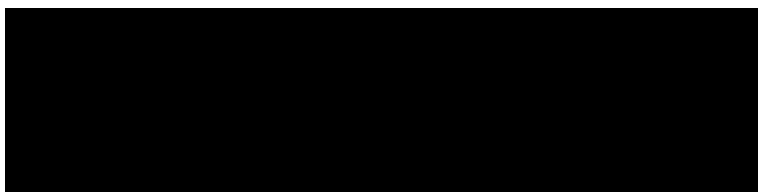


## **Francesco Ripullone**

University of Basilicata

School of Agricultural, Forest, Food and Environmental Sciences



### **Bibliographics index (updated to July 2023)**

Scopus: H Index 25; Citations 2488

ISI -WOS: H Index 25; Citations 2430

Google Scholar: H Index 28; Citations 3392

ORCID: <http://orcid.org/0000-0003-4851-3422>

Research gate: [https://www.researchgate.net/profile/Francesco\\_Ripullone](https://www.researchgate.net/profile/Francesco_Ripullone)

Google Scholar: <https://scholar.google.it/citations?user=mCon2y0AAAAJ&hl=it>

### **Education, Employment and Accademic Position**

- Since 2012 Group leader, Dendroecology Lab
- Since 2011 Associate Professor, University of Basilicata
- 2008-2010 Postdoc, University of Basilicata
- 2007 Postdoc, University of Bologna
- 2002-2006 Postdoc, University of Basilicata
- 2004-2005 Visiting Fellow, Australian National University
- 1999-2001 P.h.D., University of Basilicata
- 2000 Visiting Fellow, University of Edinburgh, Scotland
- 1995 M.Sc., University of Basilicata

### **Research interests and expertise**

His research activity is related to Forest Ecology, with particular focus on the effects of climate change and natural disturbances on Mediterranean forest ecosystems. Currently, he investigates on causes and mechanisms that induce forest decline and mortality. In particular, a recent study on physiological mechanisms of mortality forest species induced by drought has been published on a relevant international journal - Nature E&E. He is an expert in dendrochronological and isotope techniques applied to forest research.

### **Main projects**

[Role: Principal Investigator PI, Principal Investigator of local Unit UPI, member of local unit UM]

- |           |   |
|-----------|---|
| 2023-2025 | Improving the RESilience to climate change of ITalian oak FORests facing dieback (ResItFor).<br>Financed by MIUR. UPI.  |
| 2023-2025 | PP2 - Parks, forests, landforms, rural landscapes, and multifunctional agriculture. Azione 7.<br>Validation of management models of territories and their promotion. Financed by PNRR.<br>UPI.  |
| 2022-2025 | Spoke 7 - Integrated models for the development of marginal areas to promote<br>multifunctional production systems enhancing agroecological and socio-economic<br>sustainability- Task 7.1.2. Management and improvement of the agricultural and forestry<br>systems, plant and animal biodiversity enhancement also at landscape level. Financed by<br>PNRR. UM. |
| 2020-2022 | “RES Q - Deperimento della quercia nei boschi planiziali: studio multidisciplinare per la<br>selezione di risorse genetiche resistenti”. Financed by Lombardia Region Administration -<br>UPI   |
| 2018-2022 | PON OT4 CLIMA - Advanced EO technologies for studying Climate Change impacts on the<br>environment- Financed by MIUR, Italian Minister of University and Research - UPI   |
| 2013-2018 | Old growth forests network in Southern Italy National Parks. Financed by Italian Minister of<br>the Environment - PI  |
| 2012-2013 | A natural permanent laboratory within the Pollino National Park territory:<br>understanding for sustainable management. Financed by the Pollino National Park - UM  |
| 2012-2014 | Carbotrees “National strategies to mitigate climate change in agro-forestry ecosystems.<br>PRIN, Financed by Italian Minister of University and Research - UM   |
| 2006-2010 | CARBOITALY- Italian National network for measurement of forest and agricultural sinks and   |

	development of a forecasting system for greenhouse gases assimilation Financed by Italian FISR – “Fondo Integrativo Speciale per la Ricerca” - UM
2006-2008	Towards the remote sensing of carbon balance in vegetation: development of innovative methods. PRIN, Financed by Italian Minister of University and Research - UM
2003-2005	Aridity and Mediterranean forests: mechanisms of resistance, resilience and vulnerability. PRIN, Financed by Italian Minister of University and Research - UM
2002-2005	MIND “Mediterranean Terrestrial Ecosystem and Increasing Drought”: vulnerability assessment. V° EU – Framework Programme, Environment and Sustainable Development, Key action 2, Global Change, Climate and Biodiversity - UM
2000-2003	Carbo-Age: Age-related dynamics of carbon exchange in European forests. Integrating net ecosystem productivity in space and time. V° EU – Framework Programme. General Directorate XII - UM

### **Management experiences**

(Congress, Workshop and Meeting organization, speaker, faculty, master or curricula management, project management)

- 24-28 April 2023. Session BG3.4. “Forest under pressure: the need to understand causes, mechanisms and forest adaptive management of dieback forests to improve their resilience”. Organizer and Chair.
- 23-27 May 2022. Session BG3.11. “Forest under pressure: the need to understand causes, mechanisms and forest adaptive management of dieback forests to improve their resilience”. Organizer and Chair.
- 19-30 April 2021 vEGU. Session BG3.10 “Forests under pressure: causes and consequences of climate-induced forest dieback across biomes”. Organizer and Chair.
- 3-8 May 2020 vEGU. Session BG3.10 “Tree mortality and forest vulnerability across different biomes and climatic conditions: the need of multidisciplinary approach at various scales”. Organizer and Chair.
- 7-12 April 2019 Vienna. EGU Session BG2.2 “Tree mortality and forest vulnerability across different biomes and climatic conditions. Organizer and Chair.
- 8-13 April 2018 Vienna. EGU Session BG2.22 “Mediterranean Forest under Pressure: current knowledge and future science directions”.

Organizer and Chair.

- 11-12 July 2017 Rome. National Conference LIFE Fagus "Old growth forest within Pollino National Park". Oral presentation.
- 23–28 April 2017 Vienna. EGU General Assembly "Searching for early-warning signals of impending dieback and death in Mediterranean oaks".

Oral presentation.

- 12-16 December 2016 San Francisco (USA). AGU Fall Meeting. Session "Tree Mortality: Causes, Patterns, and Implications" Title: Size matters

a lot: tree height and prior growth predict drought-induced tree death in Italian oak forests". Oral presentation.

- 18-19 November 2014 University of New Hampshire, Durham, USA. International workshop on Forest Drought Net Workshop. Title: "Experiments of

rainfall manipulation in the Mediterranean area". Oral presentation.

- 5-11 October 2014 Salt Lake City (USA). XXIV IUFRO World Congress, "Sustaining Forests, Sustaining People: The Role of Research" Title:

"Searching for early-warning signals of impending dieback and death in Mediterranean oaks". Oral presentation.

### **Faculty experiences**

2020 – Coordinator, BSc in Forestry and Environmental Sciences, University of Basilicata.

2016 – Member and founder of Academic Spinoff, AGES – Agro-Ecosystem Services.

2012 – 2020 Vice-Coordinator, BSc in Forestry and Environmental Sciences, University Basilicata.

2014 – 2020 Coordinator of Erasmus Program, BSc in Forestry and Environmental Sciences, University of Basilicata.

2012 – 2015 Vice-Coordinator, PhD Programme in "Agriculture, Forestry and Food Sciences", School of Agricultural, Forest, Food and

Environmental Sciences, University of Basilicata.

### **Affiliation and Membership**

- Italian Society of Silviculture and Forest Ecology (SISEF) (since 1999)
- Member of American Geosciences Union (since 2014)
- Member of European Geosciences Union (since 2016)

Editorial activity (Journal Editor, Review board etc.)

**Journal Editor**

- iForest Biogeosciences and Forestry (Executive Editor) (since 2012)
- Forest@ (Associate Editor) (since 2012)
- Acta Amazonica (Associate Editor) (since 2015)
- Frontiers in Plant Science (Associate Editor) (since 2020)

**Reviewer for**

Tree Physiology, New Phytologist, Global Change Biology, Plant Physiology, Journal of Ecology, Oecologia, Plant Cell and Environment, Forest Ecology and Management, Trees, International Journal of Biometereology, Annals of Forest Sciences

**Teaching and tutoring activities (Courses, Thesis, PhD mentoring etc.)**

Courses

- 2012 – Ecology and Dasometry - Forestry and Environmental Sciences – University of Basilicata
- 2018 – 2019 Silviculture and Ecosystem process – Forestry and Environmental Sciences – University of Basilicata
- 2012 – 2014 Forest fire protection – Forestry and Environmental Sciences – University of Basilicata
- 2012 – 2013 Ecophysiology of forest species – Farmacy faculty – University of Basilicata
- 2009 – 2011 Silviculture and Ecology - Forestry and Environmental Sciences – University of Basilicata
- 2009 – 2011 Silviculture and Ecology - Forestry and Environmental Sciences – University of Basilicata

**Thesis and PhD mentoring**

- 2011 – Tutored 42 students for BSc and MSc thesis and mentored 4 PhD students

Potenza, 10.07.2023

