

## **Prof. Alessandro CHIARUCCI**

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## **Education**

1997: PhD in *Environmental Sciences* at the University of Siena, Italy, with a thesis on "*Ecology, Diversity and conservation of 'serpentine' plant communities of Tuscany*" (National Evaluation Committee of Ecology at the University of Genova).

1990: MS Degree in Natural Science at the University of Siena (maximum vote cum Laude).

## **Scientific and Professional Career**

2021: Head of the Department of *Biological, Geological and Environmental Sciences* at the *Alma Mater Studiorum* - University of Bologna

2014: Full Professor of *Applied and Environmental Botany*, *Alma Mater Studiorum* - University of Bologna.

2005: Associate Professor of *Applied and Environmental Botany*, University of Siena.

2001: University Researcher in *Plant Ecology*, University of Siena.

1995: Herbarium Curator, University of Siena.

## **Scientometric Data**

*ISI Web of Science*: 185 papers with 3545 citations and *h-index* = 31;

*Scopus*: 206 papers with 4033 citations and *h-index* = 33.

## **Additional Qualifications**

National Scientific Qualification as Full Professor of *Ecology*

President of the *Italian Botanical Society* (2021-)

Member of the *WWW Scientific Community*

Classified as Top Italian Scientist by VIA-Academy (<http://www.topitalianscientists.org/>)

Scientific Director of the *Bologna Botanical Garden* (2016-2021)

## **Research Topics**

- 1) Methods for measuring biodiversity;
- 2) Spatial patterns of species diversity;

3) Conservation Biology;

4) Island Biogeography.

## Teaching

University of Bologna: "*Biogeography and Macroecology*" (International MSc in Global Change Ecology & Sustainable Development Goals), "*Biogeography*" (MSc in Biodiversity and Evolution), "*Elements of Conservation Biology*" (BSc in Biological Sciences).

Founder and first Coordinator of the International MSc in "*Global Change Ecology & Sustainable Development Goals*" at the University of Bologna.

Formerly Coordinator of the section "*Biodiversity and Conservation*" of the PhD School in "Life Sciences" of the University of Siena.

Formerly President of the teaching Committee of the MSc Teaching Course in "*Biodiversity and Conservation of Nature*" of the University of Siena.

Coordinator of Erasmus Exchange programs between the University of Siena (before) and Bologna (now) and the Universities of La Laguna (Spain), Bremen (Germany), Coimbra (Portugal), Brno (Czech Republic) and Copenhagen (Denmark).

Co-Organiser and teacher at the Greek Summer School in Conservation Biology (<http://www.cbcd.eu/gss/>).

Tutor of several students (>50) during for their Bachelor, Master and PhD theses.

## Selected Research Projects

National Agency for Environmental Research and Protection (ISPRA). 2020. Development of a National Plan for Biodiversity Monitoring. Project P.I.

PON 2018 *LifeWatch-Plus for enforcing the national infrastructure*. Responsible for the plant biodiversity hub.

PNIR 2019 *LifeWatch-Plus for enforcing the human capital*. Responsible for five plant biodiversity projects.

National Park of Casentinesi Forests. 2018. *Project for studying forest structure and dynamics*. Project P.I.

PRIN 2015 (National Funding for Basic Research) *Biodiversity and ecosystem services in Sacred Natural Sites (BIOESSaNS)*. Project P.I.

FP6 RECONDES *Conditions for Restoration and Mitigation of Desertified Areas Using Vegetation* (36 months), Member Staff within CNR-IRPI.

CRUI / DAAD bilateral cooperation project on "*Predictivity of large scale species richness from plot data: a methodological comparison*" (24 months), Project Leader.

British Council - Researcher Exchange Programme Awards, University of Durham, on "*Novel methods for regional climate change risk assessments*" (24 months), Project Partner.

FP7 EU BON "*Building the European Biodiversity Observation Network*" (54 months), Partner P.I.

University of Siena PAR 2001 "*Assessment and Analysis of Biodiversity Indicators in Forest Ecosystems*" (24 months), Project Coordinator

University of Siena PAR 2003 "*Cross-Taxon Congruence of Biodiversity in Key Taxa*" (24 months), Project Coordinator.

University of Siena PAR 2005 "*Development of Methods for Biodiversity Assessment and Monitoring in Network of Protected Areas*" (24 months), Project Coordinator,

VI Bilateral Agreement of Scientific Cooperation Italy-Greece 2000-2001, Project "*Plant Biodiversity in Greek Serpentine. Contribution to the conservation and management of spontaneous flora*" (24 months), Project Coordinator.

## **Editorial Activity**

*Journal of Vegetation Science*: Chief Editor (2006-2021); previously Associate Editor from 02/2002 to 06/2006

*Applied Vegetation Science*: Chief Editor (2006-2021);

*Community Ecology*: Subject Editor from 09/2009 to 06/2013

*Plant and Soil*: Guest Editor for a special issue in 2007 on "Advances in the ecology of Serpentine Soils",.

Referees for more than 50 international journals

## **Selected teaching and research periods spent abroad**

Departamento de Ecología, Universidad de La Laguna, La Laguna, Tenerife, Spain, Erasmus Theaching Mobility. April 2008;

Institut für Ökologie und Evolutionsbiologie, Universität Bremen, Bremen, Germany, Erasmus Theaching Mobility. May 2009;

Departamento de Ecología, Universidad de La Laguna, La Laguna, Tenerife, Spain, Invited Professor. June – September 2009;

Department of Botany and Zoology, Faculty of Science, Masarykova Univerzita, Brno, Czech Republic, Erasmus Theaching Mobility. March 2010;

Master Universitario en Biodiversidad, Funcionamiento y Gestión de Ecosistemas, Universidad del Pais Vasco, Bilbao, Spain. May 2010;

Departamento de Ecología, Universidad de La Laguna, La Laguna, Tenerife, Spain, Invited Professor. August – September 2010;

Summer School in “Biodiversity of Islands in the Face of Climate Change”. University of Bayreuth, Germany / La Palma, Spain. April 2011;

Master Universitario en Biodiversidad, Funcionamiento y Gestión de Ecosistemas, Universidad del Pais Vasco, Bilbao, Spain. May 2011;

Greek Summer School in Conservation Biology, Erasmus Intensive Programme, Papingo, Greece. June-July 2011;

Departamento de Ecología, Universidad de La Laguna, La Laguna, Tenerife, Spain, Erasmus Theaching Mobility. March 2012;

Master Universitario en Biodiversidad, Funcionamiento y Gestión de Ecosistemas, Universidad del Pais Vasco, Bilbao, Spain. May 2012;

Greek Summer School in Conservation Biology, Erasmus Intensive Programme, Papingo, Greece. June-July 2012;

EDYSAN - Ecologie et dynamique des systèmes anthropisés, Université de Picardie Jules Verne, Amiens, Francia. Invited Professor, February-March 2013;

Center for Theretical Studies, University Charles of Prague, Praga, Repubblica Ceca. Exchange Program University of Siena – Charles University Prague, April 2013;

Department of Botany and Zoology, Faculty of Science, Masarykova Univerzita, Brno, Czech Republic, Erasmus Theaching Mobility. September 2013.

Summer School in “Biodiversity of Islands in the Face of Climate Change”. University of Bayreuth, Germany, La Palma, February-March 2014.

Greek Summer School in Conservation Biology, Erasmus Intensive Programme, Ano Pedina, Greece. June-July 2014;

Greek Summer School in Conservation Biology, Erasmus Intensive Programme, Ano Pedina, Greece. June-July 2015;

## **Project Evaluator**

Academy of Finland; Estonian Research Council; European Science Foundation; Georgian National Science Foundation; Grant Agency of the Czech Republic; Hungarian Scientific Research Fund (OTKA); Ikerbasque Foundation; Italian Government - MIUR (PRIN, Futuro in Ricerca, VQR); Natural Sciences and Engineering Research Council of Canada; National Science and Technological Foundation of Portugal; South African Research Foundation; Swedish Formas, Swiss Science Foundation.

## Other Scientific Participation and coordination

Member of the Advisory Council of the "*International Association for Vegetation Science*"

Keynote speaker at international congresses, such as *International Association for Vegetation Science* 2009, *International Biogeographical Society* 2011, *European Vegetation Survey* (2019), *Hellenic Ecological Society* (2021)

## 10 Selected publications

1. **Chiarucci, A.**, Guarino, R., Pasta, S., Rosa, A. La, Cascio, P. Lo, Médail, F., Pavon, D., Fernández- Palacios, J.M., & Zannini, P. (2021). Species–area relationship and small- island effect of vascular plant diversity in a young volcanic archipelago. *Journal of Biogeography*, March, jbi.14253. <https://doi.org/10.1111/jbi.14253>
2. Zannini, P., Frascaroli, F., Nascimbene, J., Persico, A., Halley, J. M., Stara, K., Midolo, G., & **Chiarucci, A.** (2021). Sacred natural sites and biodiversity conservation: a systematic review. *Biodiversity and Conservation*, 30, 3747–3762. <https://doi.org/10.1007/s10531-021-02296-3>
3. Lelli, C., Nascimbene, J., Alberti, D., Agostini, N., Zoccola, A., Piovesan, G., & **Chiarucci, A.** (2021). Long- term changes in Italian mountain forests detected by resurvey of historical vegetation data. *Journal of Vegetation Science*, 32, e12939. <https://doi.org/10.1111/jvs.12939>
4. **Chiarucci, A.**, & Piovesan, G. (2020). Need for a global map of forest naturalness for a sustainable future. *Conservation Biology*, 34, 368–372. <https://doi.org/10.1111/cobi.13408>
5. **Chiarucci, A.**, Nascimbene, J., Campetella, G., Chelli, S., Dainese, M., Giorgini, D., Landi, S., Lelli, C., & Canullo, R. (2019). Exploring patterns of beta- diversity to test the consistency of biogeographical boundaries: A case study across forest plant communities of Italy. *Ecology and Evolution*, 9, 11716–11723. <https://doi.org/10.1002/ece3.5669>
6. Hobohm, C., Janišová, M., Steinbauer, M., Landi, S., Field, R., Vanderplank, S., Beierkuhnlein, C., Grytnes, J.-A., Vetaas, O. R., Fidelis, A., de Nascimento, L., Clark, V. R., Fernández-Palacios, J. M., Franklin, S., Guarino, R., Huang, J., Krestov, P., Ma, K., Onipchenko, V., ... **Chiarucci, A.** (2019). Global endemics-area relationships of vascular plants. *Perspectives in Ecology and Conservation*, 17(2), 41–49. <https://doi.org/10.1016/j.pecon.2019.04.002>
7. Hoffmann, S., Beierkuhnlein, C., Field, R., Provenzale, A., & **Chiarucci, A.** (2018). Uniqueness of Protected Areas for Conservation Strategies in the European Union. *Scientific Reports*, 8, 6445. <https://doi.org/10.1038/s41598-018-24390-3>
8. **Chiarucci, A.**, Fattorini, S., Foggi, B., Landi, S., Lazzaro, L., Podani, J., & Simberloff, D. (2017). Plant recording across two centuries reveals dramatic changes in species diversity of a Mediterranean archipelago. *Scientific Reports*, 7, 5415. <https://doi.org/10.1038/s41598-017-05114-5>
9. Amici, V., Santi, E., Filibeck, G., Diekmann, M., Geri, F., Landi, S., Scoppola, A., **Chiarucci, A.** (2013). Influence of secondary forest succession on plant diversity patterns in a Mediterranean landscape. *Journal of Biogeography*, 40: 2335–2347. <http://doi.org/10.1111/jbi.12182>
10. **Chiarucci, A.**, Bacaro, G., & Scheiner, S. M. (2011). Old and new challenges in using species diversity for assessing biodiversity. *Philosophical Transactions of the Royal Society B*, 366: 2426–2437. <http://doi.org/10.1098/rstb.2011.0065>