

PERSONAL INFORMATION

Francesco Maria Sabatini



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Sex M | Nationality Italian

POSITION

March 2014 - Today

Post-Doc

Sapienza, University of Rome. Department of Environmental Biology

- Research Project: "The study of floristic diversity in Apennine beech forests as a means for implementing sustainable forest management schemes".
- Cofunded by LIFE+11 project FAGUS – Forests of the Apennines: Good practices to conjugate Use and Sustainability

EDUCATION AND TRAINING

Education

November 2010 – March 2014

PhD Program – Ecological Sciences

EQF – Level 8

Sapienza, University of Rome. Department of Environmental Biology

- Principal subjects: Forest ecology, plant ecology, vegetation science, quantitative ecology, plant taxonomy
- Dissertation title: "Structural heterogeneity, dispersal limitation and abiotic resources. Causes and determinants of plant biodiversity in Southern European old-growth forests".
- Supervisor: Prof. Carlo Blasi. Co-supervisor: Sabina Burrascano, PhD.

February 2014

Visiting PhD Student at Masaryk University, Brno, Czech Republic

Department of Botany and Zoology.

- Supervisor: Prof. Milan Chytrý,
- Project title: Testing the use of vegetation-plot databases to assess plant diversity patterns. The case of Czech Republic

January 2013 – May 2013

Visiting PhD Student at University of Turku, Finland

Department of Biology. Section of Biodiversity.

- Supervisor: Prof. Hanna Tuomisto
- Project title: Ground-layer plant species turnover and beta-diversity in Southern-European old-growth forests

January 2010 – September 2010

Visiting Scholar at University of Wisconsin, Madison. USA

Department of Forest and Wildlife Ecology. Forest and Landscape Ecology Laboratory

- Supervisor: Prof. D.J. Mladenoff
- Research title: Functional diversity of ground-layer plant communities in old-growth and managed northern hardwood forests
- Course Botany 801 – Advanced Plant Community Ecology – Prof. T.J. Givnish
- Course Forestry 635 – Forest Stand dynamics – Prof. C. Lorimer

January 2007 – February 2009

M.Sc. - Environmental Sciences

EQF – Level 7

Graduation Mark: 110/110 *cum laude*

Sapienza, University of Rome. Faculty of mathematical, physical, and natural sciences

- Principal subjects: Landscape Ecology, Plant Ecology, Silviculture, Animal Ecology, Environmental Geology, Applied Geology, City planning, Statistics, Environmental Chemistry.
- Dissertation title: Individuation and Description of Old-growth forests. Remote Sensing and Floristic Analysis
- Supervisor: Prof. Carlo Blasi.

September 2003 – December 2006

B.Sc.- Environmental Sciences

EQF – Level 6

Graduation Mark: 110/110 *cum laude*

Sapienza, University of Rome. Faculty of mathematical, physical, and natural sciences

Principal subjects: Botany, Mathematics, Physics, Chemistry, Zoology, Geology, Statistics, Environmental Law, Conservation Biology, Ecology, Physiology, Geographic Information Systems.

### Training

May 2014

#### Course - Introduction to meta-analysis in ecology

DISTAV – Dipartimento di Scienze della Terra, dell'Ambiente e della Vita. Università di Genova

Lecturers: Forenza Micheli (Stanford University), Craig W. Osenberg (University of Florida), Joachim Claudet (University of Perpignan)

November 2013

#### Course - How to present a successful project proposal in the framework of EU Research and Innovation

APRE – Agency for the Promotion of European Research

- Principal Subjects: Horizon 2020, Funding opportunities, Financial aspects, Marie Skłodowska-Curie Fellowships, ERC grants, Collaborative projects, how to write a proposal

February 2012

#### Public Speaking Workshop

Jacopo Pasotti (<http://www.jacopopasotti.com>)

- Principal subjects: Introduction to basics of public perception, acceptance and understanding of science and technology, writing techniques, dealing with the media, speaking to the public, communication of risk and uncertainty, and slide-based presentation.

January 2012

#### GIS – Advanced training course in GIS and Remote Sensing

IPT s.r.l., Rome. Italy – Informatica per il Territorio. Stefano De Corso.

- Principal subjects: ArcGis 10.x, Geodatabases, Spatial Analysis, Satellite Imagery, Orthorectification

June 2011

#### Analysis of Ecological data in R Program

University "Roma Tre", Rome, Italy. Dr David Zeleny PhD.

- Principal subjects: Statistics, Data Analysis, R Program,

January 2010

#### Intensive Training Workshop on "LANDIS-II Forest Landscape Model"

University of Wisconsin, Madison (USA). Dr Robert Scheller PhD.

- Principal subjects: Forest dynamics modeling

### SCHOLARSHIPS AND AWARDS

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October 2015 – September 2017

#### Marie Skłodowska-Curie actions fellowship

##### European Commission

MSCA fellow

- Research title: FORESTS and CO<sub>2</sub> - Co-Benefits and Conflicts between CO<sub>2</sub> sequestration and biodiversity conservation in European Forests

July 2014 – December 2015

#### Research start-up grant (Fondi di avvio alla ricerca - C26N14JZMA)

##### Sapienza, University of Rome

- Principal Investigator

Research title: Local and Regional determinants of plant diversity of Apennine and Balkan old-growth forests

October 2012 – December 2013

#### Research start-up grant (Fondi di avvio alla ricerca - C26N12ESSE)

##### Sapienza, University of Rome

- Principal Investigator

Research title: Structural heterogeneity, dispersal limitation and abiotic resources. Causes and determinants of plant biodiversity in Southern European old-growth forests

January 2010 – September 2010

#### Postgraduate go-abroad scholarship

##### Sapienza, University of Rome

Visiting Scholar at: Forest and Landscape Ecology Laboratory, Prof. D.J. Mladenoff. University of Wisconsin, Madison (USA). Department of Forest and Wildlife Ecology

## WORK EXPERIENCE

May 2009 – February 2010

**Part-time Scientific and technical adviser**

Società Botanica Italiana ONLUS

- Technical and scientific support to research and publication activities

**Business or sector** Research

April 2009 – July 2009

**Trainee**

eGeos s.p.a., Rome, Italy

- Testing automatic techniques for thematic information extraction from remote sensed imagery with Definiens Developer 7.0 (now eCognition)

**Business or sector** Earth observation and data processing

December 2007 – June 2008

**Trainee**

Telespazio s.p.a., Rome, Italy

- Involved in the creation of the “Map of natural and semi-natural Vegetation Types through the improvement of Latium Land Cover map to the 4th and 5th CLC level”

**Business or sector** Satellite management services, Earth observation and satellite navigation

## PUBLICATIONS AND PRESENTATIONS

## Publications on ISI journals

1. Burrascano S, Copiz R, Del Vico E, Fagiani S, Giarrizzo E, Mei M, Mortelliti A, **Sabatini FM**, Blasi C. *in press*. Wild boar rooting intensity determines shifts in understorey composition and functional traits. *Community Ecology*, n.a.
2. **Sabatini FM**, Burrascano S, Tuomisto H and Blasi C. 2014. Ground layer plant species turnover and beta diversity in Southern-European old-growth forests. *PLOS ONE*, 9(4):e95244.
3. **Sabatini FM**, Burrascano S, Lombardi F, Chirici G, Blasi C. 2014. An index of Structural Complexity for Apennine Beech forests. *iForest*. doi: 10.3832/for1160-008.
4. **Sabatini FM**, Burton JI, Scheller RM, Amatangelo KL, Mladenoff DJ. 2014. Functional diversity of ground-layer plant communities in old-growth and managed northern hardwood forests. *APPLIED VEGETATION SCIENCE*, 17(3):398-407. DOI:10.1111/avsc.12083
5. **Sabatini FM**, Jiménez-Alfaro B, Burrascano S, Blasi C. 2014. Drivers of herb-layer species diversity in two unmanaged temperate forests in northern Spain. *COMMUNITY ECOLOGY*: 15: 147-157.
6. Burrascano S, Keeton W, **Sabatini FM**, Blasi C. 2013. Commonality and Variability in the Structural Attributes of Moist Temperate Old-growth Forests: a Global Review. *FOREST ECOLOGY AND MANAGEMENT* 291: 458-479, ISSN: 0378-1127, doi: 10.1016/j.foreco.2012.11.020
7. Burrascano S, Anzellotti I, Carli E, Del Vico E, Facioni L, Pretto F, **Sabatini FM**, Tilia A, Blasi C 2013. Drivers of beta-diversity variation in *Bromus erectus* semi-natural dry grasslands. *APPLIED VEGETATION SCIENCE* 16: 404-416, ISSN: 1402-2001, doi: 10.1111/avsc.12021
8. Burrascano S, **Sabatini FM**, Blasi C. 2011. Testing indicators of Sustainable Forest Management on understorey composition and diversity in southern Italy through variation partitioning. *PLANT ECOLOGY* 212: 829-841.
9. Foster JR, Burton JI, Forrester JA, Liu F, Muss JD, **Sabatini FM**, Scheller RM, Mladenoff DJ. 2010. Evidence for a recent increase in forest growth is questionable. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 107:E86-E87.

## Publications on non-ISI journals

10. **Sabatini FM**. 2014. An intuitive way to assess forest management intensity. Potential and caveats. *ProcPoS* 1:e7.
11. **Sabatini FM**, Barbati A, Burrascano S, Cimini D, De Paulis S, et al. 2014. Il Progetto LIFE+ Fagus. Buone pratiche per coniugare uso e sostenibilità nelle faggete appenniniche. *SHERWOOD* 204: 5-8.
12. **Sabatini FM**, Burrascano S, Blasi C. 2010. Niche heterogeneity and old-growth forests conservation value. *ITALIA FORESTALE E MONTANA*: 65 (5).
13. Burrascano S, Azzella MM, Bonacquisti S, Copiz R, Del Vico E, Facioni L, Lattanzi E, Rosati L, **Sabatini FM**, Tilia A, Blasi C. 2011. Biodiversità e indicatori nei boschi vetusti italiani. In: *Le conoscenze botaniche del Lazio dal 1950 al 2010: stato dell'arte*. *INFORMATORE BOTANICO ITALIANO*, vol. 43 suppl.1, p. 108, ISSN: 0020-0697, Roma, 20-11-2011

## Publications on books\monographs

14. Barbati A, Burrascano S, de Paulis S, De Vita A, Di Santo D, Gioiosa M, **Sabatini FM**. 2014. FAGUS. Buone pratiche per coniugare uso e sostenibilità delle Foreste dell'Appennino - FAGUS. Forests of the Apennines: Good practices to conjugate Use and Sustainability, Ente Parco Nazionale del Cilento, Vallo di Diano e Alburni. Vallo della Lucania (SA), Italy. DOI: 10.13140/2.1.2763.6166
15. Blasi C, Burrascano S, Maturani A, **Sabatini FM**. 2010. Old-growth forests in Italy. Palombi Editori. Roma. ISBN 978-88-6060-270-1. [http://www.minambiente.it/export/sites/default/archivio/biblioteca/protezione\\_natura/foreste\\_vetuste\\_eng.pdf](http://www.minambiente.it/export/sites/default/archivio/biblioteca/protezione_natura/foreste_vetuste_eng.pdf)
16. Blasi C, Burrascano S, Maturani A, **Sabatini FM**. 2010. Foreste Vetuste in Italia. Palombi Editori. Roma. ISBN 978-88-6060-269-5

## PUBLIC LECTURES\CONFERENCES

## Public Lectures

- "Causes and Determinants of Ground-Layer Plant Species Turnover in Southern-European Old-Growth Forests". Seminars in Ecology and Evolution. University of Turku, Finland. Contact: Prof. Veijo Jormalainen
- "Plant diversity patterns across scales. Old-growth forests as a reference". Seminar. Masaryk University, Brno, Czech Republic. Feb 24, 2014. Contact: Prof. Milan Chytrý.

## As a Speaker

- Conference: Primeval Beech Forests: Reference Systems for the Management and Conservation of Biodiversity, Forest Resources and Ecosystem Services. 2-9 June 2013. L'viv, Ukraine. **Sabatini FM**, Burrascano S, Tuomisto H, Blasi C. Causes and Determinants of Ground-Layer Plant Species Turnover in Southern-European Old-Growth Forests.
- VIII Incontro dei Dottorandi in Ecologia e Scienze dei sistemi acquatici. AIOL-SITE. 27 February- 1 March 2012. **Sabatini FM**, Burrascano S, Blasi C. Causes and determinants of beta diversity in Apennine old-growth forests.
- Symposium of the Federation Internationale de Phytosociologie. 13-17 September 2011. Valencia. **Sabatini FM**, Burrascano S, Blasi C, Causes and determinants of beta-diversity in southern European old-growth forests.

## As a co-author

- Symposium of the Federation Internationale de Phytosociologie. 13-17 September 2011. Valencia. Burrascano S, **Sabatini FM**, Blasi C. Towards a Southern European old-growth forests network.
- Conference: Primeval Beech Forests: Reference Systems for the Management and Conservation of Biodiversity, Forest Resources and Ecosystem Services. 2-9 June 2013. L'viv, Ukraine. Burrascano S, Keeton WS, **Sabatini FM**, Blasi C. Commonality and Variability in the Structural Attributes of Moist Temperate Old-Growth Forests: a Global Review

## Posters

- Conference: European Geosciences Union; General Assembly 2015 – Vienna, Austria, April 2015. Maggi O, Lunghini D, Pecoraro L, **Sabatini FM**, Persiani AM. Safeguarding saproxylic fungal biodiversity in Apennine beech forest priority habitats
- Conference: XXIII congresso SITE – Ancona, September 2013. Barbati A, Burrascano S, **Sabatini FM**, Azzella MM, Portoghesi L, Corona P, Blasi C. A LIFE+ Nature project for the enhancement of structural heterogeneity in priority habitat Apennine beech forests: actions of education and awareness raising
- Conference: Primeval Beech Forests: Reference Systems for the Management and Conservation of Biodiversity, Forest Resources and Ecosystem Services. 2-9 June 2013. L'viv, Ukraine. Barbati A, Burrascano S, **Sabatini FM**, Portoghesi L, Corona P, Blasi C. A Life+ Nature project for the enhancement of structural heterogeneity in priority habitat (9210 and 9220) Apennine beech forests
- National Conference on old-growth forests in Italy: Identification, Characterization, Management. 25-26 giugno 2010. Prati di Tivo, Pietracamela (Teramo). **Sabatini FM**, Burrascano S, Blasi C. Niche heterogeneity and old-growth forests conservation value.

## INSTITUTIONAL RESPONSIBILITIES

April 2013 – February 2014

- Member of the Department Council.
- Sapienza, University of Rome. Department of Environmental Biology

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1
French	A2	B1	A2	A2	A2
German	A1	A1	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Research Interests

- Old-growth Forests
- Biodiversity and ecosystem functioning
- Numerical ecology
- Drivers of plant diversity
- Plant distribution and spatial patterns
- **Functional Diversity**
- Analysis of Ecological Data

Affiliations

- S.B.I. – Società Botanica Italiana
- S.I.S.V. – Società Italiana di Scienze della Vegetazione
- I.A.V.S. – International Association for Vegetation Science

Referee

- Journal of Ecology
- iForest
- Scientific Reports
- Peerage of Science

April 21, 2014  
Francesco Maria Sabatini