

## Curriculum Vitae Andrea Catorci

Place and date of birth - Ancona June 17<sup>th</sup>, 1961.

Master Degree in Biological Sciences February 20, 1987 (110/110 cum laude), at the Faculty of Mathematical, Physical and Natural Sciences of University of Camerino (Camerino, Italy).

January 1991 - May 1995 - "Technical and Scientific Collaborator" in the Department of Botany and Ecology, University of Camerino.

June 1995 - February 2002 - "Scientific and Technical Functionary" at the Department of Botany and Ecology, University of Camerino.

2002-2012 - Full-time researcher at the University of Camerino.

2012-2013 - Aggregate Professor at the University of Camerino.

Since 2014 - Associate Professor in Applied Botany at the University of Camerino.

2019 - Abilitation to Full Professor.

Member of the Italian Botanical Society, the Italian Society of Plant Sociology, the International Association of Vegetation Science (IAVS), the Eurasian Dry Grasslands Group and the East Alpine and Dinaric Society for Vegetation Ecology (EADSVE) of which he has been President from 2009 to 2013, and currently is vice-president.

September 2018 - Curator of the *Herbarium Universitatis Camerinensis* (CAME).

Founding member of the spin-off of the University of Camerino Terre.it.

Author of over 120 scientific publications.

### Research topics

- *Geobotany* - Discovery and floristic, structural and synecological description of plant communities, some of which new to science or never reported; chorological and ecological characterization of species of particular conservation interest (rare, undangered and/or interesting from a biogeographic viewpoint).
- *Ecology and ecosystems management* - Investigation of environmental and anthropogenic factors that determine the distribution, dynamism and floristic composition of plant communities, and in particular on: grassland ecology and management from a plant functional viewpoint, integrating the ecological, agronomic and socio-economic approaches; the analysis of ecosystem functioning and engineering in grassland systems of Andes and Patagonia and integrated management of Mediterranean pastures and forest ecosystems in face of livestock grazing, forestry and climate change. Such research area can be divided into three sectors: relationship between environment and plant communities; relationship between anthropogenic disturbance and composition of plant communities; plant-plant interactions.
- *Landscape Ecology* - Scientific understanding of vegetation mosaic dynamics, using a diachronic and ecological approach.
- *Applied Botany and land planning* - Plant biodiversity conservation, land use planning, and sustainable development of local communities. Floristic and vegetation knowledge of Natura 2000 sites.

### Participation in national and regional projects

Participation of the *Herbarium Universitatis Camerinensis* in the following projects – Coordinator for the University of Camerino Prof. Andrea Catorci.

- 2018 - "CoRIMBo" project (Coordination of the Italian Network of Botanical Museums) of the Italian Botanical Society.
- 2019 - "SIT Biodiversità" project (Biodiversity Territorial Information System), funded by Marche Region - Database of 1800 plant specimens available in the web.
- 2019 (ongoing) - Mapping of the Italian endemic species (coordinator of the Floristics, Systematics and Evolution group of the Italian Botanical Society: Lorenzo Peruzzi, University of Pisa).

- 2019 (ongoing) - Wikiplantbase#Italia project (coordinator Gianni Bedini, University of Pisa). Upload of georeferenced floristic records on a web platform. Wikiplantbase is the first provider of plant biodiversity data in GBIF for Italy.

### Organization of seminars and workshops

Seminars/workshops organized by the *Herbarium Universitatis Camerinensis* (CAME) – Curator Prof. A. Catorci.

- Camerino, June 10<sup>th</sup>, 2019 - Dr. Lorenzo Lastrucci. “The digitization of the herbarium specimens in Italy: from API and GIFT to the CORIMBO project”. Dr. Lorenzo Cecchi - Database, digitization and sharing: the Central Herbarium of Florence in the botanical collections Italian network and in the European scenario. Sistema Museale di Ateneo – Museum of Natural History of the university of Florence. Section of Botany.
- Camerino, November 29<sup>th</sup>, 2019 - Workshop “Floristic studies for Biodiversity Conservation”.

### List of relevant publications in floristics and phytogeography

- Ballelli S., Tardella F.M., Pennesi R., Catorci A. 2019. The *Herbarium* of Monti Sibillini. Notiziario Società Botanica Italiana (in Italian). *In press*
- Tardella F.M., Aleffi M., Ballelli S., Pennesi R., Canullo R., Catorci A. 2019. The renaissance of the *Herbarium Universitatis Camerinensis* (CAME). Notiziario Società Botanica Italiana (in Italian). *In press*
- Tardella F.M., Aleffi M., Ballelli S., Pennesi R., Canullo R., Catorci A. 2019. History of the *Herbarium Universitatis Camerinensis* (CAME). Notiziario Società Botanica Italiana (in Italian). *In press*
- Ballelli S., Tardella F.M., Orsomando E., Catorci A., 2010. The vascular flora of the Altipiani di Colfiorito (Umbria-Marches Apennines, Italy). *Webbia* 65(2): 241-290.
- Ballelli S., Cesaretti S., Gatti R., Montenegro B., Vitanzi A., Catorci A., 2010. Catalogue of the vascular flora of Monti Sibillini (central Apennines - Italy). *Braun-Blanquetia*, 47, 126 pp. (in Italian).
- Ballelli S., Cesaretti S., Catorci A., 2009. Floristic findings in the Monti Sibillini National Park, as a complement of the catalogue of the *Herbarium Marchesoni*. *Informatore Botanico Italiano* 41(1): 29-38 (in Italian).
- Catorci A., Gatti R., Tardella F.M., 2007. Variation of floristic richness in the grassland ecosystems of the Umbria-Marche Apennines along an elevation gradient. *Biogeographia*, 28: 167-175 (in Italian).
- Tardella F.M., Ballelli S., Gatti R., Catorci A., 2007. Floristic diversity of montane grasslands of Macerata Apennines. *Braun-Blanquetia*, 42: 145-156 (in Italian).
- Ballelli S., Gatti R., Raponi M., Catorci A., 2006. Vegetation and floristic aspects of the territory of Norcia (Umbria – central Italy): the vegetation series of the white oak (*Quercus pubescens* s.l.). *Webbia*, 61(2): 305-323 (in Italian).
- Catorci A., Orsomando E., Raponi M., 2003. Chorological and phytosociological aspects of *Carpinus orientalis* Miller in Umbria. *Fitosociologia* 40: 1-8 (in Italian).
- Orsomando E., Catorci A., 2001. *Hippophae rhamnoides*. First report in Umbria. *Evonymus verrucosus*. *Inf. Bot. Ital.* 32: 46 (in Italian).
- Orsomando E., Catorci A., 1998. Chorological and phytosociological aspects of *Quercus frainetto* Ten. in Umbria. *Fitosociologia*, 35: 51-63 (in Italian).
- Orsomando E., Catorci A., Silvi B., Raponi M., Lucarini D., 1997. Vascular flora of the Rivers Topino, Clitunno and Marroggia. Catchment Basin of the River Topino (Umbria). *Riv. Idrobiol. University of Perugia*, 37: 120-137 (in Italian).
- Orsomando E., Silvi B., Catorci A. 1996. Distribution of *Calluna vulgaris* (L.) Hull in Umbria. *Ann. Bot. (Roma)* 54: 175-188 (in Italian).

- Ballelli S., Catorci A., Orsomando E. 1993. New findings of *Ionopsidium savianum* (Caruel) Ball ex Arc. and of rare species in Umbria Apennines. *Giorn. Bot. Ital.* 127: 657 (in Italian).
- Catorci A., Orsomando E., Cenci A., 1992. Phytogeographic and ecological aspects of *Buxus sempervirens* L. in Umbria. *Studi e Informazioni – IRRES*, Perugia 5(12): 85-104 (in Italian).

### Other publications

- Malatesta L., Tardella F.M., Tavoloni M., Postiglione N., Piermarteri K., Catorci A. 2019. Land use change in the high mountain belts of the central Apennines led to marked changes of the grassland mosaic. *Applied Vegetation Science* 22: 243-255.
- Catorci, A., Piermarteri, K., Penksza, K., Házi, J., Tardella, F. M. 2017. Filtering effect of temporal niche fluctuation and amplitude of environmental variations on the trait-related flowering patterns: lesson from sub-Mediterranean grasslands. *Scientific Reports* 7(1), 12034.
- Catorci A., Malatesta L., Velasquez J.L., Tardella F.M., Zeballos H. 2016. The interplay of nurse and target plant traits influences magnitude and direction of facilitative interactions under different combinations of stress and disturbance intensities in Andean dry grassland. *Journal of Plant Ecology* 9(3): 296-310. doi:10.1093/jpe/rtv062
- Corazza M., Tardella F.M., Ferrari C., Catorci A. 2016. Tall grass invasion after grassland abandonment influences the availability of palatable plants for wild herbivores: insight into the conservation of the Apennine chamois *Rupicapra pyrenaica ornata*. *Environmental Management* 57(6): 1247-1261. doi: 10.1007/s00267-016-0679-1
- Malatesta L., Tardella F.M., Piermarteri K., Catorci A. 2016. Evidence of facilitation cascade processes as drivers of successional patterns of ecosystem engineers at the upper altitudinal limit of the Dry Puna. *PloS one*, 11(11), e0167265.
- Catorci A., Cesaretti S., Malatesta L., Tardella F.M. 2014 Effects of grazing vs. mowing on the functional diversity of sub-Mediterranean productive grasslands. *Applied Vegetation Science* 17(4): 658–669. doi: 10.1111/avsc.12103
- Catorci A., Velasquez J.L., Cesaretti S., Malatesta L., Tardella F.M., Zeballos H. 2014. How environment and grazing influence floristic composition of dry Puna in the southern Peruvian Andes. *Phytocoenologia* 44(1-2): 103-119.
- Catorci A., Tardella F.M., Cesaretti S., Bertellotti M., Santolini R., 2012. The interplay among grazing history, plant-plant spatial interactions and species traits affects vegetation recovery processes in Patagonian steppe. *Community Ecology* 13(2): 253-263. doi: 10.1556/ComEc.13.2012.2.16
- Catorci A., Cesaretti S., Gatti R., Tardella F.M., 2012. *Trait-related flowering patterns in submediterranean mountain meadows*. *Plant Ecology* 213(8): 1315-1328. doi: 10.1007/s11258-012-0090-9
- Catorci A., Vitanzi A., Tardella F.M., Hrsak V., 2011. *Regeneration of Ostrya carpinifolia Scop. forest after coppicing: modelling of changes in species diversity and composition*. *Polish Journal of Ecology*, 59(3): 483-494.

### Submitted articles

- Ballelli S., Pennesi R., Campetella G., Cervellini M., Chelli S., Lucarini D., Tardella F.M., Catorci A., Canullo R. The new flora of the Riserva Naturale Montagna di Torricchio (Marche, Italy). *Italian Botanist* (submitted).

Camerino, December 31<sup>st</sup>, 2019

Andrea Catorci

