

CV Manuele Bazzichetto

2020



Contacts and socials

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- Web of Science Research ID: <https://publons.com/researcher/K-5616-2019/>

Current position

Visiting researcher in Francesco de Bello's lab (Centro de Investigaciones sobre Desertificación - CIDE, Moncada, Valencia).

Previous position

Postdoctoral researcher at the Université de Rennes 1 (**Phenome Research Team**, PI: **Prof. David Renault**), where I was dealing with plant invasion in the sub-Antarctic islands. (End of contract: 02/12/2020).

Research interests

Vegetation ecology; Biological invasions; Ecological informatics; Remote sensing; Ecological modelling; Spatial ecology; Species distribution modelling; Landscape ecology; Conservation biology.

Education

- 05/2019: PhD in *Science, technology and biotechnology for sustainability* (Università degli Studi della Tuscia). Thesis: "Monitoring plant diversity in Mediterranean coastal landscapes: integration of field collected and remotely sensed data"
- 02/2015: Master's Degree in *Biodiversity and ecosystems management* (Università di Roma Tre). Thesis (110/110 *cum laude*): "Beach litter composition and accumulation dynamic along two coastal sites of central Italy"

- 10/2011: Bachelor's Degree in *Ecology* (Università di Roma Tor Vergata). Thesis: "Analysing skeleton anomalies in *Atherina boyeri* (Risso, 1810) to assess the environmental quality of two Albanian lagoons"

Publications

- Rocchini, D., Iannacito, M., Thouverai, E., Marcantonio, M., Da Re, D., Bacaro, G., **Bazzichetto, M.**, Bernardi, A., Foody, G.M., Furrer, R., Larsen, S., Lenoir, J., Malavasi, M., Montagni, A., Moudry, V., Naimi, B., Payne, D., Ricotta, C., . . . , Wegmann, M. *rasterdiv: an Information Theory tailored R package for measuring diversity from space: to the origin and back.* (*under review in Methods in Ecology and Evolution*).
- Malavasi, M., **Bazzichetto, M.**, Komarek, J., Moravec, D., Moudry, V., Rocchini, D., Bagella, S., Acosta, A.T.R. & Carranza, M.L. *UAV-based monitoring of eco-morphological processes in Mediterranean coastal dunes.* (*under review in Applied Vegetation Science*).
- **Bazzichetto, M.**, Massol, F., Carboni, M., Lenoir, J., Lembrechts, J.J., Joly, R., & Renault, D. *Once upon a time in the south: local drivers of plant invasion in the harsh sub-Antarctic islands.* **Recommended by PCI Ecology.**
- **Bazzichetto, M.**, Sperandii, M.G., Malavasi, M., Carranza, M.L., & Acosta, A.T.R.. *Disentangling the effect of coastal erosion and accretion on plant communities of Mediterranean dune ecosystems.* (2020). *Estuarine, Coastal and Shelf Science*, 106758. <https://doi.org/10.1016/j.ecss.2020.106758>
- 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*, 1-25. <https://doi.org/10.1007/s10531-019-01788-7>
- Malavasi, M., Barták, V., Jucker, T., Acosta, A.T.R., Carranza, M.L., & **Bazzichetto, M.** (2019). *Strength in Numbers: Combining Multi-Source Remotely Sensed Data to Model Plant Invasions in Coastal Dune Ecosystems.* *Remote Sensing*, 11(3), 275. <https://doi.org/10.3390/rs11030275>
- 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. <https://doi.org/10.1016/j.ecolind.2018.09.039>
- Marzialetti F., **Bazzichetto M.**, Giulio S., Acosta A.T.R., Stanisci A., Malavasi M., & Carranza M.L. (2019). *Modelling Acacia saligna invasion on the Adriatic coastal landscape: An integrative approach using LTER data.* In: Mazzocchi MG, Capotondi L, Freppaz M, Lugliè A, Campanaro A (Eds) *Italian Long-Term Ecological Research for understanding ecosystem diversity and functioning. Case studies from aquatic, terrestrial and transitional domains.* *Nature Conservation* 34: 127–144. <https://doi.org/10.3897/natureconservation.34.29575>
- Sperandii, M. G., **Bazzichetto, M.**, Acosta, A.T.R., Barták, V., & Malavasi, M. (2018). *Multiple drivers of plant diversity on coastal dunes: A Mediterranean experience.* *Science of The Total Environment*, 652, 1435-1444. <https://doi.org/10.1016/j.scitotenv.2018.10.299>
- **Bazzichetto, M.**, Malavasi, M., Bartak, V., Acosta, A.T.R., Rocchini, D., & Carranza, M. L. (2018). *Plant invasion risk: A quest for invasive species distribution modelling in managing protected areas.* *Ecological Indicators*, 95, 311-319. <https://doi.org/10.1016/j.ecolind.2018.07.046>
- **Bazzichetto, M.**, Malavasi, M., Barták, V., Acosta, A.T.R., Moudry, V., & Carranza, M. L. (2018). *Modeling plant invasion on Mediterranean coastal landscapes: An integrative approach using remotely sensed data.* *Landscape and Urban Planning*, 171, 98-106. <https://doi.org/10.1016/j.landurbplan.2017.11.006>
- Battisti, C., **Bazzichetto, M.**, Poeta, G., Pietrelli, L., & Acosta, A.T.R. (2017). *Measuring non-biological diversity using commonly used metrics: Strengths, weaknesses and caveats for their application in beach litter management.* *Journal of coastal conservation*, 21(2), 303-310. <https://doi.org/10.1007/s11852-017-0505-9>
- **Bazzichetto, M.**, Malavasi, M., Acosta, A.T.R., & Carranza, M. L. (2016). *How does dune morphology shape coastal EC habitats occurrence? A remote sensing approach using airborne LiDAR on the Mediterranean coast.* *Ecological indicators*, 71, 618-626. <https://doi.org/10.1016/j.ecolind.2016.07.044>
- Poeta, G., Battisti, C., **Bazzichetto, M.**, & Acosta, A.T.R. (2016). *The cotton buds beach: Marine litter assessment along the Tyrrhenian coast of central Italy following the marine strategy framework directive criteria.* *Marine pollution bulletin*, 113(1-2), 266-270. <https://doi.org/10.1016/j.marpolbul.2016.09.035>

In preparation:

- De Toma, A., Carboni, M., **Bazzichetto, M.**, Malavasi, M., Cutini, M. *Alpine shrub encroachment in the central Apennines: current patterns and temporal trends.*
- Renault, D., Hess, M., Braschi, J., Sperandii, M.G., **Bazzichetto, M.**, Chabrierie, O., Thiébaud, G., Buisson, E., Grandjean, F., Bittebiere, A., Mouchet, M., & Massol, F. *The implementation of functional diversity indices for improved assessments of the ecological effects of biological invasions and restoration measures.*

Conferences

- Vegetation diversity and global changes. 28th Congress of the European Vegetation Survey, 2nd - 6th September 2019, Madrid, Spain.
- Vegetation science and biodiversity research. 62th Symposium of the International Association for Vegetation Science, 14th - 19th July 2019, Bremen, Germany.
- Research days. Università degli Studi del Molise, 1st March 2018, Pesche (IS), Italy.
- Diversity patterns across communities in the frame of global change: conservation challenges. 26th Congress of the European Vegetation Science, 13th - 16th September 2017, Bilbao, Spain.
- Vegetation patterns in natural and cultural landscapes. 60th Symposium of the International Association for Vegetation Science, 20th - 24th June 2017, Palermo (PA), Italy.
- Research days. Università degli Studi del Molise, 1st - 2nd March 2017, Pesche (IS), Italy.
- Challenges of Anthropocene and the role of Landscape Ecology. S.I.E.P. (Società Italiana di Ecologia del Paesaggio), 26th - 28th May 2016, Asti (AT), Italy.
- Research days. Università degli Studi del Molise, 1st - 2nd March 2016, Pesche (IS), Italy.
- In the Wake of Plastics International Conference. Università Ca' Foscari, 13th - 15th October 2015, Venice, Italy.
- National Marine Litter Forum. MARLISCO, 16th January 2015, Rome, Italy.

Talks and presentations

- Invited talk: **Bazzichetto M.**, Massol F., Lenoir J., Carboni M., Rocchini D., Lebouvier M. & Renault D. So far so close: history and future of plant invasion in sub-Antarctic islands in the context of global changes. Università di Roma Tre, 23rd January 2020, Rome, Italy.
- Invited talk: **Bazzichetto M.**, Lenoir J., Massol F., Rocchini D., Lebouvier M. & Renault D. So far so close: history and future of biological invasions in sub-Antarctic islands in the context of global changes. Université de Lille, 11th October 2019, Lille, France.
- Oral communication: **Bazzichetto M.**, Lenoir J., Massol F., Rocchini D., Lebouvier M. & Renault D. Modelling the distribution of the non-native grass *Poa pratensis* (Poaceae) in sub-Antarctic islands. 62th IAVS (International Association for Vegetation Science) Symposium, 14th – 19th July 2019, Bremen, Germany.
- Poster: **Bazzichetto M.**, Malavasi M., Bartak V., Acosta A.T.R., Rocchini D. & Carranza M.L. Predicting alien species occurrence for plant biodiversity conservation in Natura 2000 coastal network. Research days, 1st March 2018, Pesche (Isernia), Italy.
- Poster: **Bazzichetto M.**, Malavasi M., Bartak V., Acosta A.T.R. & Carranza M.L. Predicting alien species occurrence for plant biodiversity conservation in Natura 2000 coastal network. 26th EVS (European Vegetation Survey) Congress, 13th – 16th September 2017, Bilbao, Spain.
- Oral communication: **Bazzichetto M.**, Malavasi M., Bartak V., Acosta A.T.R., Moudry V. & Carranza M.L. Modeling plant invasion on Mediterranean coastal dunes: an integrative approach using remotely sensed data. 60th IAVS (International Association for Vegetation Science) Symposium, 20th – 24th June 2017, Palermo, Italy.
- Oral communication and poster: **Bazzichetto M.**, Malavasi M., Bartak V., Acosta A.T.R., Moudry V. & Carranza M.L. Influence of propagule pressure, abiotic and biotic factors on the invasion process of a non-native taxon (*Carpobrotus* sp.) on a Tyrrhenian dune system. Research days, 1st – 2nd March 2017, Pesche (Isernia), Italy.
- Poster: **Bazzichetto M.**, Malavasi M., Acosta A.T.R. & Carranza M.L. How does dune morphology shape coastal EC habitats distribution? A remote sensing approach using airborne LiDAR on the Mediterranean coast. “Challenges of Anthropocene and the role of Landscape Ecology”, SIEP-IALE, 26th – 28th May 2016, Asti, Italy.

Academic services

- Member of the International Association for Vegetation Science (IAVS).
- Member of the “Young Scientists” working group (IAVS).
- Member of the steering committee of the “EcoInformatics” working group (IAVS).

Editorial services

Editor of *Remote Sensing (Ecological section)*.

Reviewer for: *Applied Vegetation Science*; *Journal of Vegetation Science*; *Scientific Reports*; *Diversity and Distributions*; *Estuarine, coastal and shelf science* (for details see <https://publons.com/researcher/K-5616-2019/>).

Research experiences

- Department of Biodiversity and Molecular Ecology, Fondazione Edmund Mach, 12th November - 12th December 2017, San Michele all'Adige (Trento), Italy.
- Department of Applied Geoinformatics and Spatial Planning, Czech University of Life Sciences, 5th April - 5th June 2017, Prague, Czech Republic.
- Department of Applied Geoinformatics and Spatial Planning, Czech University of Life Sciences, 10th October - 10th November 2016, Prague, Czech Republic.
- Department of Applied Geoinformatics and Spatial Planning, Czech University of Life Sciences, 21st May - 21st June 2016, Prague, Czech Republic.

Teaching

- Demonstrator. BSc Ecology: GIS in Ecology. Università di Roma Tre, December 2016, Rome, Italy.
- Demonstrator. BSc Ecology: GIS in Ecology. Università di Roma Tre, December 2015, Rome, Italy.

Funding

- 34 TOMST TMS4 microclimate loggers funded by the **SoilTemp consortium** (2720 eur.).
- IAVS travel grant (500 eur.).

Other activities

- Member of the 57° Summer Campaign “*French Southern and Antarctic Lands*” for the French Polar Institute. Collection of invasive plants occurrence data on Possession Island (Crozet archipelago) following a systematic sampling of the environmental space. Possession Island (Crozet archipelago), 7th November 2019 – 3rd January 2020.
- Workshop “Sampling and analyzing data in vegetation ecology”, organized by the Ecological section of the Italian Botanical Society, 13th - 14th June 2019, Siena (Italy).
- Working group meeting on Biological invasions organized by the Groupement de Recherche CNRS 3647 Invasions Biologiques, 3rd - 7th June 2019, St. Malo (France).
- Fifth International SPLIT REMOTE SENSING @ PROFESSIONAL SUMMER SCHOOL 2018, 11th – 17th June 2018, Prague, Czech Republic.
- Involvement in the writing of scientific projects (**ASICS**, proposed for funding by the BiodivERsA consortium).

Scientific references

- **Prof. Maria Laura Carranza** (carranza@unimol.it)
- **Prof. Alicia Teresa Rosario Acosta** (aliciateresarosario.acosta@uniroma3.it)

- **Marta Carboni** (marta.carboni@uniroma3.it)
- **Francois Massol** (francois.massol@univ-lille.fr)

Resumen (last update: 24/12/2020)

Since 2016, I published 11 scientific papers in well-established, peer-reviewed international journals. An additional manuscript, where I appear as first author, was recently recommended by PCI Ecology and is about to be submitted to an ISI journal (Bazzichetto M., Massol F., Carboni M., Lenoir J., Lembrechts J.J., Joly R., & Renault D. Once upon a time in the far south: Influence of local drivers and functional traits on plant invasion in the harsh sub-Antarctic islands), whereas two others are currently under review in, respectively, Applied Vegetation Science (Malavasi et al. UAV-based monitoring of eco-morphological processes in Mediterranean coastal dunes) and Methods in Ecology and Evolution (Rocchini et al. Rasterdiv: an Information Theory tailored R package for measuring diversity from space: to the origin and back).

Overall, I am the first author in 4 of these 11 papers, and these publications resulted from active collaborations with 9 international universities/research bodies from 5 different countries: Università di Roma TRE (Italy), Università di Trento (Italy), Fondazione Edmund Mach (Italy), Università degli Studi del Molise (Italy), Czech University of Life Sciences (Czech Republic), Commonwealth Scientific and Industrial Research Organisation - CSIRO (Australia), Université de Lille (France), Université de Picardie Jules Verne (France), University of Antwerp (Belgium).

More than 80% of my publications belong to the first quarter (Q1) in their area. All but two of my published papers have been published in journals with an impact factor above 3, and five of them in journals with an impact factors greater than 4. Until now, my works received 158 citations, with two papers being cited, respectively, 39 and 32 times since 2016 and another one receiving 24 citations since 2018. At the moment, I have an H-index of 7.