

Curriculum Vitae

Matteo Barcella

PERSONAL DATA

Matteo Barcella
born on 30th April 1980 in Milan
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ACADEMIC QUALIFICATIONS:

- 2013 – Admitted to the Italian Agrotechnical Register (State Exam: 97/100).
- 2013 – **PhD in Experimental Ecology and Geobotany** at the University of Pavia.
Title of the thesis: “Montane grasslands of the Northern Apennine: syntaxonomy, synchorology, synecology, pasture analysis and pasture modelling”.
- 2009 – **Specialistic degree** in “Natural Science” with honour at the University of Pavia.; specific address in “Analysis and sustainable management of the natural heritage”.
Title of the thesis: “I boschi a pino nero (PINUS NIGRA ARN.) dell’Oltrepò Pavese”.
- 2005 – Degree in “Natural Science” 109/110 at the University of Milan.

WORKING EXPERIENCE:

- ✓ Adjunct Professor in “management flora and vegetation” at the University of Pavia with focus on the Habitat Directive, Nature Network 2000 and Community Agricultural Policy (2017 – present).
- ✓ Scientific consultant for University of Pavia in the project named “Attiv-Aree Oltrepò Biodiverso” in charge of enhancing the territory from a naturalistic point of view. (September 2017 – November 2018).
- ✓ Scholarship holder in data collection and processing for the vegetation study in Lombardy. University of Pavia (2018).
- ✓ Scientific consultant for ECO srl (consulting and agri-environmental services company) in charge of carrying out an evaluation of the eligibility for grazing of some pastures in the province of Sondrio. Activities carried out:
 - a. field detection;
 - b. mapping using GIS software and data processing (June 2017 – December 2017).
- ✓ Agrotechnical expert for farms in charge of carrying out an evaluation of the eligibility for grazing of pastures in Lombardy. Activities carried out:
 - a. field detection;
 - b. mapping using GIS software and data processing;
 - c. drafting of the report. (2016 – present).
- ✓ In charge of implementation of the Italian Floristic-Vegetation Database VegItaly. Italian Botanical Society (SBI) (2016).
- ✓ Scholarship holder for the study concerning the analysis of the environmental framework for Milan Linate Airport Master Plan. floristic-vegetational characterization of the area surrounding the Linate Airport and an assessment of the naturalness with a focus on exotic species. (April 2016 – December 2016).

- ✓ Scholarship holder financed by the Province of Pavia with the following objectives:
 - a. Identification of Natura 2000 Habitats in the pSCI "Pietra Corva e Sassi Neri"(PV) with mapping of habitats and compilation of Standard Data Form;
 - b. Identification and mapping of Natura 2000 Habitats in the province of Pavia outside the Natura 2000 Network.
University of Pavia (2015 – 2016).
- ✓ Scholarship holder in detection of nemoral flora in the State Natural Reserve Bosco Siro Negri with GIS analysis of spatial distribution of Habitat 91F0 in the Pavia province and Lombardy region – University of Pavia (2015).
- ✓ Scientific consultant for Mountain Community Valle Camonica - Adamello Regional Park in the project "Preservation of grassland habitats – Niardo, Stabio di Sotto pasture " with a vegetation study and identification of management practices aimed at improving the conservation of pasture. (June 2015 – January 2016).
- ✓ Vegetation scientific consultant in environmental impact study about hydro-electrical and energetic field. SIA (2015)
- ✓ Vegetation scientific monitoring consultant in the building of infrastructures such as: EXPO, TEEM ringroad, A4 motorway. NQA (2015 – present).
- ✓ Scientific consultant in charge of three specific actions inside an important Regional project named "LIFE+11 NAT/IT/ 044 GESTIRE" (Development of the strategy to manage the Natura 2000 in Lombardy Region):
 - a. Spotting conservation measures about natural and seminatural grasslands formations for Natura 2000 sites without a specific management Plan (Action C1);
 - b. Processing Common Agricultural Policy (PAC) data (2007-2013) into Lombardy region Natura 2000 Sites (Action C2).
 - c. Scientific review of "Gestire" database concerning conservation measures of every Natura 2000 Sites (Special Areas of Conservation) in Lombardy Region.
ERSAF (October 2014 – May 2015).
- ✓ Scholarship holder in "Evaluations of the biological effects of different bioactive agromatrix on vegetable growth of some farming (poplar, corn field, vineyard)" – University of Pavia (May – October 2014).
- ✓ Scientific technical consultant to spot species rich grasslands in agreement with financial contribution from Common Agricultural Policy (CAP) – Province of Trento (March – October 2013 and April – October 2014).
- ✓ Scientific consultant in charge of scheduling management plans of four Special Protection Areas (ZPS) – Province of Lodi (August – December 2013).
- ✓ Professor for specialistic course on software GIS (ArcGIS 9.3, Quantum Gis 1.99, Grass 6.4) at the University of Pavia (2011 – 2013).
- ✓ Teaching assistant in "Landscape analysis" and "Landscape ecology" at the University of Pavia (2010 – 2012).
- ✓ Thesis correlator at the University of Pavia (2010 – 2013).
- ✓ Scientific consultant for the Council of Scanzo Rosciate (BG) writing a book on "Il Plis del Monte Bastia" (2006 – 2007).

ADDITIONAL ACKNOWLEDGMENTS:

- ✓ In statistical elaboration (Summer school – University of Pavia, 12-18th September 2011): **"Advances in Species distribution modelling in ecological studies and conservation"**.
- ✓ In **"Environmental technical consultant"** (Centro Studi Ecologia – Ambiente (CSEA), Fiorenzuola d'Arda, June – December 2012 (51 hours).
- ✓ In software GIS data elaboration (University of Trento, 18th – 22nd June 2012): **"Grass, Free e Open Source Gis e Geodatabase"**.
- ✓ **"Entrepreneurship course"** (PHD High Formation school – University of Pavia, 2012).
- ✓ **"Visual Tree Assessment (VTA)"** professional course (Agricultural school in Monza, 10th -12th March 2014).

- ✓ **"Qualified expert about corn damage caused by environmental adversity"** professional course (IIS "Stanga", Cremona, 20th - 21st February 2015).
- ✓ In statistical elaboration (University of Pavia, 19-22nd February 2018): **"Introduction to species distribution models with R software"** - Prof. Achaz von Hardenberg, University of Chester, UK.

TECHNICAL SKILLS:

in the use of scientific tools such as: Stereomicroscope, data loggers recording climatic data, Gps tools

INFORMATIC KNOWLEDGE:

Microsoft Office, Internet tools, Arcview Gis 3.2, ArcGis 9.3, Quantum Gis 1.9, Grass 6.4 and statistical software (SPSS, PAST, PRIMERS, SYNTAX).

PUBBLICATION AND CONGRESSES:

- ✓ Barcella M., Filippini F., Assini S. (2016) – **A simple model to support grazing management by direct field observation**. Agriculture Ecosystems & Environment, 234: 107-117.
- ✓ Biella P., Ollerton J., Barcella M., Assini S. (2017) – **Network analysis of phonological units to detect important species in plant-pollinator assemblages: can it inform conservation strategies?**. Community Ecology 18 (1): 1-10.
- ✓ Ravera S., Cogoni A., Vizzini A., Aleffi M., Assini S., Barcella M., Wolfgang von Brackel, Caporale S., Fackovcova, Filippino G., Gheza G., Gigante D., Paoli L., Potenza G., Poponessi S., Prosser F., Puntillo D., Puntillo M., Venanzoni R. (2017) – **Notulae to the Italian flora of algae, bryophytes, fungi and lichens: 3**. Italian Botanist 3: 17-27.
- ✓ Assini S., Mondino G. P., Varese P., Barcella M., Bracco F. (2012) – **A phytosociological survey of the *Corynephorus canescens* (L.) Beauv. communities of Italy**. Plant Biosystem.
- ✓ Ardenghi N.M.G., Barcella M. (2014) – **Notula 2030. *Bromus hordeaceus* L. subsp. *molliformis* (Billot) Maire & Weiller (Poaceae)** In: Barberis G., Nepi C., Peccenini S., Peruzzi L. (eds.): Notulae alla checklist della flora vascolare italiana 17 (2027-2070). Informatore Botanico Italiano, Firenze, 46(1).
- ✓ Attending the 46° SISV Workshop on " *Countdown 2010 Save Biodiversity*" (Pavia, 17-19 February 2010); on this occasion I made a poster "**Le pinete a pino nero (*PINUS NIGRA* ARN.) dell'Appennino Pavese**" Barcella M. & Assini S.
- ✓ Attending the SBI Workshop on "*Le praterie secondarie degli habitat 6210, 62A0 e 6510: identificazione, gestione e monitoraggio*" (Padova, 27-28 October 2010); on this occasion I made a poster "**Studio fitosociologico delle praterie montane nell'Appennino Pavese: risultati preliminari**" Barcella M. & Assini S.
- ✓ Attending the Ecological Restoration (SER) Workshop Society on "*Semi-natural grasslands as a source for biodiversity improvement – Project SALVERE*" (Bernburg in Germany, 18-20 May 2011).

- ✓ Attending the International Congress regarding Interreg Central Europe SALVERE project (Padova, 21-22 September 2011) "*Impiego delle praterie semi-naturali ricche di specie nella raccolta di seme per il restauro ecologico di aree degradate; Esperienze dal progetto Salvere e da numerosi stati europei*".
- ✓ Attending the SBI Workshop on "*La gestione delle praterie secondarie (habitat 6210, 62A0 e 6510) con particolare riferimento alle interrelazioni tra fauna e vegetazione e alle problematiche agronomiche*" (Perugia, 6-8 October 2011).
- ✓ Attending the EVS (European Vegetation Service) and FIP Workshop (Roma, 9-13 April 2013); on this occasion I made a poster "**Montane grasslands of the Northern Apennine: syntaxonomy, sinchorology and synecology**" Barcella M. & Assini S.
- ✓ Attending the IX Meeting of graduate students in ecology and environmental science (Milano, 15-18 April 2013); on this occasion I made a presentation "**Montane grasslands of the Northern Apennine: Pasture modeling by direct field observation**" Barcella M. & Filipponi F.
- ✓ Attending the 109° International Plant Science Conference, (Florence, 2-5 September 2014); on this occasion I made a poster "**Reproduction, stability and important species of Mt. Lesima grasslands (Northern Apennines): a network analysis**" Biella P., Assini S. & Barcella M.
- ✓ Attending the 48° SISV Workshop on "*Scienza della Vegetazione e monitoraggio della Biodiversità*" (Roma, 17-19 September 2014); on this occasion I made a presentation on "**A phytosociological survey of semi-dry mountain grasslands in the Northern Apennines (Italy)**" Barcella M., Assini S., Ardenghi N.M.G.
- ✓ Attending the Forum Alpinum '14 on "*Alpine Resources – Use, valorization and management from local to macro-regional scale*" (Darfo Boario Terme, 17-19 September 2014).
- ✓ Attending the SISV Workshop on "*Scienze della vegetazione: sfide e prospettive della ricerca*" (Pavia, 6-7 March 2015); on this occasion I made a presentation "**Le conoscenze sulla vegetazione della Lombardia negli ultimi vent'anni (dati disponibili e sua rappresentazione in VegItaly)**" Bracco F., Barcella M. & Assini S.
- ✓ Attending the 110° Congress of the Italian Botanical Society, International Plant Science Conference (Pavia, 14-20 September 2015); on this occasion I made a poster "**Effects of its use on vegetative growth, photosynthetic activity and crop production**" Barcella M., Quatrone V., Tosi S., Picco A.M., Sartori F.
- ✓ Attending the 49° SISV Workshop on "*Scienza della Vegetazione e monitoraggio della Biodiversità*" (Ancona, 24-26 September 2015); on this occasion I made a presentation on "**A case study of pasture modeling by direct field observation: Habitat 6210 of Mt. Chiappo (Northern Apennine – Italy)**" Barcella M., Filipponi F., Assini S.

27/02/2018