

Professor Gennaretti, Fabio

Department of Agricultural, Food and Environmental Sciences,
Università Politecnica delle Marche (UNIVPM), Ancona, Italy

Research sector

Natural sciences and engineering

Academic background

Education

- 2010/1 - 2014/7 PhD in biology - Dendrochronology, paleoecology and paleoclimatology)
Université du Québec à Rimouski (Canada)
Degree Status: Completed
- 2006/10 - 2008/12 Master's Thesis - Preservation of forests and soil defense
Università degli studi della Tuscia (Viterbo, Italy)
Degree Status: Completed
- 2002/10 - 2006/10 Bachelor's - Forest and environmental sciences
Università Politecnica delle Marche (Ancona, Italy)
Degree Status: Completed

Work experience

- From 2024/10 Professor of forest science
Department of Agricultural, Food and Environmental Sciences, UNIVPM (Italy)
- From 2020/1 Professor of forest science
Institut de recherche sur les forêts, UQAT (Canada)
- 2017/10 - 2019/8 Postdoctoral researcher in ecological modelling
INRA - Grand Est - Nancy (France), Institut National de la Recherche Agronomique
- 2015/10 - 2017/9 Postdoctoral researcher in ecological modelling (Marie Curie fellowship)
CEREGE (France), Aix-Marseille University
- 2014/8 - 2015/8 Specialist in climate scenarios and services
Ouranos (Montreal, Canada)
- 2014/1 - 2014/4 Teaching assistant (laboratory of plant biology)
Département de biologie, chimie et géographie, UQAR (Canada)
- 2009/1 - 2009/12 Research Assistant (genetic analysis)
Laboratory of biodiversity and genetic resources (Italy), Università della Tuscia

Professional activities and contributions

Main funding obtained

- Principal Applicant Canada Research Chair in dendroecology and dendroclimatology
Funding Sources:
2022/5 - 2027/4 Canada Research Chairs (CRC)
Total Funding - 600,000 (Canadian dollar)

Main coordination of events

June 2022 Main organizer of the North American Dendroecological Fieldweek (NADEF)
June 2022 Member of the organizing committee of the AmeriDendro 2022 conference (Montréal)

Main participation in committees

2021-2023 UQAT director of the Master in Sustainable Management of Forest Ecosystems
2021-2024 Member of the administrative board of CREAT (Regional Environmental Council of Abitibi-Témiscamingue)

Main prizes and distinctions

2022/5 - 2027/4 Canada Research Chairs Prize / Award

Dissemination and knowledge transfer activities

Research papers (Citations 1126; h-index 18; 14-04-2025)

<https://scholar.google.com/citations?user=oxRo7KkAAAAJ&hl=en&inst=3876147695363069972>

Supervisory activities

Bachelor's [n=8]

Master's Thesis [n=6]

Doctorate [n=10]

Post-doctorate and research staff [n=3]

Relevant expertise and contributions

Contribution: **Reconstruction of forest dynamics and climate over the last two millennia** (starting year: 2010)

My research allowed the development of a strategic network of millennial tree-ring chronologies from the taiga of Quebec using subfossil black spruce trees preserved in lakes. The regional temperatures of the last two millennia and the impact of volcanism have been reconstructed using these chronologies. Additionally, the data were used to determine how fires influenced the long-term dynamics of riparian forests and of deadwood stocks in the taiga. Our chronologies are integrated into several international datasets (PAGES 2K and NOAA Paleoclimatology) and have been used in hemispheric climate reconstructions and in syntheses documenting the impact of climate forcing on global climate.

Key publication: "Volcano-induced regime shifts in millennial tree-ring chronologies from Northeastern North America" (2014) Gennaretti F.; Arseneault D.; Nicault A.; Perreault L.; Bégin Y. *PNAS*. 111(28): 10077-10082.