became effective on 15 September 1989. From that date, he was affiliated with the Institute of Commodity Science (which, from 1 January 1995, was incorporated into the Department of Business Disciplines as the “Technology and Resource Valorisation Area”).

In 1998 he won a national competition for Associate Professor in Commodity Science and was appointed to this position by the Faculty of Economics at the University “G. d’Annunzio” of Chieti-Pescara.

Since 1 February 2005 he has been Full Professor in Commodity Science (Academic Discipline: ECON-10/A, formerly SECS-P/13) at the same university, affiliated with the Department of Business, Statistical, Technological and Environmental Sciences — merged into the Department of Economic Studies in February 2011.

### RESEARCH ACTIVITY

Prof. Raggi’s scientific work can be grouped under the following main research areas:

- **Study of environmental resources and their interactions with economic and production activities**, with a particular focus on:
  - Environmental quality indices
  - Waste management
  - Sustainability of production systems
  - Methodological and applied studies on Life-cycle-based methods and tools
  - Industrial ecology
  - Circular economy
- Techno-economic analyses of energy resources and systems
- Analysis of the effects of technological dynamics on production and on the economic system
- Colorimetric information as a factor of product quality

## **Coordination and participation in research groups and projects (selection)**

- **From 2003 to 2006**, he was responsible for a cooperation agreement between the University “G. d’Annunzio” and the University of Tokyo (Japan), concerning collaborative research on the development and implementation of integrated quality–environment assessment and design tools in the service sector.
- **From 2004 to 2006**, he was coordinator and local unit leader for the Department of Business, Statistical, Technological and Environmental Sciences of the University “G. d’Annunzio” within an international research project on industrial ecology in the tanning sector, co-funded by the EU (CICLE.PELL.Project, Regional Framework Operation ECOSIND, Interreg IIIc South Programme).
- **From 1 October 2005 to 31 October 2006**, he served as supervisor of the research fellowship »Application.of.Industrial.Ecology.concepts.in.the.agro\_zootechnical.sector« funded by the Department of Business, Statistical, Technological and Environmental Sciences of the University “G. d’Annunzio”.
- **In 2007**, he participated in the research project »Innovative.Services.Supporting.Environmental.Improvement«, coordinated by the Sangro-Aventino Consortium Company with the support of the “Mario Negri Sud” research institute. His contribution focused on a preliminary study assessing the material and energy flows of the Sangro-Aventino industrial estate (Chieti province, Italy) in a perspective of potential industrial symbiosis.
- **From 2007 to 2016**, he was Coordinator of the Working Group »LCA.of.Tourism.Services« within the Italian Life Cycle Assessment Network, of which he remains a member.
- **Since 2007**, he has been a member of the Working Group »Food.and.Agro\_industrial.LCA« within the Italian Life Cycle Assessment Network.
- **In 2009 and 2010**, he participated in the intervention project »Pilot.Initiatives.for.Integrated.Environmental.Management«, coordinated by the Sangro-Aventino Consortium Company, aimed at testing pilot actions for the study and valorisation of industrial waste and residue flows in line with the principles of Industrial Ecology.
- **From 2010 to 2012**, he was coordinator and local unit leader for the Department of Business, Statistical, Technological and Environmental Sciences (later Department of Economic Studies) of the University “G. d’Annunzio” within the research project of national interest (PRIN) »Improving.the.sustainability.and.competitiveness.of.Italian.agri\_food.supply.chains.through.innovative.environmental.management.tools« (PRIN No. 2008TXFBYT), co-funded by the Italian Ministry of University.
- **From 2010 to 2012**, he supervised the research fellowship »Methodological.developments.related.to.scenario.identification.and.optimisation.in.Life.Cycle.

Assessment.applied.to.integrated.waste.management« funded by the same Department.

- **From 2011 to 2012**, he acted as reviewer for the research project »Development.of.a.model.for.applying.industrial.ecology.principles.and.tools.to.a.broad.territorial.area«, carried out by a research group of the Ionic Department at the University of Bari, Italy.
- **From 1 September 2014 to 31 July 2019**, he supervised the research fellowship »Simplified.LCA.approaches.and.tools.for.the.evaluation.and.(re)design.of.product.systems.in.agri\_food.SMEs«, funded by the Department of Economic Studies of the University “G. d’Annunzio”.
- **From 1 September to 31 December 2016**, he supervised a research grant on »Development.of.economic- environmental.optimisation.models.for.integrated.waste.management« .
- **From 1 November 2017 to February 2020**, he supervised the research fellowship »Potential.and.perspectives.of.integrating.Industrial.Ecology.approaches.and.tools.with.Lean.Production.principles.to.achieve»lean.and.clean"production.in.supply.chains? networks.and.local.production.systems« at the University “G. d’Annunzio”.
- **From 1 September 2018 to 31 August 2021**, he supervised the research fellowship »Measuring.Circular.Economy.sustainability;methodological.and.practical.issues«, funded within the international H2020 project CRESTING.-.Circular.Economy; Sustainability.Implications.and.Guiding.Progress.
- **From 2018 to 2021**, he was the leader of the local research unit of the Department of Economic Studies of the University “G. d’Annunzio” within the H2020 CRESTING project, where he coordinated Work Package 5: “Measuring the impacts of circularity”.
- **From 2020 to 2024**, he was a member of the local research unit of the Department of Economic Studies within the research project of national interest »Promoting. Agri\_Food.Sustainability;Development.of.an.Italian.Life.Cycle.Inventory.Database.of. Agri\_Food.Products.(ILCIDAF)« (PRIN No. 2017EC9WF2\_002), co-funded by the Italian Ministry of University.
- **From May 2020 to May 2021**, he supervised a research grant on »Industrial.Ecology. approaches.and.tools.for.studying.local.systems.from.a.Circular.Economy. perspective« .
- **From July to December 2021**, he supervised a research grant on »Implementation.of. Life.Cycle.Thinking.in.accommodation.facilities« .
- **From May 2023 to April 2024**, he supervised the research fellowship »Methodological. contextualisation.of.Life.Cycle.Assessment.for.organisations.in.the.packaging.sector« at the University “G. d’Annunzio”.

- **From October 2023 to February 2026**, he was Principal Investigator of the research project of national interest (PRIN) »Towards.Circular.and.Sustainable.Agri\_food.Systems;Metrics.for.Assessment.(CIRCULAGRIS)« (PRIN No. 2022JNNJJX), co-funded by the EU and the Italian Ministry of University.
- **From October 2024 to January 2025**, he supervised a research grant on »Assessing.the.sustainability.of.circular.practices;methodological.aspects« .
- **From January 2025 to November 2025**, he supervised the research fellowship »Metrics.for.assessing.circularity.and.sustainability.in.the.wine.sector« , funded within the PRIN project No. 2022JNNJJX.
- He has also supervised several PhD projects concerning Life Cycle Management, Industrial Ecology and the Circular Economy.

### TEACHING ACTIVITY

- 1993–94 to 1996–97: Courses on Advanced.Instruments.for.Implementing.Environmental.Management and Environmental.Impact.Assessment.and.Auditing in EU-funded TEMPUS and MED-CAMPUS master programmes (Ankara, Turkey; Sofia, Bulgaria).
- 1995–96 to 1997–98: Module Interactions.between.energy.systems?demand.and.the.environment within the course Energy Technology.and.Economics.(Univ. of Bologna).
- From 1998 to present: Lecturer of various courses at the University “G. d’Annunzio”, including:
  - Technology of Production Cycles
  - Quality Management: Theory and Techniques
  - Energy Technology and Economics
  - Environmental Impact Assessment of Processes and Products
  - Industrial Ecology
  - Life Cycle Assessment for Business (in English)
- 2000 to present: Visiting lecturer in several European universities within EU-funded Socrates-Erasmus/LLP programmes (Suceava, Romania; Santander, Spain; Alicante, Spain, Kaiserslautern, Germany; Sofia, Bulgaria, The Azores, Portugal).
- 2002–2006: Teaching modules on Quality Management within the Master Programme “Building Manager” (Architecture Faculty, Univ. “G. d’Annunzio”).

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### OTHER PROFESSIONAL ACTIVITIES

- Member of:
  - Accademia Italiana di Scienze Merceologiche (AISME) (Italian Academy of Commodity Sciences) (Board Member 2018–2024)
  - Associazione Rete Italiana LCA (Italian Life Cycle Assessment Network Association) (Founding Member and Board Member)
  - International Sustainable Development Research Society (ISDRS)
- 2001–2005: National coordinator of the Colorimetry and Reflectoscopy Working Group of the Italian Society of Optics and Photonics (SIOF).
- 2001–2004: Member and Chair of the Quality Self-Assessment Group of the Degree Programme in Environmental Economics (CampusOne Project – Conference of the Rectors of Italian Universities - CRUI).
- 2002–2004: Organiser of professional modules on Environmental Management Strategies, Industrial Ecology tools, and Eco-design (CampusOne Project – CRUI).
- Organiser and Chair of several annual conferences of SIOF and of the Italian LCA Network.
- 2004–2010: Delegate for international relations, Faculty of Economics, Univ. “G. d’Annunzio”.
- 2006–2010: President of the Master’s Degree in Industrial Ecology.
- 2010–2013: President of the Bachelor’s Degree in Business Economics.
- 2011–2014: Coordinator of the PhD programme Innovation?Accounting?Environment. and.Finance.
- 2011–2016: Coordinator of the PhD programme Economics.and.Business.
- 2013–2021: Coordinator of the PhD programme Business?Institutions?Markets.
- 2016–2018: Member of the National Scientific Qualification Committee for the Academic Discipline (SSD) SECS-P/13 – Commodity Science.
- Since 2021: Associate Editor, Cleaner.Production.Letters.
- 2024: Organizer and Chair of the 18<sup>th</sup> Conference of the Italian LCA Network Association (Pescara, Italy, 3–5 July).
- Since 2024: Member of WP7 “Sustainable Development” of the INGENIUM European University Alliance project.
- Examiner in several PhD committees (Ecole Polytechnique de Montréal, Canada: 2012, Université de Technologie de Troyes, France: 2015, 2019, Università degli Studi di Bari Aldo Moro, Italy: 2020, 2024, Universidade Nova de Lisboa, Portugal: 2022, Università

degli Studi di Messina, Italy: 2024, Chalmers University of Technology, Sweden: 2025, Università degli Studi di Bologna, Italy: 2026).

- Chair of the Scientific Committee of multiple editions of the “Young LCA Researchers Award”.
- Member of several scientific committees of national and international conferences (Italian LCA Network Association, International Sustainable Development Research Society, etc.).
- Reviewer for several international scientific journals.

**Date:** 28 March 2026