

# Fabrizio D'Aprile

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Australia  
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## ACADEMIC QUALIFICATIONS

- Currently**
- **Research Fellow**
    - Monash University
    - School of Geography and Environmental Science
    - Melbourne, Australia
    - Fields of research,  
*Investigating the relationships between changing climate conditions, incidence and spreading of “rot butt”, and crown transparency in silver fir (*Abies alba* Mill.) in the Tuscan Apennine Alps*
- 2006-Current**
- **Honorary Fellow**
    - School of Forest and Ecosystem Science
    - The University of Melbourne
- Current-Ending year 2011**
- **PhD Student**
    - School of Geography and Environmental Science
    - Monash University
    - “Effects of Climate Alterations on Silver Fir (*Abies alba* Mil.) in the Tuscan Apennine Alps (Middle Italy)”.
- 2000**
- **Master by Research**
    - Institute of Land & Food Resources, The University of Melbourne
    - Researched for and wrote a thesis entitled ‘Site Quality Factors Affecting the Growth and Viability of Black Walnut (*Juglans nigra* L.) in a Plantation near Alexandra (Victoria). Published.
- 1995**
- **Professional Doctorate in Forest Science**
    - The University of Florence and the Order of Professional Agronomists and Foresters (Italy)
- 1994**
- **Forest Science Honours Degree**
    - The University of Florence (Italy). Top Score (110/110)

- Thesis: Preliminary Investigation for Study on Ecological and Silvicultural Bases of The Forests of the Municipality of Cavriglia (Arezzo) (730 pp). Published.

## EMPLOYMENT HISTORY

- 2010 – Current      Research Fellow**
- Monash University, School of Geography and Environmental Science
- 2010 – Current      Scientific Consultant**
- Environment Task Force, the National Institute of Agricultural Economics (INEA), Rome, Italy
    - ‘Strategies for mitigation and adaptation of the Italian forests to climate change’
- 2010                    Teaching**
- “Australian Physical Environments”.
  - Monash University, School of Geography and Environmental Science.
- 2008                    Teaching**
- “Climate Change and Variability”.
  - Monash University, School of Geography and Environmental Science.
- 2007                    Teaching**
- “Environmental Hydrology”.
  - Monash University, School of Geography and Environmental Science.
- Consultant**
- “Preliminary investigation on climate alterations in the Pratomagno Range, Apennine Alps, Tuscany”. Regional Government of Tuscany, Italy
- Forest Management Plan**
- Public regional forest of the Il Giogo-Casaglia for restoration after impact of the Fast Train Line works on deep water bodies. A consultancy for D.R.E.AM. Lty and the “Comunità Montana Mugello (a government district).
- 2006                    Project “Restoration of Historical Springs for Wildlife, Landscape and Tourism”**
- Identified springs in the public regional forest of the Il Giogo-Casaglia for restoration after impact of the Fast Train Line works on deep water bodies. A consultancy for D.R.E.AM. Lty and the “Comunità Montana Mugello (a local governmental district).

- 2004/6**                      **Consultant for the Office of the Prosecutor of the Republic in Florence**
- Assessed environmental impact to forest ecosystems, surface and deep water resources by the Fast Train Line works with a team based at the University of Florence (Italy). A major applied research project from Florence to the Region of Emilia-Romagna (Bologna) for public enquiry.
- 2004-2005**                      **Researcher on projects with the Dept. of Agriculture and Land Resource Economics (University of Florence)**
- Research project “Food risk communication and consumer’s trust in the food supply chain – Trust key action: 1- Food and Health. Priority: Consumer needs, attitudes and responses with regard to food products, food processing and labelling”
- Study of Climate Change Modelling and Soil Water Balance of Pienza, (Province of Siena, Tuscany): A municipality of the UNESCO Network**
- estimated the evapo-transpiration, climate patterns and changes over decades, bio-climatical indices and their modifications, aridity indices, soil erosion, runoff, water balance of soils, and the effect on the use of water resources, agriculture, forestry, infrastructure, creeks at the landscape level.
- 2003/4**                      **Project “Preliminary Study of the Hydrology and Water Quality of the Public Forest Reserve of “St. Anthony”, Municipality of Reggello (Province of Florence, Tuscany)**
- investigated the relationship between rain, soils, and water quality of creeks in the frame of the climate pattern and its modifications over decades.
- 2003/4**                      **Research Project “Climate Modelling and Soil Water Balance of Gaiole in Chianti at the landscape level, Municipality of Gaiole in Chianti (Province of Siena, Tuscany)”**
- 2003**                      **Researcher of the Effects of The “Fast Train Line” on the Public Forested Area of “Il Giogo-Casaglia”**  
Comunita’ Montana del “Mugello”  
(A mountain district of the Province of Florence).
- Analyst of landscape, agriculture, and forest characteristics for building a natural park in Chianti**  
Municipality of Gaiole in Chianti, Province of Siena, Tuscany
- assessed the environmental requirements needed to build a wide protected area, and set its perimeter

**Researcher on Preliminary evaluation of criteria of restoration and sustainable management of the geological park “Le Balze”** (foothills of the Apennini Alps) , Municipality of Castelfranco di Sopra , (Province of Arezzo, Tuscany)

- investigated the main kinds of soil and land degradation, vocational uses, and provided the administration with criteria and guidelines for planning and management

**2002**                      **Researcher on an initial Project for an Environmental Impact Methodology on the new “Fast Train Line” Florence-Bologna**

- Section 4: Monitoring of Impact and Effects on Forest Ecosystem(s)

A team with  
The University of Florence

- Dept. of Soil Science and Plant Nutrition,
- Dept. of Agriculture and Forest Engineering, and
- CNR – IATA (National Research Centre)
- Presented and published results at the international level (IUFRO, University of Vienna, U.S. Forest Service; Italian Embassy of Australia in Canberra).

**2001**                      **Research scientist on the ecology of the Public Regional Forest of “S. Antonio” for sustainable planning and management**  
Regional Government of Tuscany, Italy

**2000-2001**                      **Study of the ecology of the Public Regional Forest of “Il Giogo-Casaglia” for sustainable planning and management**

- Regional Government of Tuscany, Italy  
Presented and published results at the international level (IUFRO, University of Vienna, U.S. Forest Service; National Agriculture Research Institute of Spain)
- Analysed and identified some of the main ecological components of a mixed deciduous broadleaves forest, namely soils characteristics, climate pattern, dynamics of forest associations and structures, and derives criteria, indicators, silvicultural techniques, and models for planning and management based on the spontaneous development of forest patterns

**2000**                      **Guest Senior Lecturer**

- Lectured in the course of Industrial Silviculture and Urban Forestry, Dept. of Environment and Forest Science and Technology, the University of Florence (Italy)

- 1995**
- **Research Assistant**
  - Completed a Cognitive Investigation of the Chestnut Tree in Tuscany, Economic Aspects of Commercialising Chestnut Wood in Tuscany. In the fields of use: Industry, Commerce, Handicraft Department of Agriculture and Forestry Economics, the University of Florence (Italy)

## **AWARDS & ACHIEVEMENTS**

- 2012 - Confirmed**
- **Main Convener & Chairman**
  - EGU 2012, Sessions
    - CL2.4/BG2.8 “Climate Change: Carbon Cycle, Mortality, Dynamics and Shift of Forests”, and
    - BG2.22 “Criteria and Indicators for Forest Management under Changing Climate and Environmental Conditions”
 International Assembly  
 European Union of Geosciences, 23-27 April, Vienna
- 2011**
- **Main Convener & Chairman**
  - EGU2011, Session
    - CL2.14 “Climate Change and Forest Health and Growth”,  
 International Assembly, more than 10,000 scientists and researchers attending.  
 European Union of Geosciences, 03-08 April, Vienna
- 2009 - Current**
- **Research Grant**
  - Agreement Monash/SGES – Italian Ministry for Agriculture, Food, and Forest Policy/Corpo Forestale dello Stato
- 2008**
- **Dean’s commendation**
  - Dean’s Commendation for Excellence in Teaching “Environmental Hydrology”  
 Faculty of Arts  
 Monash University
- 2006**
- **Higher Research Degree Scholarship**
  - School of Geography and Environmental Science,  
 Monash University
- 1999**
- **Higher Research Degree Studentship**
  - The University of Melbourne  
 Institute of Land and Food Resources,
- 1996**
- **Higher Research Degree Scholarship**
  - The University of Melbourne

## **DEMONSTRATED SKILLS AND ATTRIBUTES**

Highly developed research and analytical skills

Computer Skills:

Proficient in use of Microsoft Word, Statistica, XLSTAT, Power Point, Excel, Internet

Ability to work independently and as part of a team

Highly developed understanding of cultural heritage and integration

**Published numerous articles (see publications' list attached)**