



Fabrizio Michelangeli

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Gender: Male

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CURRENT POSITION

Phd candidate

[01/11/2019 - Current]

Sapienza University of Rome, Italy

Thesis dissertation in May 2022

EDUCATION AND TRAINING

Master's Degree in Ecobiology

Sapienza University of Rome [26/10/2018]

Address: Rome

Final grade : 110/110 cum laude

Thesis: Palaeovegetational reconstructions and climate dynamics during the last 3000 years in Italy

Bachelor's degree in Natural Sciences

Sapienza University of Rome [19/05/2016]

Address: Rome

Final grade : 110/110 cum laude

Thesis: The nativeness of *Styrax officinalis* L. in Italy

SCOLARSHIPS

Student tutoring

[27/04/2020 - 27/07/2020]

Department of Environmental Biology, Sapienza University of Rome, Student Tutor in the course of "Botany and Plant Diversity" (call n° 2/2020)

Student tutoring

[10/10/2019 - 31/12/2019]

Department of Environmental Biology, Sapienza University of Rome, Erasmus Mundus Programme ARCHMAT, Student Tutor in the international course "Archaeometry and Laboratory of Archaeometry" (call n° 82/2019)

Student tutoring

[09/04/2019 - 09/07/2019]

Department of Environmental Biology, Sapienza University of Rome, Student Tutor in the course of "Botany and Plant Diversity" (call n° 03/2019)

WORK EXPERIENCES

Assistant Museum Curator

[13/03/2017 - 13/03/2018]

Assistant curator at the Civic Museum of Zoology of Rome (13/03/2017-13/03/2018), funded by SNC "Servizio Civile Nazionale", with tasks of:

- contributing curatorial content to exhibit-related programming
- maintaining the mammal collections
- restoring the ornithological collection "Arrigoni degli Oddi"
- reordering and updated the malacological collection "Settepassi"
- inventorying a new Bryozoan collection (Chimenz collection, *Epiceno et al.*, 2019).

RESEARCH ACTIVITY

Pollen analysis from marine sediment cores in the Mediterranean Sea

Reconstruction of Late Holocene vegetational trends, agricultural practices, and climate oscillations in the Mediterranean region

Pollen analysis of archaeological materials (burials, underwater settlements, organic residues)

Creation and maintenance of a Mediterranean palaeopalynological database

PROJECTS

Spatio-temporal patterns of vegetation dynamics in the Central Mediterranean region during the last 3000 years (STORY)

[2022 - Current]

Sapienza University Research Fellow, Department of Environmental Biology; Principal Investigator: F. Michelangeli

Bisenzio Project

[Current]

project supported by the Deutsche Forschungsgemeinschaft (DFG); coordinator: Dr. A. Babbi

Plants and human activity in the I millennium B.C.: A palynological approach

[2020 - 2021]

Sapienza University Project No. AR120172B6F2F165; Principal Investigator: F. Michelangeli

PIAnt RemAins as indicators of past human activity in the underwater Iron Age settlement of Gran Carro (Lago di Bolsena, Viterbo) - PARABOLA

Sapienza University Project, Principal Investigator: D. Magri, 202, under evaluation

Scelte economiche delle comunità umane del Mediterraneo centrale e relazione con le fluttuazioni climatiche dell'Olocene medio

Sapienza University Project: No. RM11916B5048C45F; Principal Investigator: C. Conati Barbaro, 2019

Risposte della VEgetazione e delle popoLazioni umane in Italia e nel Vicino OriEnte all'evenTo climatico di 4200 anni fa (VELVET)

Sapienza University Project, No. RM1181641C0CB0C7; Principal Investigator: D. Magri, 2018

PUBLICATIONS

Three Millennia of Vegetation, Land-Use and Climate Change in SE Sicily

[2022]

<https://doi.org/10.3390/f13010102>

Michelangeli, F., Rita, F.D., Celant, A., Tisnérat, N., Lirer, F., Magri, D., 2022. Three Millennia of Vegetation, Land-Use and Climate Change in SE Sicily. *Forests* 13, 22.

Sign-switching ecological changes in the Mediterranean Basin at 4.2 ka BP

[2022]

<https://doi.org/10.1016/j.gloplacha.2021.103713>

Di Rita, F.*, **Michelangeli, F.***, Celant, A., Magri, D., 2022. Sign-switching ecological changes in the Mediterranean Basin at 4.2 ka BP. *Global and Planetary Change* 208, 103713.

***co-first author**

Data for: Sign-switching ecological changes in the Mediterranean Basin at 4.2 ka BP

[2021]

<https://doi.org/10.17632/wgb7j9bvss.1>

Magri, D.; Di Rita, F.; **Michelangeli, F.**; Celant, A., 2021. "Data for: Sign-switching ecological changes in the Mediterranean Basin at 4.2 ka BP", Mendeley Data, V1.

Vegetation history of SE Sicily from feudal land management to post-war agricultural industrialization

[2022]

<https://doi.org/10.1016/j.revpalbo.2021.104547>

Michelangeli, F., Di Rita, F., Lirer, F., Lubritto, C., Bellucci, L.G., Cascella, A., Bonomo, S., Margaritelli, G., Magri, D., 2022. Vegetation history of SE Sicily from feudal land management to post-war agricultural industrialization. *Review of Palaeobotany and Palynology* 104547.

Climate and human influence on the vegetation of Tyrrhenian Italy during the last 2000 years: new insights from microcharcoal and non-pollen palynomorphs

[2019]

<https://doi.org/10.4461/GFDQ.2019.42.10>

Di Rita, F., Lirer, F., Margaritelli, G., **Michelangeli, F.**, Magri, D., 2019. Climate and human influence on the vegetation of Tyrrhenian Italy during the last 2000 years: new insights from microcharcoal and non-pollen palynomorphs. *Geografia Fisica e Dinamica Quaternaria* 42 (2), 203-214.

The Bryozoan collection of the Museo Civico di Zoologia of Rome

[2019]

https://www.anms.it/riviste/dettaglio_rivista/36/10

Epiceno, A., Cera, A., **Michelangeli, F.**, Rulli, A., Zaggia, S., 2019. The Bryozoan collection of the Museo Civico di Zoologia of Rome. *Museologia Scientifica* 13, 35-39. ISSN 1123-265X.

Checklist di gruppi selezionati dell'entomofauna di una area della campagna romana a nord-est di Roma (Lazio)

Crucitti, P., Bombarda, F., Brocchieri, D., Bubbico, F., Del Bove, E., Doglio, S., Emiliani, F., Francioni, G., Gneccchi, M., **Michelangeli, F.**, Rodomontini, R., Pulvirenti, E., Rossi, S., Santoboni, L., Tringali, L., Vigliola, V., 2016. Checklist di gruppi selezionati dell'entomofauna di una area della campagna romana a nord-est di Roma (Lazio). *Bollettino dell'Associazione Romana di Entomologia* 71, 207-233

CONFERENCES AND SEMINARS

ERC project TIMED Workshop: Testing the role of Mediterranean thermo-haline circulation as a sensor of transient climate events and shaker of North Atlantic Circulation

[05/2020]

Invited speaker

<https://icacho6.wixsite.com/timed>

Paleontological Virtual Congress PaleoVC, December 2021

[12/2021]

Climate and the Roman conquest of Italy, University of Toronto

[Toronto (Canada), 09/2021]

SGI 90th congress of Società Geologica Italiana

[Trieste (Italy), 09/2021]

MedPalynos 2021, The Mediterranean Palynology Symposium

[Modena (Italy), 09/2021]

4° CGMI, quarto Convegno dei Geologi Marini Italiani

[02/2021]

20th Congress of the International Union for Quaternary Research INQUA, Dublin

[Dublin (Ireland), 07/2019]

ABSTRACTS

Vegetation change in SE Sicily during the last 3000 years

Michelangeli, F., Di Rita, F., Lirer, F., Magri, D. - Vegetation change in SE Sicily during the last 3000 years. In: Vlachos, E. Penélope Cruzado-C., Crespo V. D., Ríos Ibañez M., Arnal F. A. M., Herraiz J. L., Gascó-Lluna F., Guerrero-Arenas R., and Ferrón H. G. (eds) (2021) Book of Abstracts of the 3rd Palaeontological Virtual Congress, 304 pp, ISBN 978-84-09-36657-6.

Vegetation history of Italy during the Roman expansion

Michelangeli, F., Di Rita, F., Magri, D., 2021. Vegetation history of Italy during the Roman expansion. In: Bernanrd, S. (2021) The Climate and the Roman conquest of Italy. Toronto, Canada.

A Late Holocene pollen record from marine sediments in SE Sicily

Michelangeli, F., Di Rita, F., Lirer, F., Magri, D., 2021. A Late Holocene pollen record from marine sediments in SE Sicily, in: Società Geologica Italiana (Ed.), GEOLOGY WITHOUT BORDERS - 90° Congresso della Società Geologica Italiana. Società Geologica Italiana. <https://doi.org/10.3301/ABSGI.2021.03>

A palaeoecological record of land-use changes in SE Sicily during the last 400 years

Michelangeli, F., Di Rita, F., Lirer, F., Magri, D.- A palaeoecological record of land-use changes in SE Sicily during the last 400 years. In: Florenzano A. & Clò E. (Eds.). 2021. Mediterranean Palynology Societies Symposium. Abstracts Book, p. 3-4. Modena, Italy. ISBN 9788894344219.

Analisi polliniche di sedimenti marini tardo-olocenici della Sicilia sudorientale

Michelangeli F., Di Rita F., Lirer F. & Magri D.- Analisi polliniche di sedimenti marini tardo-olocenici della Sicilia sudorientale. In: Chiocci F.L., Budillon F., Ceramicola S., Gamberi F., Loreto M.F., Senatore M.R., Spagnoli F., Sulli A. (eds) - Abstract Book della Società Geologica Italiana, "La geologia marina in Italia, Quarto Convegno dei Geologi Marini Italiani - Roma, 25-26 febbraio 2021", 83. <https://doi.org/10.3301/ABSGI.2021.01>

Potenzialità dei diagrammi pollinici marini nello studio di eventi climatici

Magri D., Di Rita F., **Michelangeli F.**, Lirer, F. - Potenzialità dei diagrammi pollinici marini nello studio di eventi climatici In: Chiocci F.L., Budillon F., Ceramicola S., Gamberi F., Loreto M.F., Senatore M.R., Spagnoli F., Sulli A. (eds) - Abstract Book della Società Geologica Italiana, "La geologia marina in Italia, Quarto Convegno dei Geologi Marini Italiani - Roma, 25-26 febbraio 2021", 82. <https://doi.org/10.3301/ABSGI.2021.01>

Pollen studies in Archaeometry

Michelangeli F., Chassouant L., Fundurlic A., Paladugu R., Celant A., Di Rita F., Magri D. (2019) Pollen studies in Archaeometry. Share Science, Rome, October 2019, N-57: https://web.uniroma1.it/fac_smfn/sites/default/files/ShareScience%20Posters.pdf

A compositional meta-analysis of pollen data reveals climate influence on vegetation in the Central Mediterranean region during the late Holocene

Michelangeli F., Di Rita F., Furlanetto G., Pini R., Ravazzi C., Vitale M., Magri D. (2019) A compositional meta-analysis of pollen data reveals climate influence on vegetation in the Central Mediterranean region during the late Holocene. 20th Congress of the International Union for Quaternary Research (INQUA), Dublin, July 2019, P-3498: <https://app.oxfordabstracts.com/events/574/program-app/submission/93953>

Amphi-Adriatic persistence, extinction and divergence of tree populations during the Quaternary

Magri D., Di Rita F., **Michelangeli F.** (2019) Amphi-Adriatic persistence, extinction and divergence of tree populations during the Quaternary. 1st International Meeting on the Amphi-Adriatic flora and vegetation, Rome, May 2019

SCIENTIFIC COLLABORATIONS

Parco Archeologico del Colosseo

[2021 - Current]

Domus Tiberiana (Palatino, Roma): pollen analysis from Roman amphorae

Istituto di Scienze Marine ISMAR-CNR of Naples

[2018 - Current]

Pollen analysis of marine sediment cores from the Central Mediterranean

Soprintendenza Archeologia, Belle Arti e Paesaggio per l'area metropolitana di Roma, la provincia di Viterbo e l'Etruria meridionale

[28/01/2021 - 30/01/2021]

Coring campaign of lake sediments from the Bolsena Lake, Gran Carro archaeological site

ERC project TIMED

[2020 - 2021]

Study of past climatic variability and environmental changes in the Mediterranean Basin

Centre Européen de Recherche et d'Enseignement des Géosciences de l'Environnement (CEREGE) del Centre National de la Recherche Scientifique (CNRS) of Aix-en-Provence

[07/05/2019 - 12/05/2019]

Geological/botanical survey and coring campaign of lagoon sediment in the Aleria site (Corsica)

University of Perugia

[23/05/2018 - 24/05/2018]

Geological/botanical survey and coring campaign of Pleistocene lacustrine samples in the Pantalla area (PG)

Istituto superiore per la protezione e la ricerca ambientale ISPRA

[06/02/2022 - 11/02/2022]

Coring campaign of lacustrine sediment in the Bolsena area (VT)

Römisch-Germanisches Zentralmuseum Mainz (RGZM) - Dr. Babbi

Coring campaign of lacustrine sediment in the Bolsena Lake, Bisenzio archaeological site

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING B1 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

DIGITAL SKILLS

Statistical software

R (Statistics) / Q-Gis / Paleontological Statistical Tool (PAST) and XLSTAT / ENVI / Multivariate analysis of ecological data (CANOCO PAST) / Psimpoll / Bayesian chronological modeling software (OxCal, CalPal, BCal) / Calib810 / CiteS pace / VOSViewer

Graphics and editing

Corel Draw 2020 (Advanced skills) / Inkscape, Gimp / Adobe photoshop / Filmora9

General and other

Microsoft Office / Zotero (scientific literature managing software) - advanced / Google Drive / Cloud-based collaborative tools (Google Drive, Dropbox, Teams) / Skype / Zoom / Social Media (Facebook, Twitter, Instagram, LinkedIn)

Databases

NOAA / NeotomaDB / European Pollen Database EPD / IUCN databases / Research and downloading data from big databases (GBIFF, USGS..)

DRIVING LICENCE

Driving Licence: AM

Driving Licence: B

Roma, 28/02/2022

