

## PERSONAL INFORMATION

Alessandro Bricca

## Environmental Biologist

## WORK EXPERIENCE

2018-2019 **Tutoring activity at Camerino University**

Co-tutor of master thesis "The role of intra- and interspecific trait variability on functional diversity and redundancy along environmental gradients in abandoned grasslands" candidate Arianna Ferrara

1/09/2019- on going **Research fellow "Ecology and management of coastal wetlands and mediterranean grasslands"**

School of biosciences and veterinary medicine (Camerino University) under the Supervision of Andrea Catorci.

Settore scientifico disciplinare: BIO/03 "Botanica Ambientale e Applicata" – Area di ricerca 05 (Scienze Biologiche)

2018-2019 **Tutoring activity at Camerino University**

Co-tutor of master thesis "How context-dependent fine-scale variations affect coenological structure of un-managed sub-mediterranean grasslands" candidate Xia Xinfang

05/2019 **Organising Committee of Eastern Alpine and Dinaric Society for Vegetation Ecology (EADSVE)**

Colfiorito (PG)

26/02/2019 **Ph.D. in "Cellular, molecular and environmental biology"**

Roma Tre, University of Rome, academic year 2017/2018

Title of thesis "Spatio-temporal functional variation of the sub-Mediterranean mountain grasslands"

6/2018 **Ecological workshop of Società Botanica Italiana (SBI)**

"Biodiversity pattern in calcareous grassland: functional and structural variation in relation to microenvironmental gradient"

Pescasseroli (AQ)

2017-2018 **Tutoring activity at Camerino University**

Scholarship for lecture in

- Geobotany

Trainee supervisor

Co-tutor of master thesis "Effect of iterated mowing on functional traits of *Brachypodium rupestre* and their interplay with the fine-scale plant community functional structure" candidate Fabio Tolu

**2016-2017 Tutoring activity at Roma Tre University**

Scholarship for lecture in

- Botany
- Ecology

Trainee supervisor

Co-tutor of master thesis " Investigation of belowground functional strategies of sandy dunes species" candidate Elina Kozhuharova

Co-tutor of master thesis "Variation in the functional structure of plant communities along elevation gradient in a sub-mediterranean mountain area" candidate Letizia di Biase

**2015-2016 Tutoring activity at Roma Tre University**

Scholarship for lecture in

- Botany
- Ecology

Trainees supervisor

**04/2015 Scholarship at Roma Tre University**

Geodatabase creation of Latium Vascular Flora

**2014 Collaborations with Environmental Science Department of Camerino University**

Camerino University, Camerino

- Stato dell'ambiente nella fascia subalpina e alpina del Parco Nazionale dei Monti Sibillini. Intervento "Monitoraggio della diversità forestale" Responsabile scientific: Andrea Catorci; Gruppo di lavoro: F.M. Tardella, K. Piermarteri, N. Postiglione, L. Malatesta, M. Tavoloni, A. Bricca. Coordinamento: A. Rossetti, P. Salvi. (2015)

**EDUCATION AND TRAINING**

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**8/2/2019 24 CFU at RomaTre University**

General teaching methods and technologies

- M-PED/03
- M-PED/04

Pedagogy, special pedagogy and educational inclusion

- M-PED/01
- M-PED/02
- M-PED/03

Psychology

- M-PSI/01
- M-PSI/04
- M-PSI/05

Antropology

- M-DEA/01
- M-FIL/03

- 14-23/11/2018 **Linear modelling of ecological patterns (In R software)**  
Practical statistical course with software R at University of RomaTre with the supervisor of Vojtech Barták
- Basic principles of probability, statistical inference and modelling
  - Principles of linear models
  - Advanced linear modelling
  - Principles of generalized linear models
- 16-22/09/2018 **“Go Belowground!” Course of Functional Ecology**  
The course held in Nové Hradý (Czech Republic) with supervisor of Jitka Klimešová. The course consists practical training and lectures on following topics:
- Introduction to plant morphology, architecture and anatomy
  - Ecological interpretations and correlates of morphological, architectural, and anatomical traits
  - Clonal growth organs and clonal traits
  - Bud bank and life-history traits
- 2018 **Research period**  
Institute of botany of the Czech Academy of Science (Trebou, Czech Republic) with the supervisor of Jitka Klimešová.
- 06/2017 **Plant productivity and indexes as a proxy for basic ecosystem features**  
CNR, Monterotondo  
An Elter h2020 training session contributing to Ecosystem Integrity monitoring at LTER sites.
- 02/2017 **Practical course on Molecular Phylogeny and Population Genetics**  
RomaTre University, Rome
- 10-12/2015 **Quantitative Ecology Modul**  
University of South Boemia, České Budějovice
- Community Ecology
  - Functional traits in ecology
  - Creative publishing in community ecology
- 09/2015 **Linear Models and Their Extensions in R software**  
Roma Tre University, Rome
- Linear regression and ANOVA
  - Generalised Linear Models (GLMs)
  - Linear mixed-effects models (LMMs)
- 27/05/2014 **Master Degree: “Biodiversity and Ecosystems management” (DM 270; LM-6)**  
Roma Tre University, Rome, academic year 2012/2013
- Vegetation science, animal and plant biodiversity, animal and vegetation

- ecology.
  - Thesis: "Study of a forest ecosystem through functional traits in two different silvicultural managements". Awarded summa cum laude (110/110 cum laude)
- 2014 **Basis course of R for Environmental and Biological Science for PhD school**  
Roma Tre University, Rome
- Plot, Boxplot, correlation and regression test, PCA, CCA, RDA
- 09/2013-11/2013 **Internship at A.R.P.A. Lazio (Regional agency for environmental protection)**  
A.R.P.A. Lazio in Rome
- Biological analysis of surface waters
- 22/02/2012 **Bachelor Degree: "Biological science" (DM 270; L-13)**  
Roma Tre University, Rome, academic year 2010/2011
- Botany, Zoology, Ecology, Genetics, Molecular biology, Microbiology, Animal and plant physiology .
  - Thesis: "Functional analysis of plant species of sandy coast: changes along environmental gradients". Awarded (110/108)
- 2011 **Internship at Roma Tre University**  
Roma Tre University, Rome
- Otters population ecology research, in Abruzzo (Italy)

PERSONAL SKILLS

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Mother tongue Italian

Other languages

English Very good reading and listening comprehension, good speaking and writing skills

Organisational / managerial skills Autonomy in organizing work, prioritizing, results oriented, negotiation skills, coordinating work teams.

Job-related skills

- Precision: meeting deadlines, analyzing, classify and computing data
- Problem solver
- Team work

Computer skills

- Good knowledge of Microsoft Office™ tools (including Excel, Power Point programs and the R studio statistic program)

Driving licence

- B type drive license

ADDITIONAL INFORMATION

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Scientific Publications Bonari, G., Fantinato, E., Lazzaro, L., Sperandii, M. G., Acosta, A. T. R., Allegranza, M., ... & Bagella, S. (2021). Shedding light on typical species: implications for habitat monitoring. *Plant Sociology*, 58, 157.

- Chelli\*, S., Bricca\*, A., Cutini, M., Campetella, G., Cervellini, M., Tsakalos, J. L., & Canullo, R. (2021). Large standard trees and deadwood promote functional divergence in the understory of beech coppice forests. *Forest Ecology and Management*, 494, 119324. (\* first author).
- Di Biase, L., Fattorini, S., Cutini, M., & Bricca, A. (2021). The Role of Inter-and Intraspecific Variations in Grassland Plant Functional Traits along an Elevational Gradient in a Mediterranean Mountain Area. *Plants*, 10(2), 359.
- Filibeck, G., Sperandii, M. G., Bragazza, L., Bricca, A., Chelli, S., Maccherini, S., Wellstein, C., Conte, A., Donatantonio, M., Forte, L. T.G.W., Lazzaro, L., Macchiavelli, T., Maestri, S., Marchesini, R., Marignani, M., Midolo, G., Oddi, L., Rosati, L., Silan, G., & Cancellieri, L. (2020). Competitive dominance mediates the effects of topography on plant richness in a mountain grassland. *Basic and Applied Ecology*, 48, 112-123.
- Bricca, A., Chelli, S., Canullo, R., & Cutini, M. (2020). The Legacy of the Past Logging: How Forest Structure Affects Different Facets of Understory Plant Diversity in Abandoned Coppice Forests. *Diversity*, 12(3), 109.
- Tardella, F. M., Bricca, A., Goia, I. G., & Catorci, A. (2020). How mowing restores montane Mediterranean grasslands following cessation of traditional livestock grazing. *Agriculture, Ecosystems & Environment*, 295, 106880.
- Stanisci, A., Bricca, A., Calabrese, V., Cutini, M., Pauli, H., Steinbauer, K., & Carranza, M. L. (2020). Functional composition and diversity of leaf traits in subalpine versus alpine vegetation in the Apennines. *AoB Plants*, 12(2), plaa004.
- Bricca, A., Tardella, F. M., Tolu, F., Goia, I., Ferrara, A., & Catorci, A. (2020). Disentangling the Effects of Disturbance from Those of Dominant Tall Grass Features in Driving the Functional Variation of Restored Grassland in a Sub-Mediterranean Context. *Diversity*, 12(1), 11.
- Bricca, A., Conti, L., Tardella, M. F., Catorci, A., Iocchi, M., Theurillat, J. P., & Cutini, M. (2019). Community assembly processes along a sub-Mediterranean elevation gradient: analyzing the interdependence of trait community weighted mean and functional diversity. *Plant Ecology*, 220(12), 1139-1151.
- Trait data of the study present in global trait dataset TRY
- Petriccione, B., Bricca, A., (2019) Thirty years of ecological research at the Gran Sasso d'Italia LTER site: climate change in action. *Nature Conservation* 34:9-39
- Tardella, F.M., Postiglione, N., Bricca, A., Cutini, M., Catorci, A., (2019) Altitude and aspect filter the herb layer functional structure of sub-Mediterranean forests. *Phytocoenologia* Vol.49, Issue 2, 185-198
- Chelli, S., Marignani, M., Barni, E., Petraglia, A., Puglielli, G., Wellstein C., ... Bricca, A., Cerabolini, B.E.L. (2019) Plant functional traits and the environment: a review of Italian studies. *Plant Byosistems*
- Scolastri, A., Bricca, A., Cancellieri, L., & Cutini, M. (2017). Understory functional response to different management strategies in Mediterranean beech forests (central Apennines, Italy). *Forest Ecology and Management*, 400, 665-676.
- Tardella, F. M., Bricca, A., Piermarteri, K., Postiglione, N., & Catorci, A. (2017). Context-dependent variation of SLA and plant height of a dominant, invasive tall grass (*Brachypodium genuense*) in sub-Mediterranean grasslands. *Flora*, 229, 116-123.

Vojtko, A., E., Freitag, M., Bricca, A., Martello, F., Compañ, J. M., Küttim, M., ... & Götzenberger, L. (2017). Clonal vs leaf-height-seed (LHS) traits: which are filtered more strongly across habitats?. *Folia Geobotanica*, 1-13.

## National Scientific Conference

- 8/10/2020 Workshop of Società Italiana di Scienza della Vegetazione (SISV) “Dalla fitosociologia al monitoraggio degli Habitat (Dir. 92/43/CEE): specie caratteristiche, specie diagnostiche, specie tipiche”.
- 6-7/02/2020 Bricca A., Tardella F.M., Cutini M., Catorci A., Latitudinal and elevation gradient differently affected species understory coexistence in beech forests of Apennine chain (Italy). First Conference of Young Botanist (CYBO), Società Italiana Scienza della Vegetazione. Polo Albergo dei Poveri. Genova (Italy).
- 02/2017 Plant Traits 2.0: lo stato dell’arte e le prospettive di ricerca sui caratteri morfo-funzionali delle piante in Italia” Società Botanica Italiana. Team Work for Ecology. Bologna (Italy)

## International Scientific Conference

- 05/2019 Bricca A., Tardella, F.M., Piermarteri, K., Postiglione, N., Catorci, A., “Intraspecific trait variation drive the spread of *Brachypodium rupestre* (DC.) Roem et Schult in sub-Mediterranean grasslands”. Book of Abstract; 38<sup>th</sup> Congress of eastern Alpine and Dinaric Society for Vegetation Ecology. Colfiorito (Italy)
- 05/2018 Bricca A., Scolastri, A., Cancellieri, L., Cutini, M., . “Understory functional response to different management strategies in sub-Mediterranean beech forests”. Book of Abstract; 27<sup>th</sup> Congress of European Vegetation Survey. Wroclaw (Poland)
- 09/2017 Bricca A., Tardella F.M., Piermarteri K., Postiglione N., Catorci A. “Functional variation of *Brachyodum genuense* (DC.) Roem. Et Schult in sub-Mediterranean grassland”. Book of Abstract; 1<sup>st</sup> International Conference on Community Ecology. Budapest (Hungary)
- 09/2017 IV International Plant Science Conference. 112° meeting of Società Botanica Italiana. Parma (Italy)
- 09/2016 13<sup>th</sup> European Grassland Conference “Management and Conservation of Semi-Natural grasslands: from theory to practice”. Sighisoara (Romania)

## Poster Session

- 05/2019 Tolu, F., Tardella, F.M., Panichella, T., Bricca, A., Catorci, A., “Fine scale community functional response to iterative mowing and functional traits of *Brachypodium rupestre* in the “Montagna di Torricchio” Natural Reserve”; Book of Abstract; 38<sup>th</sup> Congress of eastern Alpine and Dinaric Society for Vegetation Ecology. Colfiorito (Italy)
- 05/2019 Bricca, A., Conti, L., Tardella, F.M., Catorci, A., Iocchi, M., Theurillat, J-P., Cutini, M., “Unimodal functional traits variation along elevation gradient in a sub-Mediterranean mountain grassland”; Book of Abstract; 38<sup>th</sup> Congress of eastern Alpine and Dinaric Society for Vegetation Ecology. Colfiorito (Italy)

- 05/2019 Ferrara, A., Cifani, F., Lucarelli, M., Panico, S., Berthelsen, A.L., Bricca, A., “How different combinations of stress and disturbance affect the facilitation process”; Book of Abstract; 38<sup>th</sup> Congress of eastern Alpine and Dinaric Society for Vegetation Ecology. Colfiorito (Italy)
- 05/2018 Bricca, A., Conti, L., Tardella, F.M., Catorci, A., Iocchi, M., Theurillat, J-P., Cutini, M., “Functional traits variation along elevation gradient are climate-context dependent: the case of sub-Mediterranean mountain grassland”; Book of Abstract; 27<sup>th</sup> Congress of European Vegetation Survey. Wroclaw (Poland)