# University Academic Curriculum Vitae

**Personal information**

Name: Roberto Tognetti
E-Mail: Roberto.Tognetti@unibz.it

**Education since leaving school**

- Year and title of first degree/post-graduate; (and university)
  19.02.1988, ***Laurea*** in Forest sciences (BSc+MSc equivalent), *summa cum laude* - Prove di discendenza e confronti clonali in *Alnus cordata* Loisel.; Università di Firenze
- Year, subject area, and title of Professional Habilitation
  November 1990, professional habilitation "Agronomist and Forest Manager" (**Dottore agronomo e forestale**) Università di Firenze (n. 325 from 14.03.1991, *Ordine dei Dottori Agronomi e dei Dottori Forestali delle Province di Pisa - Lucca - Massa Carrara*)
- Year, subject area, and title of PhD (and university)
  17.12.1999, **PhD** in Botany, *plenum ac perfectum* - The impact of long-term elevated $CO_2$ concentrations on the water relations, stomatal behaviour and hydraulic architecture of shrubs, and stem growth of trees in a Mediterranean forest ecosystem; Trinity College Dublin (Ireland)
- Year, subject area, and title of Scientific Habilitation
  2014, National Scientific Habilitation 2012, **habilitation** Full professor in *Scienze e Tecnologie dei Sistemi Arborei e Forestali* (07/B2)
  2018, National Scientific Habilitation 2016, **habilitation** Full professor in *Botanica* (05/A1)

**Present position**

- Title of appointment
  Professor of Forest ecology and management (settore scientifico-disciplinare Assestamento Forestale e Selvicoltura - AGR05)
- Start of appointment
  01.12.2023 (D.R. 1742 of 17.11.2023)
- Level of appointment
  *Professore prima fascia* / **Full professor** (as defined by Italian law n. 240/2010, art. 24, paragraph 6)
- Employer
  Free University of Bozen/Bolzano – Faculty of Agricultural, Environmental and Food Sciences
- Brief description of responsibilities (teaching and research)
  The teaching activities are centred around forest ecology and management courses, and I also serve as the chair for the master's degree program in Environmental Management of Mountain Areas (EMMA) at the Free University of Bozen/Bolzano. Research interests primarily focus on managing national and European projects. This entails studying the interactions between climate change, environmental disturbance, and functional ecology, as well as monitoring ecosystem processes and integrating ecological indicators. These efforts aim to provide support for future-oriented adaptive strategies and policy trajectories concerning the sustainable governance of forest resources.

**Career experience**

Chronological list of all previous employments (each with job title, starting and finishing dates, level, employer, responsibilities)

| From / to | Job title | Name of academic Institution | Academic level | Responsibilities |
|---|---|---|---|---|
| From 01.11.2015 to 30.11.2023 | Full professor (D.R. 981 of 30.10.2015) | University of Molise – Department of Agricultural, Environmental and Food Sciences | PhD | Teaching forest ecology and management; research on forest disturbances and ecosystem processes |
| From 1.11.2005 to 31.10.2015 | Associate professor (D.R. 1992 of 26.10.2005) | Università del Molise - Dipartimento di Bioscienze e Territorio | PhD | Teaching forest ecology and management; research on forest disturbances and ecosystem processes |
| From 17.01.2000 to 31.10.2005 | Assistant professor (D.R. 39 of 05.01.2000) | Università del Molise - Dipartimento di Scienze Animali, Vegetali e dell'Ambiente | PhD | Teaching dry farming and nursery techniques; research on plat water stress and irrigation techniques |
| From 22.07.1999 to 14.01.2000 | Postdoctoral fellow (D.R. 1/907 of 29.06.1999) | Università di Pisa - Dipartimento di Coltivazione e Difesa delle Specie Legnose | PhD | Research on vegetation dynamics in Mediterranean environments |
| From 01.06.1998 to 31.05.1999 | Research assistant (call 201.06.32 of 12.06.1996) | CNR-IATA | PhD | Research on global change biology |
| From 15.05.1997 to 14.05.1998 | Research assistant (call 201.06.32 of 12.06.1996, renewal) | CNR-IATA | PhD | Research on global change biology |
| From 15.01.1997 to 14.03.1997 | NATO-CNR Senior visiting scientist (call 217.29/16 of 16.05.1996) | University of Florida - School of Forest Resources and Conservation | PhD | Research on forest ecophysiology |
| From 16.11.1994 to 15.11.1995 | RAISA-CNR visiting scientist (call 203.12.20 of 19.02.1993) | University of Florida School of Forest Resources and Conservation | PhD | Research on forest ecophysiology |
| From 01.12.1993 | Research assistant (call | Accademia dei Georgofili - | PhD | Research on tree water relations in |

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| to 15.11.1994 | CEE-EV5V-CT92-0093 of 23.11.1993) | CeSIA | | relation to climate change |
| From 01.10.1992 to 31.09.1993 | Research assistant (call 201.16.3 of 17.12.1990, renewal) | CNR-IMGPF | Master | Research on tree physiology and forest tree breeding |
| From 01.09.1991 to 31.08.1992 | Research assistant (call 201.16.3 of 17.12.1990) | CNR-IMGPF | Master | Research on tree physiology and forest tree breeding |
| From 01.10.1990 to 31.08.1991 | Research assistant (call 201.16.1 of 16.12.1989) | CNR-IMGPF | Master | Research on tree physiology and forest tree breeding |

**Experience in academic teaching**

Title of courses given *last 10 years*, subject area, academic level

- *Forestry* (6 CFU), *Bachelor* (L-25) in Sustainable Agriculture and Forestry in Mountain Environments (Major Management of Mountain Forests, unibz)
- *Wood anatomy and productive forestry* (3 CFU), *Professional Bachelor* (L-P03) in Wood Technology (unibz)
- *Tree physiology and climate change* (3 CFU), *Master* (LM-73) in Environmental Management of Mountain Areas (double degree program unibz-uibk)
- *Protection forestry* (6 CFU), *Master* (LM-73) in Environmental Management of Mountain Areas (double degree program unibz-uibk)
- *Ecologia forestale ed ecofisiologia dei sistemi arborei* (8 CFU), *Laurea* (L-25) in Scienze Forestali e Ambientali (unimol)
- *Geografia forestale e selvicoltura speciale* (6 CFU), *Laurea magistrale* (LM-73) in Scienze e Tecnologie Forestali e Ambientali (unimol)
- *Forest management, dynamics, and disturbances* (6 CFU), *Master* (LM-73) in Forest and Environmental Sciences and Technologies (curriculum Mountain Forests and Landscapes, inter-university unimol-unitus)

  Since 2000, I have been teaching various courses related to agricultural and forest sciences, including: nursery techniques, dry farming, irrigation techniques, general arboriculture, forest ecology, silvicultural systems

Supervisor of the following PhD students and theses

- Alessio Rozzoni, ongoing, (Free University of Bolzano)
- Emanuela Patriarca, (Free University of Bolzano)
- Irene Menegaldo, ongoing, (Free University of Bolzano)
- Diana Alfieri, ongoing, *Developing a straightforward and user-friendly method to assess Climate-Smart Forestry* (co-supervising, University of Molise)
- Concetta Lisella, 2025, *Le foreste miste a supporto della Climate-Smart Forestry* (University of Molise)
- Anna Bortolazzi, 2021, *Nitrogen deposition effects on biogeochemical cycles in a boreal and a temperate forest* (co-supervising, Free University of Bolzano)
- Soraya Versace, 2020, *Influenza delle variazioni climatiche e delle interazioni competitive sulla produttività di foreste montane in Italia* (co-supervising, University of Molise and Edmund Mach)

- Stefania Di Lella, 2019, *Fattori antropici e biologici che influenzano i processi di decomposizione del legno morto in specie forestali* (co-supervising, University of Molise and Edmund Mach Foundation)
- Chiara Calderaro, 2019, Impacts of climate changes and disturbances on *Fagus sylvatica* L. and *Pinus mugo* Turra subsp. mugo in Majella National Park, Central Apennine (co-supervising, University of Molise)
- Silvia Pioli, 2018, *Habitat preferences of wood-inhabiting fungal communities across different biomes: A conservation perspective* (co-supervising, Free University of Bolzano)
- Annalisa Perone, 2017, *Monitoring environmental quality with trees - A multiscale approach towards the implementation of Nature-Based Solution in urban ecosystems* (co-supervising, University of Molise)
- Emanuele Conte, 2017, *Dinamiche di crescita, sensitività climatica ed efficienza d'uso dell'acqua in specie forestali* (University of Molise)
- Giulia Fravolini, 2017, *Effects of climate on dead wood decomposition dynamics and interaction with the soil in Apennine and Alpine forests* (co-supervising, University of Tuscia)
- Giovanni Marino, 2014, *Detection of the effects of water stress on woody plants* (University of Molise)
- Caterina Palombo, 2013, *The influence of land-use and climatic changes on mountain pine (*Pinus mugo *Turra spp.* mugo*) ecotone dynamics at its southern range margin on the Majella massif, Central Apennines* (University of Molise)
- Danilo Marandola, 2012, *Le risorse forestali nei processi di sviluppo rurale del territorio montano italiano: esperienze, strumenti e potenzialità in tre casi studio* (University of Molise)
- Claudia Cocozza, 2009, *Poplar clones under environmental constraints: heavy metal, water stress and low temperatures* (University of Molise)

**Other academic duties and third mission**

Degree course director

- 2008-2011, *Laurea* I and II level (BSc+MSc) in Forest and environmental sciences and Forest and environmental sciences and technologies (Università del Molise, D.R. 1131 of 14.10.2010)
- 11.09.2015-30.11.2023, *Laurea magistrale* (MSc) in Forest and environmental sciences and technologies (Università del Molise, D.R. 746 of 09.09.2015 and D.R. 310 of 18.03.2022)
- 12.12.2023-present, Master (MSc) in Master in environmental management of mountain areas – LM-73 (Libera Università di Bozen-Bolzano, D.R. 144/2023 of 12.12.2023)

National habilitation commission

- 2018, Member of ***national habilitation commission*** - *Commissione nazionale per il conferimento dell'Abilitazione Scientifica Nazionale (ASN) alle funzioni di professore universitario di prima e seconda fascia nel settore concorsuale 07/B2-Scienze e Tecnologie dei Sistemi Arborei e Forestali* (Decreto Direttoriale art. 8, comma 1, d.d. n. 1052 del 2018)

PhD scientific committee

- 2004-2013, Difesa e Qualità delle Produzioni Agro-Alimentari e Forestali (Università del Molise)
- 2008-2013, Agrobioscienze (Scuola Sant'anna di Pisa)
- 2010-2013, Management and Conservation Issues in Changing Landscapes (Università del Molise)

- 2011-2013, Scienze Agro-Forestali, delle Tecnologie Agro-Industriali e del Territorio Rurale. I Sistemi Forestali (Università del Molise)
- 2013-2018, Mountain Environment and Agriculture (Agricoltura e Ambiente Montano) (Libera Università di Bolzano)
- 2019-2022, Ecologia e Territorio (Università del Molise)
- 2023-ongoing, Mountain Environment and Agriculture (Agricoltura e Ambiente Montano) (Libera Università di Bolzano)

National appointment
- 2021-ongoing, Member of the scientific board of *Fondazione AlberItalia* (third mission activities)
- 2022-ongoing, Organizer Working Group on Old-Growth Forests, Società Italiana di Selvicoltura ed Ecologia Forestale, SISEF

International appointment
- 2014-2019, Focal point, steering committee European Forestry Commission - Working Party on the Management of Mountain Watersheds (EFC WP MMW, FAO)

Organization of conferences
- 06-11.09.1999, the training school *Monitoraggio, Valutazione, Diagnosi, Ecosistemi Forestali*, LINNÆA ambiente, Rapolano Terme (Italy)
- 09-10.11.2000, convener of *5th International Workshop on Plant Water Relations and Sap Flux Measurements*, CNR-ITATA, Firenze (Italy)
- 29.09.2009 / 03.10.2009, convener of *VII congresso SISEF*, Società Italiana di Selvicoltura e Ecologia Forestale, Pesche (Italy)
- 8-12.05.2011, convener of *8th International Workshop on Sap Flow* (ISHS), Scuola Superiore Sant'Anna, Volterra (Italy)
- 04.11.2014, convener of *First MOUNTFOR PhD – Day*, Free University of Bozen-Bolzano (Italy)
- 22-24.09.2015, convener of *30th session of WP-MMW* (Working Party for the Management of Mountain Watersheds of European Forestry Commission) "Mountain watersheds and ecosystem services: Balancing multiple demands of forest management in head-watersheds and stakeholder training dialogue with experts from the Alpine Convention", Pieve Tesino (Italy)
- 17.10.2016, convener of First meeting of CLIMO – Climate-Smart Forestry in Mountain Regions, COST, Brussels (Belgium)
- 23.11.2016, convener of *2nd MOUNTFOR PhD – Day, "COP 21 and Mountain Land Use in a changing climate"*, Council for Agricultural Research and Agricultural Economy Analysis (CREA), Roma (Italy)
- 06.12.2016, convener of WG meeting CLIMO – Climate-Smart Forestry in Mountain Regions, WSL, Birmensdorf (Switzerland)
- 06-09.02.2017, convener of Kick-off meeting of *CLIMO – Climate-Smart Forestry in Mountain Regions*, Fondazione Edmund Mach (FEM), San Michele all'Adige (Italy)
- 05-19.07.2017, convener of *Sustainable mountain development - 10 years of IPROMO courses – "Environmental and economic issues to enhance mountain sustainability",* Ormea – Pieve Tesino (Italy)
- 23-24.09.2017, convener of WG meeting CLIMO – Climate-Smart Forestry in Mountain Regions, Bulgarian Academy of Science, Sofia (Bulgaria)
- 13-15.02.2018, convener of Joint MC-WG meeting of CLIMO – Climate-Smart Forestry in Mountain Regions, Bulgarian Academy of Science, Sofia (Bulgaria)
- 17-19.09.2018, convener of Plenary Scotland meeting of CLIMO – Climate-

Smart Forestry in Mountain Regions, University of Islands and Highlands, Inverness (UK)
- 10-12.10.2018, convener of Joint PEFOSS-CLIMO conference, University of Sarajevo, Sarajevo (Bosnia-Herzegovina)
- 10-12.10.2018, convener of WG meeting CLIMO – Climate-Smart Forestry in Mountain Regions, INRA, Bordeaux (France)
- 05-06.02.2019, convener of WG meeting CLIMO – Climate-Smart Forestry in Mountain Regions, COST, Brussels (Belgium)
- 26-27.02.2019, convener of CG meeting CLIMO – Climate-Smart Forestry in Mountain Regions, University of Cumbria, Ambleside (UK)
- 01-03.07.2019, convener of the training school *Multiscale monitoring tools for a smart management of mountain forests*, Edmund Mach Foundation (FEM), San Michele all'Adige (Italy)
- 09-11.09.2019, convener of *Workshop on How can forests become climate-smart?*, Technical University in Zvolen, Stará Lesná - High Tatras (Slovakia)
- 04-05.02.2020, convener of WG meeting CLIMO – Climate-Smart Forestry in Mountain Regions, CNR-IBE, San Michele all'Adige (Italy)
- 13-14.02.2020, convener of WG meeting CLIMO – Climate-Smart Forestry in Mountain Regions, CTFC, Solsona (Spain)
- 30-31.01.2021, convener of mixed WG meeting CLIMO – Climate-Smart Forestry in Mountain Regions, TUM, Freising (Germany)
- 15.03.2021, convener of WG meeting CLIMO – Climate-Smart Forestry in Mountain Regions, web meeting
- 30.03.2021, convener of MC and General meeting CLIMO – Climate-Smart Forestry in Mountain Regions, web meeting

<u>Academic evaluation committee</u>
- 2008, RTDa (AGR/06), Università del Molise (D.R. n. 609 of 17.04.2008)
- 2010, RTDa (AGR/05), Università del Molise (D.R. n. 1021 of 17.09.2010)
- 2011, Researcher (n. 4), CNR (Call n. 364-97 of 05.05.2010)
- 2011, Researcher (n. 6), CNR (Call n. 364-96 of 05.11.2010)
- 2016, Associate professor (n.2, AGR/05), Università della Tuscia (D.R. n. 437 of 24.03.2016)
- 2016, Associate professor (AGR/05), Università di Torino (D.R. n. 1430 of 04.05.2016)
- 2016, Associate professor (AGR/05), Università di Torino (D.R. n. 1430 of 04.05.2016)
- 2016, Director of research center, CREA (code DC-FL)
- 2018, RTDa (AGR/05), Libera Università Bolzano (D.R. n. 103 of 12.02.2018)
- 2018, Associate professor (AGR/05), Università di Bari Aldo Moro (D.R. n. 1473 of 31.05.2018)
- 2019, Full professor (AGR/05), Università di Padova (D.R. n. 2104 20.06.2018)
- 2019, RTDa (AGR/05), Università della Basilicata (D.R. n. 293 of 15.07.2019)
- 2019, Full professor (AGR/05), Università di Firenze (D.R. n. 889 of 06.08.2019)
- 2019, RTDa (AGR/05), Università della Tuscia (D.R. n. 709 of 25.09.2019)
- 2020, RTDa (AGR/05), Università di Bari Aldo Moro (D.R. n. 3706 of 11.11.2019)
- 2021, Associate professor (AGR/05), Università di Padova (D.R. n. 2785 of 28.07.2021)
- 2021, Associate professor (AGR/05), Università del Molise (D.R. n. 883 of 06.09.2021)

- 2022, Associate professor (AGR/05), Università della Tuscia (D.R. n. 223 of 10.05.2022)
- 2022, Associate professor (AGR/05), Università di Bologna Alma Mater (D.R. n. 779 of 26.05.2022)
- 2022, Full professor (AGR/05), Università di Udine (D.R. n. 638 of 30.06.2022)
- 2022, Instructor, CNR-IBE (Call n. 367-336 TEC IBE of 15.07.2022)
- 2022, Associate professor (AGR/05), Università di Sassari (D.R. n. 2874 of 26.08.2022)
- 2023, RTDa (AGR/05), Università di Bari Aldo Moro (D.R. n. 243 of 24.01.2023)
- 2023, RTDa (AGR/05), Università di Torino (D.R. n. 198 of 17.01.2023)
- 2023, RTDa (AGR/06), Università del Molise (D.R. n. 803 of 11.07.2023)
- 2023, RTDb (ARG/05), Università di Palermo (D.R. n. 5276 of 31.07.2023)
- 2023, Full professor (AGR/06), Università della Tuscia (D.R. n. 502 of 31.10.2023)
- 2024, RTDa (AGR/05), Università del Molise (D.R. n. 123 of 30.01.2024)
- 2024, Full professor (AGR/05), Università della Campania "Luigi Vanvitelli" (D.R. n. 175357 of 24.10.2024)
- 2025, RTDa (AGRI-03/A), Libera Università di Bolzano (D.R. n. 747 of 26.05.2025)
- 2025, Full professor (AGRI-03/B), Università di Torino (D.R. n. 5341 of 3.06.2025)
- 2025, Contratto di Ricerca (AGRI-03/B), Libera Università di Bolzano (D.R. n. 840 of 19.06.2025)

<u>Admission PhD examination committee</u>
- 2004, Università del Molise (D.R. n. 1369 of 07.09.2004)
- 2005, Università del Molise (D.R. n. 1539 of 31.08.2005)
- 2019, Università del Molise (D.R. n. 787/2019 of 12.09.2019)
- 2021, Università della Tuscia (D.R. n. 461/21 of 25.08.2021)
- 2024-2025, Libera Università di Bolzano (Mountain Environment and Agriculture)

<u>Final PhD examination committee</u>
- 2007, Università del Molise (D.R. n. 1583 of 21.11.2007)
- 2008, Università della Tuscia (D.R. n. 68/08 of 29.01.2008)
- 2008, Scuola Superiore Sant'Anna di Pisa (D.R. 731 of 26.11.2008)
- 2009, Università del Molise (D.R. n. 1552 of 10.12.2009)
- 2010, Università della Tuscia (D.R. n. 75/10 of 29.01.2010)
- 2010, Università di Pisa (D.R. n. 14394 of 29.10.2010)
- 2011, Università della Basilicata (D.R. n. 681 of 25.11.2010)
- 2012, Scuola Superiore Sant'Anna di Pisa (D.R. n. 273 of 21.06.2012)
- 2012, Universidad Complutense de Madrid (R.D. n. J83 of 02.10.2012)
- 2013, Università della Tuscia (D.R. n. 511/13 of 20.05.2013)
- 2014, Università di Padova (D.R. n. 386 of 30.01.2014)
- 2014, Scuola Superiore Sant'Anna di Pisa (D.R. n. 12/2014 of 08.01.2014)
- 2014, Università della Tuscia (D.R. n. 187/14 of 11.03.2014)
- 2015, Università del Molise (D.R. n. 49 of 19.01.2015)
- 2016, Università della Tuscia (D.R. n. 488/16 of 25.05.2016)
- 2017, Università di Roma "La Sapienza" (D.R. 145/2017 of 18.01.2017)
- 2017, Università della Tuscia (D.R. n. D.R. n. 954/17 of 18.10.2017)
- 2019, Università di Padova (D.R. n. 4299/2018 of 20.12.2018)

- 2020, Università Mediterranea di Reggio Calabria (D.R. n. 90 of 19.03.2020)
- 2022, Libera Università di Bolzano (D.R. n. 310/2022 of 09.03.2022)
- 2023, Università di Firenze (D.R. n. 1474-1475/2022 of 02.12.2022)
- 2023, Università Mediterranea di Reggio Calabria (D.R. n. 32/23 of 06.02.2023)
- 2023, Scuola Superiore Sant'Anna di Pisa (D.R. n. 440/2023 of 22.06.2023)
- 2025, Università della Tuscia (D.R. 145/2025 of 20/03/2025)

Scientific evaluation of project proposals
2023, 2025 - Austrian Science Fund, FWF (Austria)
2023, 2022, 2021, 2019, 2018 - Swiss National Science Foundation, SNSF (Switzerland)
2022, 2021 - Narodowe Centrum Nauki (Poland)
2022, 2017 - National Research, Development and Innovation Office, NKFIH (Hungary)
2021 - Dutch Research Council (The Netherlands)
2020 - Provincia Autonoma di Bolzano
2019 - Czech Science Foundation (Czechia)
2018 - COST Action Proposal, Reference OC-2018-2 -23421
2018 - University of Udine (Italy)
2018 - Research Foundation, Flanders, Fonds Wetenschappelijk Onderzoek, Vlaanderen, FWO (Belgium)
2017 - COST Action Proposal, Reference OC-2017-1-22419
2017 - University of Firenze (Italy)
2016 - Weizmann Institute of Science, The Israeli Ministry of Science, Technology and Space of Israel (Israel)
2016 - Bulgarian National Science Fund, BNSF (Bulgaria)
2016 - Estonian Research Council, ETAG (Estonia)
2015 - The Netherlands Organisation for Scientific Research, NWO (The Netherlands)
2015 - COST Action Proposal, Reference OC-2015-1-19717
2015, 2014 - University of Padova (Italy)
2014 - COST Office at the State Secretariat for Education, Research and Innovation, SERI (Switzerland)
2006 - University of Antwerp, Research Council (Belgium)

**Affiliations** Membership of academic or professional bodies (including membership of Editorial Boards of scientific publications; membership of scientific committees for international conferences)

Member of academies
- 12.04.2010-21.02.2018, *Socio Corrispondente* (Corresponding Member), *Accademia Italiana di Scienze Forestali* (Italian Academy of Forest Sciences)
- 22.02.2018-ongoing, *Socio Ordinario* (Ordinary Member), *Accademia Italiana di Scienze Forestali* (Italian Academy of Forest Sciences)

Member of scientific societies
- 1996, Membership SISEF, Società Italiana di Selvicoltura ed Ecologia Forestale
- 2008-ongoing, Executive board of SISEF, Società Italiana di Selvicoltura ed Ecologia Forestale

Member of editorial boards

- 2003-ongoing, Associate editor *Tree Physiology*
- 2008-ongoing, Executive board *iForest*
- 2013-ongoing, Editorial board *Annals of Silvicultural Research*
- 2018-ongoing, Editorial board *Forests*
- 2022-ongoing, Associate editor *Frontiers in Forests and Global Change*
- 2024-ongoing, Editorial board *Environmental Research Communications*
- 2024-ongoing, Editorial board *European Journal of Forest Research*

Member of congress scientific committee

- 1997-present, biannual, SISEF Società Italiana di Selvicoltura e Ecologia Forestale
- 21-24.10.2008, 7th International Workshop on Sap Flow (ISHS), CSIC, Siviglia
- 5-9.11.2018, *IV Congresso Nazionale di Selvicoltura*, Accademia Italiana di Scienze Forestali, Torino
- 2010-2024, biannual, Simposio *Il Monitoraggio costiero mediterraneo*, CNR-IBE, Livorno

**Research and grants**

- Summary of significant achievements in research and scholarship

  My research in forest ecology and management has led to the establishment of the European Forest Institute (EFI) Project Centre on Mountain Forests (MOUNTFOR), hosted by the Edmund Mach Foundation in San Michele all'Adige, Italy, where I was appointed coordinator of this international research network. I also secured funding to develop the COST Action *Climate-Smart Forestry in Mountain Regions* (CLIMO) in partnership with a broad European consortium and served as Chair of the Action. Through a series of publications in leading scientific journals, I have advanced the concept of climate-smart forestry, contributing significantly to its development and application. This work was synthesized in several chapters of the book *Climate-Smart Forestry in Mountain Regions* (Tognetti, Smith & Panzacchi, eds., 2022, Springer Nature).

- Research grants and contracts

| Date granted | Award Holder(s) | Funding Body | Title | Amount received |
|---|---|---|---|---|
| February 2005 | Roberto Tognetti (visiting fellow WSL) | European Science Foundation | VOCBAS - Volatile Organic Compounds in the Biosphere-Atmosphere System | Short term mobility grant |
| June 2005 | Roberto Tognetti (visiting fellow CSIC) | CNR | Validazione del modello RATP per la simulazione della traspirazione e della fotosintesi dell'olivo (*Olea europaea* L.) in diversi ambienti mediterranei | Short term mobility grant |
| From 30.01.2006 to 09.03.2008 | Roberto Tognetti (head of unit) | PRIN-MIUR 2005 | Capacità di accumulo in cloni di pioppo e salice su substrato contaminato | 39.000 € |
| June 2006 | Roberto | MIUR | Sviluppo di modelli | Short term |

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| | Tognetti (visiting fellow CSIC) | | per la gestione sostenibile in olivicoltura | mobility grant |
| From 29.05.2007 to 28.05.2011 | Roberto Tognetti (management committee) | COST ACTION | FP0601 - FORest MANagement and the water cycle (FORMAN) | Travel and subsidence expenses |
| From 01.01.2008 to 31.12.2010 | Roberto Tognetti (principal investigator) | Regione Molise | ENERGUNUT 1 (biomonitoraggio stabilimento Energonut) | 82.000 € |
| From 25.07.2008 to 24.07.2010 | Roberto Tognetti (principal investigator) | Regione Molise | Valutazione preliminare del potenziale bioenergetico della regione Molise | 99.000 € |
| October 2009 | Roberto Tognetti (visiting fellow WSL) | CNR | Applicazione di tecniche dendroecologiche per l'analisi delle dinamiche di accrescimento di piante arboree vetuste in ambiente montano, con sistemi agroforestali Mediterranei | Short term mobility grant |
| From 01.01.2011 to 31.12.2012 | Roberto Tognetti (principal investigator) | Regione Molise | ENERGUNUT 2 (biomonitoraggio stabilimento Energonut) | 26.000 € |
| From 23.04.2012 to 22.04.2016 | Roberto Tognetti (management committee) | COST ACTION | FP1106 - Studying Tree Responses to extreme Events: a SynthesiS (STReESS) | Travel and subsidence expenses |
| From 22.11.2012 to 21.11.2016 | Roberto Tognetti (management committee) | COST ACTION | ES1203 - Enhancing the resilience capacity of SENSitive mountain FORest ecosystems under environmental change (SENSFOR) | Travel and subsidence expenses |
| From 01.01.2013 to 31.12.2017 | Roberto Tognetti (proposer and coordinator) | Provincia di Trento - EFI | Project Centre on Mountain Forests (MOUNTFOR) | 300.000 € |
| From 01.11.2014 to 31.10.2017 | Roberto Tognetti (in charge for MOUNTFOR) | UNIBZ-MOUNTFOR | Establishment of a network of field-scale manipulation experiments to study the effect of | Travel and subsidence expenses |

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| | | | nitrogen deposition on the carbon sink potential of forest ecosystems in South Tyrol (NEWfOuND) | |
| From 01.01.2015 to 31.12.2016 | Roberto Tognetti (in charge for MOUNTFOR) | MOUNTFOR, CNR, Universidad de Cuenca (Ecuador) | Análisis integrado de los flujos de carbono en cuencas de los andes Australes. Interacciones entre la vegetación terrestre, el suelo y las masas de agua (ECUAFLUX) | 100.000 € |
| From 01.05.2015 to 30.04.2017 | Roberto Tognetti (in charge for UNIMOL) | CNR (AnaEE)-UNIMOL (MOUNTFOR) | Agreement DIBT-DISBA | 12.000 € |
| From 01.10.2015 to 31.11.2017 | Roberto Tognetti (scientific coordinator) | EMCWF, Telespazio | Agricultural Climate Advisory Services (AgriCLASS) | 200.000 € |
| From 17.10.2016 to 16.04.2021 | Roberto Tognetti (proposer and chair) | COST Action | CA15226 - Climate-Smart Forestry in Mountain Regions (CLIMO) | 504.000 € |
| From 01.03.2017 to 28.02.2021 | Roberto Tognetti (in charge for UNIMOL) | UNIMOL-UNIBZ | Agreement UNIMOL-UNIBZ (CLIMO-DECANITRO) | 50.017x2 € |
| From 01.01.2018 to 31.12.2021 | Roberto Tognetti (principal investigator) | MAECI: Progetti di grande rilevanza | Joint Research Project as part of the Science and Technology Cooperation between Italy and the Kingdom of Sweden - Natural hazards in future forests: how to inform climate change adaptation | 178.500 € |
| From 28.02.2019 to 27.10.2023 | Roberto Tognetti (head of unit) | PRIN-MIUR 2017 | The Italian TREETALKER NETWORK - continuous large scale monitoring of tree functional traits and vulnerabilities to climate change (ITTN) | 157.790 € |

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| From 15.09.2020 to present (ongoing) | Roberto Tognetti (partner) | EFI-WUR | EFI Research Network on Climate Smart Forestry | Travel and subsidence expenses |
| From 01.12.2021 to 30.11.2025 | Roberto Tognetti (head of unit) | HORIZON 2020 | Systemic solutions for upscaling of urgent ecosystem restoration for forest related biodiversity and ecosystem services (SUPERB) | 200.250 € |
| From 16.09.2022 to 15.09.2026 | Roberto Tognetti (management committee) | COST Action | CA21125 - A European forum for revitalisation of marginalised mountain areas (MARGISTAR) | Travel and subsidence expenses |
| From 01.11.2022 to 31.10.2027 | Roberto Tognetti (head of unit) | HORIZON | The ForestWard Observatory to Secure Resilience of European Forests (FORWARDS) | 433.426 € |
| 01.11.2024 to 31.12.2026 | Roberto Tognetti (team member) | UNIBZ | Flash floods prediction and impact in protected mountain areas (FLASH) | 93.260 € |
| 01.01.2025 to 30.06.2027 | Roberto Tognetti (co-investigator) | INTERREG | Biodiversity Monitoring in the Rhaetian Protected Areas (MAP-Rezia) | 305.540 € |
| 01.10.2025 to 30.09.2029 | Roberto Tognetti (co-investigator) | HORIZON | FORest PEATtland ecosystem assessment and targeted management for enhanced carbon sequestration, biodiversity and water quality (ForPeat) | 359.550 € |
| 120 months | Roberto Tognetti (head of unit) | HORIZON | European Partnership for Forests, forestry, and the forest-based sector: Research and innovation for a Sustainable Transition (FOREST) | 241.383.350 € |

**Articles**

Publications over the last 20 years in chronological order within each category following the International Standard for bibliographic references with DOI whenever possible. With multiple authorship, the main author's name appears in *Italics*. My research on forest ecology and tree physiology has resulted in numerous peer-reviewed articles and book chapters, with bibliometric indicators (31 January 2026) reflecting sustained scientific impact: *h-index 55 (Scopus), 53 (Web of Science), 68 (Scholar); citations 10467 (Scopus), 9590 (Web of Science), 16181 (Scholar)*.

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*Lombardi F.*, **Tognetti R.** & *Marchetti M.* (2019) Il Decreto CLIMA: nuove opportunità per le aree forestali ad elevato valore naturalistico. Forest@, 16, 83-85. doi: 10.3832/efor0064-016

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Gestione Forestale Sostenibile (Marchetti M., ed.). Compagnia delle Foreste, pp. 255-256.

***Tognetti R.*** (2024) Resistenza. In: Foreste e Società. Piccolo Dizionario di Gestione Forestale Sostenibile (Marchetti M., ed.). Compagnia delle Foreste, pp. 311-312.

Total publications (since 1990)

- Journal articles in refereed academic journals: 270
- Books (authored): 3
- Books (edited): 8
- Chapters in books: 35
- Other publications (special volumes): 16
- Conference papers: 65
- Official reports (whole or part): 10
- Editorials and commentaries: 24

**Further data**

Presentations at scientific conferences over past 5 years (invited or selected, keynote, nature, and status of conference)

- 6.10.2025, invited speaker at "GROW 2025 Agrobiodiversity in a Changing Climate", FAO HQ and Botanical Garden Rome - Nature based solutions to improve resilience and adaptation to climate change in mountain agriculture
- 2.10.2025, invited speaker at "Old-Growth Forests and Ancient Trees", Vallombrosa – Processi ecofisiologici ed ecosistemici nei boschi vetusti
- 26-29.08.2025, invited speaker at "59° Corso di Cultura in Ecologia - Foreste vetuste: struttura e biodiversità 2.0", Centro Studi Ambiente Alpino "L. Susmel" - Il ruolo dei boschi vetusti fra Close(r)-to-Nature Forestry e Nature Restoration Law
- 30.08-01.09.2023, Invited speaker at "57° Corso di Cultura in Ecologia – Foreste vetuste: struttura e biodiversità", Centro Studi Ambiente Alpino "L. Susmel" - Il ruolo delle old-growth forests nella climate-smart forestry.
- 09.05.2023, Invited speaker at "Descrizione e Narrazione", University of Rome "La Sapienza" (Italy) - La scienza del clima incorporata nella gestione del paesaggio
- 16.02.2023, Invited speaker at "Executive Programme of Scientific and Technological Cooperation Between Italy and Sweden Final-Term Workshop", Italian Embassy, Stockholm (Sweden) - Natural hazards in future forests: how to inform climate change adaptation
- 15.12.2022, Invited speaker at "Workshop ETN Skill-For.Action - facing the forest carbon balance under the uncertain of the climate change", Technische Universität München (TUM), Munich (Germany) - Synergies and trade-offs between forest adaptation and mitigation
- 08.07.2020, Invited speaker at "Smart and Sustainable cities", RUDN University, Moscow (Russia) - Climate-smart forestry in mountain regions: an EU initiative (plenary speech)

**Professional activity**

- 20.06.1988-10.08.1989, professional and civil service to *Parco Regionale di Migliarino - San Rossore – Massaciuccoli* (Toscana), as *Dottore agronomo e forestale*
- 01.10.1989-15.12.1990, professional activity, as *Dottore forestale*
- 01.01.1996-30.04.1996, assignment for professional collaboration with Accademia dei Georgofili, as *Dottore forestale*
- 01.06.1999-21.07.1999, assignment for professional collaboration with

Università della Basilicata, as *Dottore forestale*

- 06.09.2006-27.02.2007, professional assignment for activities within Convenzione Università degli Studi del Molise - Regione Molise "*Relazione sullo stato dell'Ambiente della Regione Molise*" (Università del Molise)
- 01.07.2007-30.06.2008, professional assignment for social, scientific, and technological collaboration within "*Programma Comunitario INTERREG IIIA – Transfrontaliero Adriatico - Progetto E.CO.LOC.*" (D.R. n. 874 of 25.06.2007)
- 01.04.2008-31.07.2008, professional consulting on "*Rilievi legno morto, P.N. Cilento*" (Università di Roma "La Sapienza")
- 10.11.2008-09.11.2009, research contract for the implementation of the project "*Valutazione Preliminare del potenziale bioenergetico della Regione Molise*" (Università del Molise)
- 01.06.2009-31.07.2009, assignment for professional collaboration with Università di Roma "La Sapienza"

**Language skill**

Written and spoken competence in all languages according to CERF levels, Common European Reference Framework (http://www.coe.int/t/dg4/linguistic/cadre1_en.asp)

Italian – Native language (mother tongue)
English – C1 level (reading, writing, and speaking)
German – A1 level (reading, writing, and speaking)

Date 31.01.2026

I declare, pursuant to art. 76 of Presidential Decree 445/2000, that the information is true. I authorize the processing of my personal data in accordance with Legislative Decree 30 June 2003, n. 296 "Code for the protection of personal data" and the GDR 679/16 – "European Regulation on the protection of personal data".