

# CV Marta Gaia Sperandii

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## *Current position*

- 09/2020 - present: Postdoctoral Researcher at the Desertification Research Centre (CSIC-UV-GV). Moncada (Valencia), Spain. Main tasks: Investigate the drivers of temporal stability in plant and arthropod communities using data from the **Biodiversity Exploratories**. Managing and performing analyses on the **LOTVS collection** of vegetation time-series. Sampling a large biodiversity experiment to study the temporal stability of vegetation communities.

## *Keywords*

Temporal dynamics, Ecosystem stability, Vegetation Ecology, Biodiversity, Coastal dunes, Dry grasslands.

## *Education*

- 11/2016 - 10/2019: PhD in *Molecular, Cellular and Environmental Biology - curriculum Environmental Biology* (Università degli studi Roma Tre, Rome, Italy). Thesis: “Investigating patterns and drivers of temporal changes in taxonomic and functional diversity of coastal habitats”.

- 09/2013 - 09/2015: M.Sc in *Conservation and restoration of forest environments and soil defense* (Università degli studi della Tuscia, Viterbo, Italy). Thesis: “Investigations on the ecology, distribution and phytosociology of Lobel’s Maple”. Mark obtained: 110/100 *cum laude*.
- 09/2012 - 05/2013: Integrationskurs - Intensive German course (Volkshochschule Berlin - Neukölln, Berlin, Germany).
- 04/2011 - 11/2011: Post-graduate Diploma in *Energy and Environment Management* (Il Sole24ORE Business School, Rome, Italy).
- 09/2005 - 07/2010: Bachelor’s Degree in *Landscape and Environmental Planning and Management* (Università degli Studi di Roma “Sapienza”). Thesis: “Eco-industrial districts as a challenging tool to combine economic growth and environmental sustainability: the case of the Sacco River Valley”. Mark obtained: 110/110.
- 09/2000 - 07/2005: High school Diploma with an emphasis on Humanities (Liceo Classico E. Montale, Rome, Italy). Mark obtained: 98/100.

## ***Work Experience***

- 10/2021 - 02/2022: Contract Professor. Università degli studi Roma Tre, Rome, Italy. Main tasks: Preparing material, giving seminars and participating to teaching activities for the 2021/2022 course in “Ecology” (Bachelor’s degree in “Biological Sciences”).
- 10/2020 - 02/2021: Contract Professor. Università degli studi Roma Tre, Rome, Italy. Main tasks: Preparing material, giving seminars and participating to teaching activities for the 2020/2021 course in “Ecology” (Bachelor’s degree in “Biological Sciences”).
- 12/2019 - 03/2020: Contract Researcher. Università degli studi Roma Tre, Rome, Italy. Main tasks: Analysing temporal patterns of invasion by non-native species in coastal dune ecosystems. Funded by the project: “Developing state-of-the-art remote sensing tools for monitoring the impact of invasive plant species in coastal ecosystems in Israel and Italy” (“DERESEMII”).
- 11/2017 - 03/2018: Environmental educator. Environmental association **Marevivo**, Rome, Italy.
- 09/2016 - 09/2016 and 07/2016 - 07/2016: Collect Earth expert. Food and Agriculture Organization of the United Nations- **FAO**, Rome, Italy. Main tasks: Collecting, analysing and evaluating forest data for the “Global LULUCF assessment”, an international project aimed at identifying and quantifying land use/land cover trends through visual interpretation of high resolution images.
- 05/2016 - 06/2016: Environmental consultant. **HydranGea s.r.l.**, Rome, Italy. Main tasks: Floristic and vegetation sampling, creation of vegetation maps and participation in the development of Environmental Monitoring Plans for three dismissed nuclear sites in Italy (Casaccia - RM, Trino, VC - Caorso, PC).
- 07/2015 - 02/2016: Intern. Laboratorio di Geobotanica, Università della Tuscia, Viterbo, Italy. Main tasks: Participation in the research project “Biodiversity patterns at multiple spatial scales in semi-natural grasslands of Abruzzo Lazio and Molise National Park (PNALM)”. Field sampling and plant identification.
- 11/2011 - 06/2012: Intern. Heras Energia & Ambiente srl, Rome, Italy. Main tasks: Business planning, funding opportunities, authorization procedures for biogas plants.

## *Publications in journals indexed in Web of Science*

1. Renault D., Hess M.C.M., Braschi J., Cuthbert R.N., **Sperandii** M.G., Bazzichetto M., ... & Massol François. 2022. Advancing biological invasion hypothesis testing using functional diversity indices. *Science of the Total Environment*. DOI: **10.1016/j.scitotenv.2022.155102**
2. Yannelli F., Bazzichetto M., Conradi T., Pattison Z., Andrade B.O., Anibaba Q., ... & **Sperandii** M.G. 2022. Fifteen emerging challenges and opportunities for vegetation science - A horizon scan by early career researchers. *Journal of Vegetation Science*. DOI: **10.1111/jvs.13119**
3. **Sperandii** M.G., de Bello F., Valencia E., Götzenberger L., Bazzichetto M., Galland T., ... & Lepš J. 2022. LOTVS: a global collection of permanent vegetation plots. *Journal of Vegetation Science*. DOI: **10.1111/jvs.13115**
4. Cascone S., **Sperandii** M.G., Cao Pinna L., Marzialesi F., Carranza M.L., & Acosta A.T.R. 2021. Exploring Temporal Trends of Plant Invasion in Mediterranean Coastal Dunes. *Sustainability* 13(24): 13946. DOI: **10.3390/su132413946**
5. Bonari G., Fantinato E., Lazzaro L., **Sperandii** M.G., Acosta A.T.R., Allegrezza, M., ... & Bagella S. 2021. Shedding light on typical species: implications for habitat monitoring. *Plant Sociology* 58:157–166. DOI: **10.3897/pls2020581/08**
6. Biurrún I., Pielech R., Dembicz I., Gillet F., Kozub L., Marcenò C., ... **Sperandii** M.G., ... & Dengler J. 2021. Benchmarking plant diversity of Palaearctic grasslands and other open habitats. *Journal of Vegetation Science* 32(4): e13050. DOI: **10.1111/jvs.13050**
7. Sabatini F.M., Lenoir J., Hattab T., Arnst E.A., Chytrý M., Dengler J., ... **Sperandii** M.G., ... & Bruehlheide H. 2021. sPlotOpen – An environmentally balanced, open-access, global dataset of vegetation plots. *Global Ecology and Biogeography* 30: 1740–1764. DOI: **10.1111/geb.13346**
8. **Sperandii** M.G., Barták V., Carboni M., Acosta A.T.R. 2021. Getting the measure of the biodiversity crisis in Mediterranean coastal habitats. *Journal of Ecology*. DOI: **10.1111/1365-2745.13547**
9. Lampinen J., Tuomi M., Fischer L.K., Neuenkamp L., Alday J.G., Bucharova A., ... **Sperandii** M.G., ... & Klaus V.H. (2021). Acceptance of near-natural greenspace management relates to ecological and socio-cultural assigned values among European urbanites. *Basic and Applied Ecology* 50: 119:131. DOI: **10.1016/j.baae.2020.10.006**
10. **Sperandii** M.G., Barták V., & Acosta A.T.R. 2020. Effectiveness of the Natura 2000 network in conserving Mediterranean coastal dune habitats. *Biological conservation* 248: 108689. DOI: **10.1016/j.biocon.2020.108689**
11. Filibeck G., **Sperandii** M.G., Bragazza L., Bricca A., Chelli S., Maccherini S., ... & Cancellieri L. (2020). Competitive dominance mediates the effects of topography on plant richness in a mountain grassland. *Basic and Applied Ecology* 48: 112-123. DOI: **10.1016/j.baae.2020.09.008**
12. Fischer L.K., Neuenkamp L., Lampinen J., Tuomi M., Alday J.G., Bucharova A., ... **Sperandii** M.G., ... & Klaus V. 2020. Public attitudes toward biodiversity-friendly greenspace management in Europe. *Conservation letters*: e12718. DOI: **10.1111/conl.12718**
13. Kattge J., Bönsch G., Díaz S., Lavorel S., Prentice I.C., Leadley P., ... **Sperandii** M.G., ... & Wirth C. 2020. TRY plant trait database-enhanced coverage and open access. *Global Change Biology* 26(1): 119-188. DOI: **10.1111/gcb.14904**
14. Bazzichetto M., **Sperandii** M.G., Malavasi M., Carranza M.L., & Acosta A.T.R. 2020. Disentangling the effect of coastal erosion and accretion on plant communities of Mediterranean dune ecosystems. *Estuarine, Coastal and Shelf Science*: 106758. DOI: **10.1016/j.ecss.2020.106758**

15. Filibeck G., Cancellieri L., Bartolucci F., Becker U., Conti F., Maestri S., Mürz M., Schommer E., **Sperandii** M.G. & Becker T. 2019. *Festuca valesiaca* Schlecht. ex Gaudin newly discovered in the Central Apennines (Italy): a further example of steppe relict in the Abruzzo “dry valleys”. *Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology*. DOI: **10.1080/11263504.2019.165178**
16. Filibeck G., **Sperandii** M.G., Bazzichetto M., Mancini L.D., Rossini F., & Cancellieri L. 2019. Exploring the drivers of vascular plant richness at very fine spatial scale in sub-Mediterranean limestone grasslands (Central Apennines, Italy). *Biodiversity and Conservation* 28: 2701-2725. DOI: **10.1007/s10531-019-01788-7**
17. Marzioletti F., Giulio S., Malavasi M., **Sperandii** M.G., Acosta A.T.R., & Carranza M.L. 2019. Capturing Coastal Dune Natural Vegetation Types Using a Phenology-Based Mapping Approach: The Potential of Sentinel-2. *Remote Sensing* 11(12): 1506. DOI: **10.3390/rs11121506**
18. **Sperandii** M.G., Bazzichetto M., Gatti F., & Acosta A.T.R. 2019. Back into the past: Resurveying random plots to track community changes in Italian coastal dunes. *Ecological Indicators* 96: 572-578. DOI: **10.1016/j.ecolind.2018.09.039**
19. **Sperandii** M.G., Bazzichetto M., Acosta A.T.R., Barták V., & Malavasi M. 2019. Multiple drivers of plant diversity in coastal dunes: A Mediterranean experience. *Science of The Total Environment* 652: 1435-1444. DOI: **10.1016/j.scitotenv.2018.10.299**
20. Dengler J., Wagner V., Dembicz I., García-Mijangos I., Naqinezhad A., Boch S., ... **Sperandii** M.G., ... & Janišová M. 2018. GrassPlot—a database of multi-scale plant diversity in Palearctic grasslands. *Phytocoenologia* 48(3): 331-347. DOI: **10.1127/phyto/2018/0267**
21. Filibeck G., Cancellieri L., **Sperandii** M.G., Belonovskaya E., Sobolev N., Tsasarevskaya N., ... & Conti F. 2018. Biodiversity patterns of dry grasslands in the Central Apennines (Italy) along a precipitation gradient: experiences from the 10th EDGG Field Workshop. *Bulletin of the Eurasian Dry Grassland Group* 36: 25-41. DOI: **https://doi.org/10.21256/zhaw-3521**
22. **Sperandii** M.G., Prisco I. & Acosta, A.T.R. 2018. Hard times for Italian coastal dunes: insights from a diachronic analysis based on random plots. *Biodiversity and Conservation* 27(3): 633-646. DOI: **10.1007/s10531-017-1454-1**
23. **Sperandii** M.G., Prisco I., Stanisci A. & Acosta, A.T.R. 2017. RanVegDunes-A random plot database of Italian coastal dunes. *Phytocoenologia* 47(2): 231-232. DOI: **10.1127/phyto/2017/0198**
24. Cancellieri L., **Sperandii** M.G. & Filibeck G., 2017. First record of the steppic relict *Astragalus exscapus* L. subsp. *exscapus* in the Apennines (Abruzzo, Italy), and biogeographic implications. *Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology* 151(6): 944-948. DOI: **10.1080/11263504.2017.1311963**
25. Cancellieri L., Mancini L.D., **Sperandii** M.G., Filibeck G., 2017. In and out: Effects of shoot- vs. rooted-presence sampling methods on plant diversity measures in mountain grasslands. *Ecological Indicators* 72: 315-321. DOI: **10.1016/j.ecolind.2016.08.029**

## ***Publications in journals not indexed in Web of Science***

1. Filibeck G., Cancellieri L., **Sperandii** M.G., Dengler J., Biurrun I. 2017. Invitation to the 10th EDGG Field Workshop “Biodiversity patterns across a precipitation gradient in the Central Apennine mountains”. *Bulletin of the European Dry Grassland Group* 33: 3-12. DOI: **10.21570/EDGG.Bull.33.3-12**

## Conferences

- **Sperandii** M.G., Bazzichetto M., Malavasi M., Barták V., Carboni M., de Bello F., Acosta A.T.R. (2021). Drivers of temporal changes in Mediterranean coastal dune habitats. 54th International Congress of the Italian Society of Vegetation Science (SISV) “Twenty years in the third millennium with Vegetation Science” (online meeting). Book of Abstracts. p.49. Oral communication.
- **Sperandii** M.G., de Bello F., Bazzichetto M., Valencia E., Götzenberger L., Lepš J., the Biodiversity Exploratories team, Gossner M.M. (2021). Land-use modulates the influence of different diversity facets on ecosystem stability. 63rd IAVS annual symposium “Vegetation goes Virtual” (online meeting). Book of Abstract. p.156. Oral communication.
- **Sperandii** M.G., Bazzichetto M., Malavasi M., Barták V., Carboni M., de Bello F., Acosta A.T.R. (2021). Drivers of temporal changes in Mediterranean coastal dune habitats. 29th Meeting of the European Vegetation Survey “Revegetating Europe – Contributions of the EVS to the UN Decade on Ecosystem Restoration” (online meeting). Book of Abstracts. p.62. Oral communication.
- **Sperandii** M.G., Barták V., Acosta A.T.R. (2019). Through the lens of time: experiences from a resurveying study of coastal dune ecosystems in Central Italy. In Gavilán R.G. & Gutiérrez-Girón A. (Eds.). 28th Meeting of the European Vegetation Survey “Vegetation Diversity and Global Change”. Book of Abstracts. p.10. Oral communication.
- **Sperandii** M.G., Barták V., Acosta A.T.R. (2019). Multi-temporal analysis of coastal dune ecosystems in Central Italy: experiences from a resurveying study. In Diekmann M. (Ed.). 62nd Annual Symposium of the International Association for Vegetation Science “Vegetation Science and Biodiversity Research”. Book of Abstracts. p.228. Poster communication.
- **Sperandii** M.G., Barták V., Acosta A.T.R. (2019). Through the lens of time: experiences from a resurveying study of coastal dune ecosystems in Central Italy. In Riveccio G. e Bagella S. (Eds.). 53° Congresso della Società Italiana di Scienze della Vegetazione “Gestione sostenibile degli habitat: biodiversità, plant traits, servizi ecosistemici”. Abstract book. p.52. Università degli Studi di Sassari. ISBN 979-12-200-4980-1. Oral communication.
- **Sperandii** M.G., Prisco I., Stanisci A., Acosta A.T.R. (2018). Using RanVegDunes, a random plot database of Italian coastal dunes. 2018 LifeWatch Italy Annual Conference. Abstract book. p.19. Cnr Edizioni. ISBN 9788880803188. Poster communication.
- **Sperandii** M.G., Acosta A.T.R. (2017). Tracking temporal changes in Italian coastal dunes: first results from a 12-years resurvey of a small area near Rome (Italy). In Loidi J. et al (Eds.). 26th Congress of the European Vegetation Survey “Diversity patterns across communities in the frame of global change: conservation challenges” (p. 103). Book of Abstracts. Universidad del País Vasco / Euskal Herriko Unibertsitatea, Argitaipen Zerbitzua, Bilbao. Poster communication.
- **Sperandii** M.G., Prisco I., Acosta A.T.R. (2017). What has happened to coastal dune vegetation in the last decade? A diachronic analysis based on random plots. In Guarino R., Bazan G., Barbera G. (Eds.). 60th IAVS annual symposium “Vegetation patterns in natural and cultural landscapes”. Abstracts book (p. 316). Palermo University Press, Palermo. Poster communication.
- **Sperandii** M.G., Prisco I., Stanisci A., Acosta A.T.R. (2017). Introducing RanVegDunes, a random plot-database of Italian coastal dunes. In Buldrini F., Chiarucci A., Donati D., Lelli C., Nascimbene J., Pezzi G., A. Velli A. (Eds.). Atti del 51° congresso della Società Italiana di Scienza della Vegetazione “Servizi Ecosistemici e Scienza della Vegetazione” (p. 77). Dipartimento di Scienze Biologiche, Geologiche e Ambientali Alma Mater Studiorum – Università di Bologna, Bologna. Poster communication.
- **Sperandii** M.G., Spada F., Massimi M., Agrillo E., 2016. Coenology of *Acer cappadocicum* subsp. *lobelii* in Italy. Book of Abstracts - Posters. 25th Meeting of European Vegetation Survey, Rome, 2013, April 6-9. pp. 96. Poster communication.

## Memberships

- Member of the International Association for Vegetation Science (IAVS).

- Member of the Italian Society of Vegetation Science.
- Between 2019 and 2021, I was in the Steering Committee of the IAVS working group “Young Scientists”.

## *Peer review*

Reviewer for the following journals: *Ecological Monographs*, *Diversity and Distributions*, *Journal of Vegetation Science*, *Applied Vegetation Science*, *Biodiversity & Conservation*, *Science of the Total Environment*, *Journal of Environmental Management*, *Journal of Environmental Planning and Management*, *Mediterranean Botany*, *Plant Sociology*, *Journal of Forestry Research*. (more info on **my Publons profile**).

External reviewer of research proposals for the National Research, Development and Innovation Office of Hungary (NKFIH).

## *Mentoring*

- Gatti F., 2018. “La vegetazione costiera psammofila dell’Italia centrale: un’analisi multitemporale” (Master’s thesis).
- Cascone S., 2020. “Analisi dei cambiamenti temporali della macchia mediterranea lungo le coste del Lazio” (Master’s thesis).

## *Organization of conferences, symposia, workshops*

- Online workshop “Emerging challenges in Vegetation Science” (October 13th-14th 2020). Organized with the IAVS Young Scientists Steering Committee.
- Online workshop “Dalla Fitosociologia al monitoraggio degli habitat: specie caratteristiche, specie diagnostiche, specie tipiche” (October 9th 2020). Organized with a team of the Italian Society of Vegetation Science.
- Support in the organization of the 10th European Dry Grasslands Group (EDGG) Field Workshop (3-11 June 2017, Central Apennines)
- Support in the organization of the 25th Workshop of European Vegetation Survey (6-9 April 2016, Rome)

## *Workshops attended*

- 13-14/06/2019. Workshop “Sampling and analyzing data in vegetation ecology”, organized by the Ecological section of the Italian Botanical Society in Siena (Italy).
- 3-7/06/2019. Working group meeting on Biological invasions organized by the Groupement de Recherche CNRS 3647 Invasions Biologiques in St. Malo (France).
- 23-26/06/2018. Field Workshop “Biodiversity patterns in karst grasslands: structural aspects and functional responses at small spatial scales”, organized by the Ecological section of the Italian Botanical Society in Pescasseroli (Italy).

## *Other activities*

- Invited talk at the Institut für Biologie, Bereich Pflanzenwissenschaften, Universität Graz, Austria. 19/03/2019. Multi-temporal analysis of coastal dune ecosystems in Central Italy: experiences from a resurveying study.