

# Stefano Mammola, PhD

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Personal Information	<b>Date of birth</b>	05 July 1988
	<b>Place of birth</b>	Chieri (TO), Italy
	<b>Gender</b>	Male (He/him)
	<b>Nationality</b>	Italian
	<b>Driving licence</b>	B

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Academic age	<b>PhD defence</b>	February 2017
	<b>First publication</b>	2014
	<b>Tenured</b>	Since November 2019

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Current position	<b>2019–ongoing</b>	Tenured Researcher. IRSA–Water Research Institute, Consiglio Nazionale delle Ricerche (CNR), Verbania-Pallanza, Italy
	<b>2022–2024</b>	Associated researcher. Finnish Museum of Natural History (LUOMUS), University of Helsinki, Helsinki, Finland

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Education	<b>2014–2017</b>	PhD program in Biology and Applied Biotechnologies (Doctoral School of Sciences and Innovative Technologies), University of Torino, Italy. Comprehensive final grade: <i>Excellent cum laude</i> . Tutor: Dr. Marco Isaia
	<b>2010–2013</b>	MSc Environmental Biology ( <i>curriculum</i> : biodiversity conservation), University of Torino, Italy. Comprehensive final grade: 110/110 <i>magna cum laude</i> . Tutor: Dr. Marco Isaia
	<b>2007–2010</b>	BSc Natural Sciences, University of Torino, Italy. Tutors: Dr. Dan Chamberlain and Prof. Antonio Rolando

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Previous positions & temporary jobs	<b>2020–2022</b>	Research sabbatical (24 months) at the Finnish Museum of Natural History–University of Helsinki, funded by European Commission through Horizon 2020 Marie Skłodowska-Curie Actions (MSCA) Individual fellowships (grant no. 882221)
	<b>2019</b>	12 months Post-Doctoral inter-reg Fellowship – Bando per l'internazionalizzazione San Paolo Anno 2018. Finnish Museum of Natural History (Finland) & University of Torino (Italy)
	<b>2018–2019</b>	15 months Post-Doctoral position at Department of Life Science and Systems Biology, University of Torino (since December 2017). Project CAVEAT " <i>The dark side of climate change</i> " (Grant Award: CSTO162355).
	<b>2016–Ongoing</b>	Regional and Global IUCN assessor. Member of the IUCN SSC Spider and Scorpion Specialist Group as a referent for the Italian fauna.

	<b>2017</b>	Research contract (9 months) in Urban Ecology funded by Fondazione Centro Conservazione e Restauro 'La Venaria Reale'. Study of the impact of web-spinning spider on historical buildings. Supervisor: Dr. Marco Nervo
	<b>2014–2015</b>	Research activities within the CAVELAB project " <i>From microclimate to climate change: caves as laboratories for the study of the effects of temperature on ecosystems and biodiversity</i> ". Funded by University of Torino and San Paolo company. Principal investigator: Dr. Marco Isaia
	<b>2009–2012</b>	Nature guide for high-school classes in Italy (Cinque Terre, Liguria) and the Canary Islands (Lanzarote and Isla Graciosa). Supervisor: Dr. Matteo Sturani
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Visiting	<b>2020–2022</b>	University of Helsinki, Finland (Host: Dr. Pedro Cardoso)
	<b>Apr 2019–Oct 2019</b>	University of Helsinki, Finland (Host: Dr. Pedro Cardoso)
	<b>Jan 2015–Jun 2015</b>	University of Barcelona, Spain (Host: Prof. Miquel A. Arnedo)
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Supervision	<b>2021–2024</b>	Co-supervision of Ilaria Vaccarelli (PhD student in Sustainable Development and Climate Change. IUSS Pavia. Internal Supervisor: Prof. Diana Galassi)
	<b>2021–2024</b>	Co-supervision of Veronica Nanni (PhD student in Sustainable Development and Climate Change. IUSS Pavia)
	<b>2022</b>	Supervision of two Erasmus+ students (Lorenzo Cresi and Davide Nepote Valentin). University of Helsinki
	<b>2021–2022</b>	Thesis co-advisor for 1 Master student, University of Pisa.
	<b>2014–2022</b>	Thesis co-advisor for 12 students (7 Bachelors and 5 Master), University of Turin.
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Teaching activities	<b>2019</b>	I passed the National Scientific Qualification exams (MIUR) at a level of Associate Professor in Ecology (05/C1), Zoology and Anthropology (05/B1) and Entomology and Plant Pathology (07/D1).
	<b>2019</b>	Lecturer in " <i>Species Distribution Modelling</i> " (2 days). Finnish Museum of Natural History (Helsinki, Finland).
	<b>2018</b>	Lecturer in " <i>Species distribution modelling with R: an introduction</i> " at CNR-IRSA (Verbania, Italy) (1 day). <a href="http://www.ise.cnr.it/it/news/corsi/corso-r-180405">http://www.ise.cnr.it/it/news/corsi/corso-r-180405</a>
	<b>2014–2021</b>	Teaching assistant experience in courses of BSc and MSc level in Zoology and Ecology at the University of Turin (Italy).
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Awards	<b>2021</b>	Shortlisted – Rachel Carson Prize 2020. British Ecological Society.
	<b>2018</b>	'E4 Award' finalist – Ecography Award 2017 for Excellence in Ecology and Evolution (Special issue: <a href="https://urlzs.com/QcG8B">https://urlzs.com/QcG8B</a> ). Awarded by The Nordic Society Oikos.
	<b>2018</b>	Certificate of excellence: First prize for the best poster. Awarded by 24th International Conference on Subterranean Biology' scientific committee.

- 2018** Post-doc travel grant for the 24th International Conference on Subterranean Biology. Awarded by International Society on Subterranean Biology.
- 2016** Roberto Marchetti prize (<https://www.ecologia.it/premi-s-it-e>) for the best oral presentation. Awarded by Società Italiana di Ecologia.
- 2016** Certificate of excellence: First prize for the best talk in Ecology & Behavior. Awarded by 20th International Congress of Arachnology' scientific committee.
- 2015** Certificate of excellence: Student award for the best talk in taxonomy and genetics. Awarded by 29th European Congress of Arachnology' scientific committee.
- 2015** Student travel grant for the 29th European Congress of Arachnology. Awarded by European Society of Arachnology.
- 2015** Prize "Naturalista dell'anno 2015" ("Naturalist of the Year 2015"). Awarded by Associazione Naturalisti Piemontesi.

### Linguistic and Computer skills

- Language** Italian (mother tongue), English (proficient), Spanish (basic)
- Computer skills** R, Python, QGIS, Suite Microsoft Office (Excel, Power Point, Word), Adobe Creative Suite (Photoshop, Illustrator)

### Publications

IF= impact factor  
Q= SJR quantile

(Metrics are given relative to the year of publication)

**ORCID id:** 0000-0002-4471-9055;

**ResearchGate:** [www.researchgate.net/profile/Stefano\\_Mammola](http://www.researchgate.net/profile/Stefano_Mammola)

**H-index:** 36 (Google Scholar); 30 (Scopus)

**Number of citations:** 4431 (Google Scholar); 3215 (Scopus)

#### 2024 -----

131. Saccò M\*, Mammola S\*, et al. (2024) Groundwater is a hidden global keystone ecosystem. *Global Change Biology* 30, e17066. [IF: 11.4, Q1] \*equal contribution

130. Zhang Z, Ma S, Bede-Fazekas Á, Mammola S, Qu M, Zhou J, Feng EY, Qin G, Lin Q (2024) Considering biotic interactions exacerbates the predicted impacts of climate change on coral-dwelling species. *Journal of Biogeography*, in press. [IF: 3.9, Q1]

#### 2023 -----

129. Mammola S, Adamo M, Antic D, Calevo J, Cancellario T, Cardoso P, Chamberlain D, Chialva M, Durucan F, Fontaneto D, Gonçalves D, Martínez A, Santini L, Rubio-López I, Sousa R, Villegas-Ríos D, Verdes A, Correia RA (2023) Drivers of species knowledge across the Tree of Life. *eLife* 12, RP88251. [IF: 8.7, Q1]

128. Mammola S, Falaschi M, Ficotola GF (2023) Biodiversity communication in the digital era through the Emoji Tree of Life. *Isience* 26, 15. [IF: 5.7, Q1]

127. Mammola S, et al. [20 authors] (2023) How much biodiversity is concealed in the word 'biodiversity'? *Current biology* 33, R59–R60. [IF: 10.8, Q1]

126. Santangeli A, Haukka A, Morris W, Arkkila S, Delhey K, Kempnaers B, Valcu M, Dale J, Lehtikainen A, Mammola S (2023) What drives our aesthetic attraction to birds?. *npj biodiversity* 2, 20 (2023). [IF: -, Q1]

125. Riva F, Graco-Roza C, Daskalova GN, Hudgins EJ, Lewthwaite JM, Newman E, Ryo M, Mammola S (2023) Towards a cohesive understanding of ecological complexity. *Science Advances* 9, eabq420. [IF: 13.0, Q1]

124. Meierhofer MB, Johnson JS, Perez-Jimenez J, Ito F, Webela PW, Wiantoro S, Bernard E, Tanalgo KC, Hughes A, Cardoso P, Lilley T, Mammola S (2023) Effective conservation of subterranean-roosting bats. *Conservation biology*, e14157. [IF: 7.5, Q1]

123. Vaccarelli I, Colado R, Pallarés S, Galassi DM, Sánchez-Fernández D, Di Cicco M, Meierhofer MB, Piano E, Di Lorenzo T, Mammola S (2023) A global meta-analysis reveals multilevel and context-dependent effects of climate change on subterranean ecosystems. *One Earth* 6, 1–13. [IF: 15.2, Q1]

122. Lunghi E, Mammola S, Martínez A, Hesselberg T (2023) Behavioural adjustments enable the colonization of subterranean environments. *Zoological Journal of the Linnean Society*, zlac133 [IF: 3.4, Q1]

121. Marjakangas EL, Santangeli A, Kujala H, Mammola S, Lehtikainen A (2023) Identifying 'climate keystone species' as a tool for conserving ecological communities under climate change. *Diversity and Distributions* 29, 1341–1354. [IF: 4.7, Q1]

120. Colado R, Abellán P, Pallarés S, [Mammola S](#), Milione R, Faille A, Fresneda J, Sánchez-Fernández D (2023) A dark side of conservation biology: protected areas fail in representing subterranean biodiversity. *Insect Conservation and Diversity* 16: 674–683. [IF: 3.8, Q1]
119. Nanni V, Plano E, Cardoso P, Isaia M, [Mammola S](#) (2023) An expert-based global assessment of threats and conservation measures for subterranean ecosystems. *Biological Conservation* 283: 110136. [IF: 6.2, Q1]
118. Correia R, [Mammola S](#) (2023) The searchscape of fear: A global analysis of internet search trends for biophobias. *People & Nature*, doi: 10.1002/pan3.10497. [IF: 7.0, Q1]
117. Haukka A, Lehtikoinen A, [Mammola S](#), Morris W, Santangeli A (2023) The iratebirds citizen science project: A dataset on Birds' Visual aesthetic attractiveness to humans. *Scientific Data* 10: 297. [IF: 9.5, Q1]
116. Gavish-Regev E, Frumkin A, Aharon S, Na'aman I, Ya'aran S, Langford B, Kolodny O, [Mammola S](#) (2023) The power of academic and public opinion in conservation: The case of Ayyalon Cave, Israel. *Integrative Conservation* 2, 73–79. [IF: -, Q: -] [Journal cover]
115. Nicolosi G\*, [Mammola S\\*](#), Verbrugge L, Isaia M (2023) Aliens in caves: the global dimension of biological invasions in subterranean ecosystems. *Biological Reviews* 98, 849–867. [IF: 12.5, Q1] \*equal contribution
114. Isaia M, [Mammola S.](#), Arnedo MA (2023). A relict subterranean spider (Araneae: Linyphiidae: *Troglohyphantes*) reveals a unique component of the biogeography of Corsica. *Insect Systematics and Diversity* 7, 2. [IF: 2.5, Q1]
113. [Mammola S](#), Viel N, Amiar D, Mani A, Hervé C, Heard SB, Fontaneto D, Pétilion J (2023) Taxonomic practice, creativity, and fashion: What's in a spider name? *Zoological Journal of the Linnean Society*, zlac097 [IF: 3.4, Q1]
112. Vaccarelli I, Cerasoli F, [Mammola S](#), et al. (2023) Environmental factors shaping copepod distributions in cave waters of the Lessinian unsaturated karst (NE-Italy). *Frontiers in Ecology and Evolution* 11, 2023 [IF: 3.7, Q1]
- 2022 -----**
111. [Mammola S](#), et al. [66 authors] (2022) The global spread of misinformation on spiders. *Current biology* 32, R871–R873. [IF: 10.8, Q1]
110. [Mammola S](#), et al. [65 authors] (2022) An expert-curated global database of online newspaper articles on spiders and spider bites. *Scientific Data* 9, 1–12. [IF: 6.4, Q1]
109. Ferreira RL, Bernard E, William da Cruz F Jr, Piló LB, Calux A, Souza-Silva M, Barlow J, Pompeu PS, Cardoso P, [Mammola S](#) [print] + 85 additional signatories online (2022) Brazilian cave heritage under siege. *Science* 375: 1238–1239. [IF: 47.7, Q1]
108. Cancellario T, Miranda R, Baquero E, Fontaneto D, Martínez A, [Mammola S](#) (2022) Climate change will redefine taxonomic, functional, and phylogenetic diversity of Odonata in space and time. *npj biodiversity* 1, 1. [IF: -, Q1]
107. Piano E, Nicolosi G, Mammola S, Balestra V, Baroni B, Bellopede R, Cumino E, Muzzolini N, Piquet A, Isaia M (2022) A literature-based database of the natural heritage, the ecological status and tourism-related impacts in show caves worldwide: Nature Conservation [IF: 2.7, Q2]
106. Santangeli A\*, [Mammola S\\*](#), Lehtikoinen A, Rajasärkkä A, Lindén A, Saastamoinen M. (2022) The effects of protected areas on the ecological niches of birds and mammals. *Scientific reports* 12, 11601. [IF: 4.9, Q1] \* equal contribution
105. Palacio F, Callaghan C, Cardoso P, Hudgins E, Jarzyna M, Ottaviani G, Riva F, Graco-Roza C, Shirey V, [Mammola S](#) (2022) A protocol for reproducible functional diversity analyses. *Ecography*, e06287. [IF: 6.5, Q1] [Editor Choice]
104. Milano F, Cardoso P, [Mammola S](#), Smith E, Isaia M (2022) Trends in habitat suitability and conservation status of aquatic spiders in Europe. *Biological Conservation* 275, 109767. [IF: 5.2, Q1]
103. Mammola S, Pavlek M, Huber BA, Isaia M, Ballarin F, Tolve M, Čupić I, Hesselberg T, Lunghi E, Mouron S, Graco-Roza C. (2022) A trait database and updated checklist for European subterranean spiders. *Scientific Data* 9, 236. [IF: 6.4, Q1]
102. Milano F, Borio L, Komposch C, Mammola S, Pantini P, Pavlek M, Isaia M (2022) Species conservation profiles of the endemic spiders *Troglohyphantes* (Araneae, Linyphiidae) from the Alps and the north-western Dinarides. *Biodiversity Data Journal* 10, e87261 [IF: 1.6, Q2]
101. [Mammola S](#), Piano E, Doretto A, Caprio E, Chamberlain D (2022). Measuring the influence of non-scientific features on citations. *Scientometrics* 127, 4123–4137. [IF: 3.2, Q1]
100. Adamo M, Sousa R, Wipf S, Correia AR, Lumia A, Mucciarelli M, [Mammola S](#) (2022) Dimension and impact of biases in funding for species and habitat conservation. *Biological Conservation* 272, 109636. [IF: 5.2, Q1]
99. Nanni V, [Mammola S](#), et al. (2022). Global response of conservationists across mass media likely constrained bat persecution due to COVID-19. *Biological Conservation* 13, 109591. [IF: 5.2, Q1]
98. Santangeli A, Buechley ER, Mammola S, Lambertucci SA. (2022) Priorities for research and action to prevent a New World vulture crisis. *Biological Conservation* 270, 109563. [IF: 5.2, Q1]
97. [Mammola S](#), Meierhofer MB, Borges PAV, Colado R, Culver DC, Deharveng L, Delić T, Lorenzo T Di, Dražina T, Ferreira RL, Fiasca B, Fišer C, Galassi DMP, Garzoli L, Gerovasileiou V, Griebler C, Halse S, Howarth FG, Isaia M, Johnson JS, Komerički A, Martínez A, Milano F, Moldovan OT, Nanni V, Nicolosi G, Niemiller ML, Pallarés S, Pavlek M, Piano E, Pipan T, Sanchez-Fernandez D, Santangeli A, Schmidt SI, Wynne JJ, Zagmajster M, Zakšek V, Cardoso P (2022) Towards evidence-based conservation of subterranean ecosystems. *Biological Reviews* 97, 1476–1510. [IF: 12.5, Q1]
96. Sousa R, da Silva JP, Douda K, [Mammola S](#) (2022) The cost of wars for biodiversity: a possible ecocide in Ukraine. *Frontiers in Ecology and the Environment* 20, 394–396. [IF: 11.2, Q1]

95. Macêdo RL, Franco AC, Kozłowsky-Suzuki B, [Mammola S](#), Dalu T, Rocha O (2022) The global social-economic dimension of biological invasions by plankton: grossly underestimated costs but a rising concern for water quality benefits?. *Water Research* 222, 118918. [IF: 13.4, Q1]
94. [Mammola S](#), Frigo I, Cardoso P (2022) Life in the darkness of caves. *Frontiers for young minds* 10, 657265. [IF: -, Q: -]
93. Graco-Roza C., ... [Mammola S](#) ... & Soininen, J. [99 authors] (2022) Distance decay 2.0—a global synthesis of taxonomic and functional turnover in ecological communities. *Global Ecology and Biogeography*, doi: 10.1111/GEB.13513 [IF: 7.1, Q1]
92. Mouron S, Eme D, Bellec A, Bertrand M, [Mammola S](#), Liébault F, Douady CJ, Malard F (2022). Unique and shared effects of local and catchment predictors over distribution of hyporheic organisms: does the valley rule the stream? *Ecography* 5, e06099. [IF: 6.5, Q1]
91. Colado R, Pallarés S, Fresneda J, [Mammola S](#), Rizzo V, Sánchez-Fernández D (2021) Environmental stability, not habitat temperature, influences thermal tolerance of subterranean beetles. *Ecology* 103, e3629. [IF: 5.5, Q1]
90. Isaia M, Arnedo MA, [Mammola S](#) (2022) A multi-layered approach uncovers overlooked taxonomic and physiological diversity in Alpine subterranean spiders (Araneae: Linyphiidae: *Troglohyphantes*). *Invertebrate Systematics* 36, 354–371 [IF: 2.5, Q1]
89. Meierhofer MB, Cardoso P, Lilley T, [Mammola S](#) (2022) The promise and perils of engineering cave climates. *Conservation biology*, e13927 [IF: 6.5, Q1]
88. Lappalainen HK, ... [Mammola S](#) ... Kulmala M [73 authors] (2022) Recent advances on the understanding of the Northern Eurasian environments and of the urban air quality in China – Pan Eurasian Experiment (PEEX) program perspective. *Atmospheric Chemistry & Physics* 22, 4413–4469. [IF: 6.1, Q1]
- 2021 -----**
87. Sánchez-Fernández D\*, Galassi DMP, Wynne JJ, Cardoso P, [Mammola S\\*](#) (2021) Don't forget subterranean ecosystems in climate change agendas. *Nature Climate Change* 11: 458–459. [IF: 18.7, Q1] \*Equal contribution
86. Adamo M, Chialva M, Calevo J, Bertoni F, Dixon K, [Mammola S](#) (2021) Plant scientists research attention is skewed towards colorful, conspicuous, and broadly distributed flowers. *Nature plants* 7: 574–578 [IF: 10.3, Q1]
85. [Mammola S](#), Pétilion, J, Hacala A, Monsimet J, Marti SL, Cardoso P & Lafage D (2021) Challenges and opportunities of species distribution modelling of terrestrial arthropod predators. *Diversity and Distribution* 27: 2596–2614. [IF: 4.4, Q1]
84. Macêdo RL, Sampaio Franco AC, Russo P, Collart T, [Mammola S](#), Jeppesen E, Wyss C, Branco C, dos Santos LN, Rocha O (2021) Climate and landscape changes enhance the global spread of a bloom-forming dinoflagellate related to fish kills and water quality deterioration. *Ecological Indicators* 133: 108408. [IF: 5.0, Q1]
83. [Mammola S](#), Carmona CP, Guillerme T, Cardoso P. (2021). Concepts and applications in functional diversity. *Functional ecology* 35: 1869–1885 [IF: 4.8, Q1]
82. Pekár S, Wolff JO, Černecká L, Birkhofer K, [Mammola S](#), Lowe EC, ... [45 authors] & Cardoso P (2021). The World Spider Trait database: a centralized global open repository for curated data on spider traits. *Database*. [IF: 3.5, Q1]
81. Iannella M, Fiasca B, Di Lorenzo T, Di Cicco M, Biondi M, [Mammola S](#), Galassi DMP (2021) Getting the 'most out of the hotspot' for practical conservation of groundwater biodiversity. *Global ecology and conservation* 31: e01844. [IF: 3.3, Q1]
80. Riva F, [Mammola S](#) (2021) Rarity facets of biodiversity: integrating Zeta diversity and Dark diversity to understand the nature of commonness and rarity. *Ecology & Evolution* 11: 13912–13919. [IF: 2.2, Q1]
79. Jaturapruerk R, Fontaneto D, [Mammola S](#), Maiphae S (2021) Potential niche displacement in species of aquatic bdelloid rotifers between temperate and tropical areas. *Hydrobiologia* 848: 4903–4918. [IF: 2.5, Q1]
78. Wynne, JJ, Howarth, FG, [Mammola S](#), et al. [56 authors] (2021) A conservation roadmap for the subterranean biome. *Conservation Letters* 14: e12834. [IF: 8.1, Q1]
77. Fontaneto D, Martínez A, [Mammola S](#), Marchetto A (2021) The use of the term 'limnology' and its scientometrics consequences for limnologists. *Journal of Limnology* [IF: 1.6, Q2]
76. Hu Z, Hu Z-M, Zhang Q-S, Zhang J, Kass JM, [Mammola S](#), Fresia P, Draisma SGA, Assis J, Jueterbock A, Yokota M, Zhang Z (2021) Intraspecific genetic variation matters when predicting seagrass distribution under climate change. *Molecular ecology* [IF: 5.1, Q1]
75. [Mammola S](#), Lunghi E, Bilandžija H, Cardoso P, Grimm V, Schmidt SI, Hesselberg T, Martínez A (2021) Collecting eco-evolutionary data in the dark: Impediments to subterranean research and how to overcome them. *Ecology & Evolution* 11: 5911–5926. [IF: 2.2, Q1]
74. Martínez A, García-Gómez G, García-Herrero A, Sánchez N, Pardos F, Izquierdo-Muñoz A, ... [Mammola S](#) (2021) Habitat differences filter functional diversity of low dispersive microscopic. *Hydrobiologia* 848: 2681–2698. [IF: 2.5, Q1]
73. Wang X, Zhang Z, [Mammola S](#), Ho A, Zhang Y, Qin G, Lin Q (2021) Exploring ecological specialization in pipefish using genomic, morphometric and ecological evidence. *Diversity and Distribution* 27: 1393–1406. [IF: 4.4, Q1]
72. Martínez A\*, [Mammola S\\*](#) (2021) Specialized terminology reduces the number of citations of scientific papers. *Proceedings of the Royal Society B: Biological Sciences*, 288: 20202581 [IF: 4.6, Q1] \*Equal contribution

71. [Mammola S](#), Souza MFV, Isaia M, Ferreira RL. (2021) Global distribution of microwhip scorpions (Arachnida: Palpigradi). *Journal of Biogeography* 48: 1518–1529. [IF: 4.0, Q1] [Journal cover]
70. Milano F, ... [Mammola S](#) ..., Isaia M (2021) Spider conservation in Europe: a review. *Biological Conservation*, doi:10.1016/j.biocon.2021.109020 [IF: 5.0, Q1]
69. Nicolosi G, [Mammola S](#), Costanzo S, Sabella G, Cirrincione R, Isaia M. (2021) Micro-climatic preference of a Sicilian endemic hypogean woodlouse and implications for cave management. *International Journal of Speleology* 50: 53–63. [IF: 1.6, Q2]
68. [Mammola S](#), Hesselberg T, Lunghi E (2021) A trade-off between latitude and elevation contributes to explain range segregation of broadly distributed cave-dwelling spiders. *Journal of Zoological Systematics and Evolutionary Research* 59: 370–375. [IF: 2.3, Q1]
67. Ryo M, Angelo B, [Mammola S](#), Kass JM, Benito BM, Hartig F (2021) Explainable Artificial Intelligence enhances the ecological interpretability of black-box species distribution models. *Ecography* 44(2): 199–205. [IF: 6.6, Q1]
66. Pavlek P, [Mammola S](#) (2021) Niche-based processes explaining the distributions of closely related subterranean spiders. *Journal of Biogeography* 48: 118–133. [IF: 4.0, Q1]
65. Zhang, Z, Kass, JM, Mammola, S, Koizumi I, Li X, Tanaka K, Ikeda K, Suzuki T, Yokota M, Usio N (2021) Lineage-level distribution models lead to more realistic climate change predictions for a threatened crayfish. *Diversity and Distribution* 27: 684–695. [IF: 4.4, Q1] [Journal cover]
64. Piano E, [Mammola S](#), Dalle M, Riservato E, Isaia M (2021) Niche partitioning at emergence of two syntopic dragonflies. *Ecologies* 2: 16–26. [IF: -, Q1]

## 2020 -----

63. [Mammola S](#) (2020) On deepest caves, extreme habitats, and ecological superlatives. *Trends in Ecology and Evolution* 6: 469–472. [IF: 13.7, Q1]
62. [Mammola S](#), Amorim IR, Bichuette ME, Borges PAV, Cheeptham N, Cooper SJB, Culver DC, Deharveng L, Eme D, Ferreira RL, Fišer C, Fišer Ž, Fong DW, Griebler C, Jeffery WR, Kowalko J, Jugovic J, Lilley TM, Malard F, Manenti R, Martínez A, Meierhofer MB, Niemiller M, Northup DE, Pellegrini TG, Pipan P, Protas M, Reboleira AS, Venarsky MP, Wynne JJ, Zagmajster M, Cardoso P. (2020). Fundamental research questions in subterranean biology. *Biological Reviews*, 95: 1855–1872. [IF: 10.3, Q1]
61. [Mammola S](#), Martínez A (2020) Let research on subterranean habitats resonate! *Subterranean Biology* 36: 63–71. [IF: 2.0, Q1]
60. [Mammola S](#), Riccardi N, Correia R, Cardoso P, Lopes-Lima M, Sousa R (2020) Towards a taxonomically unbiased EU Biodiversity Strategy for 2030. *Proceedings of the Royal Society B: Biological Sciences* 287: 20202166. [IF: 4.6, Q1]
59. Cardoso P, Branco VV, Borges PAV, Carvalho JC, Rigal F, Gabriel R, [Mammola S](#), Cascalho J, Correia L (2020) Automated discovery of relationships, models and principles in ecology. *Frontiers in Ecology and Evolution* 8: 530135. [IF: 2.0, Q1]
58. [Mammola S](#), Martínez A, Fontaneto D, Chichorro F (2020) Impact of the reference list features on the number of citations. *Scientometrics* 126: 785–799. [IF: 3.5, Q1]
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## 2016 -----

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6. [Mammola S](#), Isaia M (2016) The ecological niche of a specialized subterranean spider. *Invertebrate Biology* 135: 20–30. [IF: 0.9, Q2] [Journal cover – [goo.gl/HdeMsj](https://goo.gl/HdeMsj)]

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5. [Mammola S](#), Isaia M, Arnedo MA (2015) Alpine endemic spiders shed light on the origin and evolution of subterranean species. *PeerJ* 3: e1384. [Estimated-IF: 2.2, Q1]
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3. Chamberlain D, Tocco C, Longoni A, [Mammola S](#), Palestini C, Rolando A (2015) Nesting strategies affect altitudinal distribution and habitat use in Alpine dung beetle communities. *Ecological Entomology* 40: 372–380. [IF: 1.7, Q1]
2. Chiavazzo E, Isaia M, [Mammola S](#), Lepore E, Ventola L, Asinari P, Pugno NM (2015) Cave spiders choose optimal environmental factors with respect to the generated entropy when laying their cocoon. *Scientific Reports* 5: 7611. [IF: 5.2, Q1]

## 2014 -----

1. [Mammola S](#), Isaia M (2014) Niche differentiation in *Meta bourneti* and *M. menardi* (Araneae, Tetragnathidae) with notes on the life history. *International Journal of Speleology* 43(3): 343–353. [IF: 1.7, Q1]

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## R packages

Cardoso P, [Mammola S](#), Rigal F, Carvalho JC. *BAT: Biodiversity Assessment Tools*.

Cardoso P, [Mammola S](#). *RAT: Researcher Assessment Metrics*.

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## Other publications

14. Okpala I, Romera Rodriguez G, Han C, Meierhofer M, [Mammola S](#), Halse S, Kropczynski J, Johnson J (2024) A Framework for Perception Analysis of Social Media Data During Disease Outbreaks: Uncovering Patterns of Resentment Towards Bats. *HICSS-57* [Publication in a conference proceeding – peer-reviewed]
13. Saccò M, Reinecke R, [Mammola S](#) (2023) We rely heavily on groundwater – but pumping too much threatens thousands of underground species. *The Conversation*. [Newspaper article]
12. Correia R, [Mammola S](#) (2023) Biophobia: search trends reveal a growing fear of nature. *The Conversation*. [Newspaper article]
11. Garzoli L, Fontaneto D, [Mammola S](#) (2023) Acquisizione dati e informazioni sulla presenza di specie di chiroterteri tutelati dalla direttiva Habitat (92/43/CEE). Regione Autonoma Valle d'Aosta, Struttura biodiversità, sostenibilità e aree naturali protette, Dipartimento Ambiente per conto del Ministero dell'Ambiente e della Sicurezza Energetica. [Technical report]
10. Griebler C, Hahn HJ, [Mammola S](#), Niemiller ML, Weaver L, Saccò M, Bichuette ME, Hose GC (2023) Legal frameworks for the conservation and sustainable management of groundwater ecosystems. In: *Groundwater Ecology and Evolution* (2<sup>nd</sup> Edition), pp. 551-571. Academic Press. [Book chapter – peer-reviewed]
9. Di Lorenzo T, Avramov M, Galassi DM, Iepure S, [Mammola S](#), Reboleira AS, Hervant F (2023) Physiological tolerance and ecotoxicological constraints of groundwater fauna. In: *Groundwater Ecology and Evolution* (2<sup>nd</sup> Edition), pp. 415-438. Academic Press. [Book chapter – peer-reviewed]
8. Fišer C, Brancelj A, Yoshizawa M, [Mammola S](#), Fišer Ž (2023) Dissolving morphological and behavioral traits of groundwater animals into a functional phenotype. In: *Groundwater Ecology and Evolution* (2<sup>nd</sup> Edition), pp. 415-438. Academic Press. [Book chapter – peer-reviewed]
7. Adamo M, [Mammola S](#) (2022) Anche la scienza ha le sue distorsioni. L'Essenziale – Internazionale [Newspaper article]
6. [Mammola S](#), Cardoso P (2022) Caves as simplified settings for testing ecological theory. Proceedings of the UIS 2021 congress, Lyon, France. [Publication in a conference proceeding – peer-reviewed]
5. [Mammola S](#) (2020). Così il clima cambia la vita in grotta. Villaggio Globale. [Newspaper article]
4. [Mammola S](#), Isaia M, Nervo M (2020). Ragni-tessitori in ambiente urbano [*Orb-weaver spiders in urban environments*]. In: *Il progetto degrado urbano [Urban decay project]* (Eds. Nervo M, Piccirillo A), La Venaria Reale. [In Italian and English] [Book chapter – non peer-reviewed]
3. [Mammola S](#), Isaia M (2018) Cave communities and species interactions. In: *Cave Ecology* (Eds. Moldovan OT, Kovac L, Halse S), Springer International. [Book chapter – peer-reviewed]
2. Milano F, Pantini P, [Mammola S](#), Isaia M (2018) La conservazione dell'araneofauna in Italia e in Europa [Spider conservation in Italy and Europe]. *Atti Accademia Nazionale Italiana di Entomologia*, Anno LXV, 2017: 91–103. [National publication – peer-reviewed]
1. [Mammola S](#), Piano E (2016) Management plan for the S.C.I. IT1110048 (Pugnetto Cave). Regione Piemonte. [Technical report]

Fundings	<b>2023–2026</b>	<b>Biodiversa+ project DarCo</b> Biodiversa+ 2021–2022. European Commission <u>Coordinator</u> (CNR budget: 212,000 eur; total consortium budget: 1,652,031 eur, 13 partners)
	<b>2023–2025</b>	<b>P.R.I.N. DEEP CHANGE</b> Ministero dell'Università e della Ricerca (MUR) <u>Coordinator</u> (CNR budget: 75,920 eur; total consortium budget: 206,294 eur, 3 partners)
	<b>2023–2025</b>	<b>2022CLISA37 project</b> Fundación CajaCanarias y la Fundación “la Caixa” <u>External consultant</u> (budget: 58,195 eur)
	<b>2022–2024</b>	<b>Fraggle Project</b> ( <a href="https://david563.wixsite.com/-fraggle-project">https://david563.wixsite.com/-fraggle-project</a> ) Ministerio de Ciencia e Innovación <u>Member of the main Operative Unit</u> (total budget: 136,000 eur)
	<b>2023</b>	<b>Acquisizione dati e informazioni sulla presenza di specie di chiroteri tutelati dalla direttiva Habitat (92/43/CEE)</b> Regione Autonoma Valle d'Aosta (CUP B59I23001560001) <u>Member of the main Operative Unit</u> (total budget: 9,000 eur)
	<b>2021</b>	<b>SYNTHESIS+ at Natural History Museum of Jerusalem, Israel</b> European Commission <u>Principal Investigator</u>
	<b>2022–2024</b>	<b>LIFE project ‘PREDATOR’</b> European Commission <u>Member of one of the Operative Units</u>
	<b>2022–2024</b>	<b>LIFE project ‘RESQUE ALPYR’</b> European Commission <u>Member of one of the Operative Units</u>
	<b>2021–2023</b>	<b>ECOTREAT project</b> National Research Council of Italy <u>Principal Investigator of a partner</u> (total budget: 124.930 eur)
	<b>2020–2022</b>	<b>Marie Skłodowska-Curie Individual Fellowship: CAWEB [No. 882221]</b> European Commission <u>Principal Investigator</u> (total budget: 190,681 eur)
	<b>2020–2023</b>	<b>Multi-Crash</b> FCT (portugal) <u>External consultant</u> (total budget: 250,000 eur)
	<b>2020–2023</b>	<b>PRIN 2017 – CAVESHOW [Prot. 2017HTXT2R]</b> Miur: Ministero dell'Istruzione <u>Member of the main Operative Unit</u> (total budget: 769,616 eur)
	<b>2018–2019</b>	<b>Bando Internazionalizzazione San Paolo 2018</b> Compagnia di San Paolo & University of Turin. <u>Principal Investigator</u> (total budget: ~70,000 eur)

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Membership of Scientific Societies	<b>2022–ongoing</b>	Vice President, International Society for Subterranean Biology
	<b>2022–ongoing</b>	Member, Open Trait Network
	<b>2021–ongoing</b>	Young Scientists – International Society of Zoological Sciences
	<b>2020–ongoing</b>	Marie Curie Alumni Association
	<b>2020–ongoing</b>	Curator, World Spider Trait Database ( <a href="https://spidertraits.sci.muni.cz/">https://spidertraits.sci.muni.cz/</a> )
	<b>2019–ongoing</b>	Consultant, Guinness World Records (Spider records)
	<b>2018–ongoing</b>	Member, European network for Research on Subterranean Organisms
	<b>2018–ongoing</b>	Member, International Society for Subterranean Biology
	<b>2017–ongoing</b>	Funding member/Coordinator, Research network “CAWEB2”
	<b>2016–ongoing</b>	Member, IUCN SSC Spider and Scorpion Specialist Group, IUCN
<b>2016–ongoing</b>	Member, International Society of Arachnology	
<b>2014–ongoing</b>	Member, European Society of Arachnology	

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Organization of symposia and conferences	<b>2024</b>	26 <sup>th</sup> International Conference on Subterranean Biology, Sardegna, Italy ( <b>Member of the Organizing Committee</b> )
	<b>2022</b>	25 <sup>th</sup> International Conference on Subterranean Biology, Claj-Napoca, Romania ( <b>Member of the Scientific Committee</b> )
	<b>2021</b>	Symposium 7 – Subterranean Life, 2021 IUS Congress, Lyon, France ( <b>Member of the Scientific Committee</b> )
	<b>2014</b>	28 <sup>th</sup> European Congress of Arachnology, Turin, Italy ( <b>Member of the Organizing Committee</b> )

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Invited Presentations & Seminars	<b>2023</b>	<i>Through the maze of functional diversity</i> . Fondazione Edmund Mach, 22.XI.2023
	<b>2023</b>	<i>The ‘dark side’ of functional diversity: looking at subterranean spiders through the lens of trait-based ecology</i> . Hebrew Museum of Natural History, Israel, 14.I.2023
	<b>2022</b>	Special Session “Species distribution mechanistic forecasting to overcome climate uncertainty: novel approaches and opportunities”, BES, Edinburgh
	<b>2022</b>	<i>The ‘dark side’ of functional diversity: looking at subterranean spiders through the lens of trait-based ecology</i> . University of Lousanne, Switzerland, 29.XI.2022
	<b>2022</b>	<i>The ‘dark side’ of functional diversity: looking at subterranean spiders through the lens of trait-based ecology</i> . University of Ljubljana, Slovenia, 12.X.2022
	<b>2022</b>	<b>Key lecture.</b> 25 <sup>th</sup> International Conference on Subterranean Biology, Claj-Napoca, Romania
	<b>2022</b>	<i>Breaking the cultural divide for a better subterranean conservation</i> . Symposium “Big ideas in bat research”, Austin, Texas
	<b>2022</b>	<i>Toward evidence-based conservation of subterranean ecosystems</i> . Institute of Botany, The Czech Academy of Sciences, Trebon (Czech), 7.ii.2022
	<b>2021</b>	<i>Toward evidence-based conservation of subterranean ecosystems</i> . University of Minho, Braga (Portugal), 20.x.2021
	<b>2021</b>	<i>Toward evidence-based conservation of subterranean ecosystems</i> . University of Tartu, Tartu (Estonia), 14.x.2021
	<b>2021</b>	<i>Toward evidence-based conservation of subterranean ecosystems</i> . University of Shefferd, UK, 2.ix.2021
	<b>2021</b>	<i>Ten tips for preparing a successful Marie Skłodowska-Curie fellowship</i> . University of Helsinki, Helsinki 28.v.2021
	<b>2020</b>	<i>Testing ecological theory using simplified systems</i> . LUOMUS seminars, University of Helsinki, 4.xi.2020
	<b>2019</b>	<i>The Dark Side of Climate Change</i> . University of Vienna, Department of Limnology and Bio-Oceanography, Vienna 2.xii.2019.
	<b>2019</b>	<i>On cave-dwelling spiders and climate change</i> . LUOMUS seminars, University of Helsinki; Helsinki 15.ii.2019
	<b>2018</b>	<i>The impact of web-spinning spider on historical buildings</i> . Toolbox Coworking, Torino, 22.vi.2018
<b>2017</b>	<i>Cave organisms as model for ecological and biogeographic studies</i> . CNR-ISE, Verbania, 31.i.2017	

- 2016** *Niche overlap and competition in subterranean spiders*. 1<sup>st</sup> Dinaric Symposium of Subterranean Biology, Zagreb, 23–24.ix.2016
- 2016** *Filogeografia, ecologia e storia naturale dei ragni cavernicoli del genere Pimoa*. Polo Universitario Asti Studi Superiori, Asti, 12.xi.2016
- 2016** *Alpine endemic spiders shed light on the origin and the evolution of subterranean species*. Associazione Naturalisti Piemontesi, Ostana, 15.v.2016
- 2015** *Ecologia delle grotte [Cave ecology]*. Lanzo, Raduno del CAI, 17.vi.2015

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Scientific symposia and conferences

Co-authorships in oral presentations are not listed

- 2023** GoForTree meeting, 04–05.X.2023, Verbania, Italy (**1 invited talk**)
- 2022** BES Annual Meeting, 18–21.XII.2022, Edinburgh, Scotland (**1 invited talk**)
- 2022** 33<sup>rd</sup> European Congress of Arachnology, Greifswald, Germany (**1 poster**)
- 2022** Bat Research Conference 7–12.VIII.2022, Austin, Texas (**1 invited talk**)
- 2022** 25<sup>th</sup> ICSB, Cluj-Napoca, RM (**1 invited talk, 1 talk**)
- 2022** 18<sup>th</sup> International Congress of Speleology, Lyon, FR (**1 talk**)
- 2021** Congresso Site, Roma, 23–25.IX.2021 (**1 poster**)
- 2020** VI Congresso Latino-Americano de Aracnologia, Virtual, 14–18.XII.2020 (**1 talk**)
- 2019** Congresso Site, Università degli Studi di Ferrara, Italy, 10–12.IX.2019 (**1 poster**)
- 2018** 24<sup>th</sup> International Conference on Subterranean Biology, Aveiro, PT (**1 talk, 1 poster**)
- 2018** 31<sup>th</sup> European Congress of Arachnology, Vac, Hungary (**2 posters**)
- 2017** 30<sup>th</sup> European Congress of Arachnology, Nottingham, UK (**2 talks**)
- 2016** 1<sup>st</sup> Dinaric Symposium of Subterranean Biology, Zagabria (**1 invited talk**)
- 2016** Primo Congresso Nazionale Congiunto Site, Uzi, Sib, Milan, Italy (**2 talks**)
- 2016** 20<sup>th</sup> International Congress of Arachnology, Golden (CO), USA (**1 talk, 2 posters**)
- 2016** 33<sup>th</sup> SIL Congress, Turin, Italy (**1 poster**)
- 2015** 29<sup>th</sup> European Congress of Arachnology, Brno, Czech republic (**1 talk, 2 posters**)
- 2014** 28<sup>th</sup> European Congress of Arachnology, Turin, Italy (**2 talk, 1 poster**)
- 2013** 19<sup>th</sup> International Congress of Arachnology, Kenting, Taiwan (**1 poster**)

Last updated on: 9 Jan 2024

