

# CV Manuele Bazzichetto

2020



## *Contacts and socials*

- Institutional e-mail: manuele.bazzichetto@univ-rennes1.fr
- Personal e-mail: manuele.bazzichetto@gmail.com
- ResearchGate: **Manuele Bazzichetto**
- GoogleScholar: **Manuele Bazzichetto**
- Twitter: **MBazzichetto**
- ORCID: <https://orcid.org/0000-0002-9874-5064>
- Web of Science Research ID: <https://publons.com/researcher/K-5616-2019/>
- Institutional web-page: **UniRennes1**

## *Current position*

I'm a postdoctoral researcher at the Université de Rennes 1 (**Phenome Research Team**, PI: **Prof. David Renault**), where I'm 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*

- **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. (PCI Ecology - recommendation process underway)*. <https://doi.org/10.1101/2020.07.19.210880>

- 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.**, 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.*
- 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.*

## *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).

## *Journal peer-review*

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 - 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 several projects (e.g. **Biodiversa calls**, check <https://www.coldregioninvasives.com/>).

## *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)