

Titomanlio Pepe



Education

05/10/2019 - 24/03/2022

- **Master in Conservation and restoration of forests and environment, University of Tuscia**
110 cum laude

15/10/2015 - 24/01/2019

- **Bachelor in Science and technology applied to forest, nature and environment conservation, University of Tuscia**
110 cum laude
Student representative



Professional experience

1/1/2023 - 24/3/2023

- **Research assistant**

Laboratory for Dendrochronology, Deutsches Archaeologisches Institut, Berlin, Germany

Quantitative wood anatomy: thin section high-resolution scanning, wood parameters analysis, e.g. cell lumen, ring width
Preparation and analysis of archeological wood samples
Cross-dating

- **Erasmus traineeship**

Laboratory for Dendrochronology, GeoForschungsZentrum, Potsdam, Germany

Quantitative wood anatomy: thin section high-resolution scanning, wood parameters analysis, e.g. Cell wall thickness
Data analysis: comparison of stable isotopes signal, dendrometer growth data and quantitative wood anatomy data for *Pinus sylvestris* in the Müritz-Nationalpark

- **Erasmus traineeship**

Laboratory for Dendrochronology, GeoForschungsZentrum, Potsdam, Germany

Core extraction and conservation
Tree ring analysis: dating and crossdating
Remote sensing analysis: deriving timeseries and vegetation indices for Müritz-Nationalpark using Sentinel 2
Intra annual stable isotopes: preparing 50 um sections, cutting and packing *Pinus sylvestris* cores to obtain d13C and d18O signals via Mass spectrometer

15/07/2022 - 30/09/2022

15/04/2022 - 14/07/2022

15/10/2020 - 16/09/2020

● **Scholarship recipient**

Dendrolab, University of Tuscia, Italy

- Dendrometrical and structural surveys to assess the ecological status of the UNESCO Beech Forests in Italy
- Dendrochronologic analysis of old growth *Fagus sylvatica* stands

21/02/2020 - 31/08/2020

● **Internship**

Dendrolab, University of Tuscia, Italy

- Dendrometrical and structural surveys to assess the ecological status of the UNESCO Beech Forests in Italy
- Dendrochronologic analysis of old-growth *Fagus sylvatica* stands
- Old growth beech forests gap structure and dynamics: presence and abundance of seedlings, overall regeneration. Old growth beech forests Tree microhabitats dynamics

21/10/2019 - 30/11/2019

● **Internship**

Terrasystem srl, Via Pacinotti 5, Viterbo

- Cartographic analysis by photo interpretation of Tuscany and Campania to assess main crops

06/2019 - 08/2019

● **Volunteer**

DREAM Italia, Via Garibaldi, 3 -52015 Pratovecchio Stia (AR)

- Collaboration with the Arma dei Carabinieri, Reparto dei Carabinieri
- Forestali di Pratovecchio: monitoring of amphibians, birds, insects and mammals, floristic and forestry surveys
- Data input and management, updating inventory
- Interpreter for the European Commission for the renewal of the 'Sasso Fratino Diploma'

11/2018 - 01/2019

● **Internship**

Smartrees srl, Via Einaudi 8, Viterbo, Italy

- Management of urban green: survey of pathogens on *Pinus pinea*
- principles of Visual Tree Assessment
- instrumental analysis by Resistographs

02/2017 - 02/2018

● **Internship**

Regional Natural Reserve of Monterano, Piazza Tubingen, 1, Canale Monterano (RM), Italy

- Forestry management planning
- Forestry control activities
- Dendrology and dendrometric measurements
- Wildfire damage assessment
- Bird survey by Kilometric Abundance Index

09/2010 - 20/05/2015

● **High School diploma**

Scientific Highschool of Bracciano (RM), Italy



Other skills

● **Programming languages:**

- R
- Javascript (related to Google Earth Engine)
- Python

● **Software:**

- Quantum GIS
- Adobe Photoshop
- Image Pro Plus
- Roxas
- Windendro
- Tsap
- Cofecha

● **Dendrometric equipment:** ultrasonic hypsometer, laser hypsometer, range finder, clinometer, increment borer

● **Quantitative wood anatomy equipment:** microtome, modified microtome with high resolution camera for intra annual isotopes, Confocal Laser Scanning Microscope - CLSM", FV300 FLUOVIEW, Olympus.

● **Languages:**

- Italian, native speaker
- English, native speaker
- Deutsch, B1