Alice Guzzi

Curriculum Vitae (updated September 2025)

Date of birth: 10/05/1994

Nationality: Italian

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University of Genoa
Department of Earth, Environmental and Life Sciences (DISTAV)
C.so Europa, 26,
16132 Genova, Italy
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&

Italian National Antarctic Museum (MNA, section of Genoa)
Viale Benedetto XV 5
16132 Genova, Italy
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&

National Biodiversity Future Center (NBFC)
Piazza Marina 61
90100 Palermo, Italy

Member of the Executive Committee – Association of Polar Early Career Scientists (APECS) Council Leader
https://www.apecs.is/
Member of the National Committee and National Representative of APECS Italy
https://www.apecsitaly.it/

Link
https://rubrica.unige.it/personale/VkpCW1tt
https://www.researchgate.net/profile/Alice_Guzzi2
https://steu.shinyapps.io/MNA-generale/

ORCiD: https://orcid.org/0000-0001-8066-9158

Scientific research activities and presentation of publications

Summary of research topics

- Biodiversity and systematics of marine invertebrates
- DNA Barcoding and reverse taxonomy
- Biotic interactions between marine invertebrates
- Structure and dynamics of marine benthic communities
- Photogrammetric techniques applied to benthos monitoring

Results achieved

My research focuses on marine invertebrate biodiversity and systematics, DNA barcoding and reverse taxonomy, and photogrammetry for benthos monitoring. I received the Erasmus+ scholarship for an internship at British Antarctic Survey (2018), won the Compagnia San Paolo research prize (2019), and the LinnéSys Systematics Research Fund (2020). I've co-authored 15 ISI articles, 2 non-ISI articles, a book chapter, 2 data reports, 3 PNRR National guidelines for sample treatment and management, 2 posters and presented at 21 conferences at both national and international levels. Guest editor in 2024 for Diversity. I was an official projects member of: **BAMBi**: Barcoding Antarctic marine diversity (PI: Schiaparelli); **TNB-CODE**: Barcoding and metabarcoding of Antarctic organisms in marine and limno-terrestrial settings (PI:

Schiaparelli); **RosS-MODe**: Monitoring of Ross Sea biodiversity by environmental DNA, barcoding, and metabarcoding (PI: Ficetola); **ICE-LAPSE**: Analysis of Antarctic benthos dynamics by using non-destructive monitoring devices and permanent stations (PI: Schiaparelli), **National Biodiversity Future Center (NBFC)**: Supported by the Italian MIUR and funded by the EU's NextGenerationEU (PI: Bavestrello). Participant in the British Antarctic Survey ICEBERGS2 (JR18003) and ICEBERGS3 (JR19002) expeditions aboard RRS James Clark Ross along the west side of the Antarctic Peninsula - British Antarctic Survey, Cambridge (UK).

Metriche Scopus

• h-index = 6
• Total citations = 126
• Cited by = 96

Metriche Google Scholar

• h-index = 6
• Numero totale citazioni: 183
• i10-index = 6

Metriche Research Gate

• h-index = 6
• Research Interest = 217.4
• Citations = 139
• Recommendations = 131
• Reads = 4988

Current position

01/03/2023 – 28/02/2025 **Research fellow**
"Sampling, analysis and characterization of the mobile macrofauna of the Ligurian coasts", scientific-disciplinary sector BIO/05 ZOOLOGIA at the Department of Earth, Environmental and Life Sciences (DISTAV).
PNRR research grant D.R. 5697 - program 14

2024 – at present **Course Lecturer "Archeozoology Laboratory"**
University of Genoa (2nd semester)

Academic education

- *2023 – at present* **Subject expert (Cultore della Materia) in BIOS-03/A (ex-BIO/05) Zoology**
  University of Genoa – Board of Study Course in Biology of 03/10/2023

- *2019 – 2024* **PhD in Environmental, Geological and Polar Sciences and Technologies**
  Title: "Morphological and genetic variation in Southern Ocean Echinoderms with main focus on brittle stars (Ophiuroidea)"
  Supervisor: Schiaparelli Stefano - Italian National Antarctic Museum (MNA, section of Genoa)
  University of Siena
  Thesis defence: April 22nd, 2024

- *2017-2019* **Master's Degree in Marine Sciences - Ecology**
  Score: 110/110 cum Laude

Title: "Molecular and morphological analysis of the Echinoderms of Terra Nova Bay (Ross Sea, Antarctica) based on the" reverse taxonomy "
Supervisor: Schiaparelli Stefano - Italian National Antarctic Museum (MNA, section of Genoa) University of Genoa

- *2013-2017* **Bachelor's Degree in Environmental Sciences**
  Score: 102/110
  Title: “Molecular and morphological analysis of Holothuroidea (Echinodermata) from Terra Nova Bay (Ross Sea, Antarctica)"
  Supervisor: Schiaparelli Stefano - Italian National Antarctic Museum (MNA, section of Genoa) University of Genoa

ISI publications (2017-2025)

2017

Cecchetto M., Alvaro M.C., Ghiglione C., **Guzzi A.**, Mazzoli C., Piazza P., Schiaparelli S. (2017) Distributional records of Antarctic and sub-Antarctic Ophiuroidea from samples curated at the Italian National Antarctic Museum (MNA): check-list update of the group in the Terra Nova Bay area (Ross Sea) and launch of the MNA 3D model ‘virtual gallery’.
ZooKeys, 705: 61-79. https://doi.org/10.3897/zookeys.705.13712.

2018

Ghiglione, C., Alvaro, M. C., Cecchetto, M., Canese, S., Downey, R., **Guzzi, A**., Mazzoli, C., Piazza, P., Rapp, H.T., Sarà, A., Schiaparelli, S. (2018) Porifera collection of the Italian National Antarctic Museum (MNA), with an updated checklist from Terra Nova Bay (Ross Sea).
ZooKeys 758: 137–156. doi: 10.3897/zookeys.758.23485

2019

Piazza P., Cummings V., **Guzzi A**., Hawes I., Lohrer A., Marini S., Marriott P., Menna F., Nocerino E., Peirano A., Kim S., Schiaparelli S. (2019) "Underwater photogrammetry in Antarctica: long term observations in benthic ecosystems and legacy data rescue".
Polar Biology pp 1–19. https://doi.org/10.1007/s00300-019-02480-w

2020

Piazza P., Gattone S. A., **Guzzi A**., Schiaparelli S. (2020) "Towards a robust baseline for long-term monitoring of Antarctic coastal benthos".
Hydrobiologia pp 1-19. https://doi.org/10.1007/s10750-020-04177-2

2021

Schiaparelli S., Alvaro M. C., Carbone C., Cecchetto M., Belmonte D., **Guzzi A.** (2021) “The Italian National Antarctic Museum (MNA, Section of Genoa): a national heritage and a scientific resource for the study of Antarctic biological samples”
Medicina Historica 2020; Vol. 4, N. 3: e2020019.
https://mattioli1885journals.com/index.php/MedHistor/article/view/11126/9574

Zwerschke N., Sands C., Roman-Gonzalez A., K. A. Barnes D., **Guzzi A.,** Jenkins S., Munoz Ramirez C., Scourse J. (2021) “Blue carbon pathways contributing to negative feedback on climate change following glacier retreat in West Antarctica”
Global Change Biology 28(43):1-13 DOI: 10.1111/gcb.15898

2022

Guzzi, A.; Alvaro, M.C.; Danis, B.; Moreau, C.; Schiaparelli, S. (2022) Not All That Glitters Is Gold: Barcoding Effort Reveals Taxonomic Incongruences in Iconic Ross Sea Sea Stars. Diversity, 14, 457. https://doi.org/10.3390/d14060457

2023

Schiaparelli S, Alvaro, MC, **Guzzi A**, Grillo M (2023). *Cymbulia parvidentata* Pelseneer, 1888 (Mollusca, Cymbuliidae) in the Ligurian Sea: further evidence of Atlantic species incursions in the Mediterranean area. Biodiversity Data Journal 11: e99108. https://doi.org/10.3897/BDJ.11.e99108

Guzzi A, Alvaro MC, Cecchetto M, Schiaparelli S (2023) Echinoids and Crinoids from Terra Nova Bay (Ross Sea) Based on a Reverse Taxonomy Approach. Diversity 2023, 15, 875. https://doi.org/10.3390/d15070875

Guzzi A, Alvaro M C, Cecchetto M, Grillo M, Cometti V, Noli N, Schiaparelli S (2023). Distributional records of sea cucumbers (Echinodermata, Holothuroidea) based on the collection stored at the Italian National Antarctic Museum (MNA, section of Genoa). Version 1.3. Italian National Antarctic Museum (MNA, Section of Genoa). Occurrence dataset. https://doi.org/10.15468/yx6wym accessed via GBIF.org on 2023-05-15.

Cecchetto M, Jażdżewska A M, **Guzzi A**, Grillo M, Noli N, Cometti V, Schiaparelli S (2023). Distribution records of Amphipoda based on the collection stored at the Italian National Antarctic Museum (MNA). Version 1.4. Italian National Antarctic Museum (MNA, Section of Genoa). Occurrence dataset. https://doi.org/10.15468/asrymv accessed via GBIF.org on 2023-05-15.

Costa G, Lo Giudice A, Papale M, Rizzo C, Azzaro M, **Guzzi A**, Grillo M, Bertolino M (2023) Sponges (Porifera) from the Ross Sea (Southern Ocean) with taxonomic and molecular re-description of two uncommon species. Polar Biology (2023): 1-14. https://doi.org/10.1007/s00300-023-03205-w

2024

Grillo M, Bonello G, Cecchetto M, **Guzzi A**, Noli N, Cometti V, Schiaparelli S, Gan Y (2024) Planktonic, benthic and sympagic copepods collected in the desalination unit during the XXXIVth Expedition of the Italian National Antarctic Program (PNRA). Biodiversity Data Journal, 12, e119633. https://doi.org/10.3897/BDJ.12.e119633

Guzzi A, Schiaparelli S, Balan M and Grillo M (2024). A Beacon in the Dark: Grey Literature Data Mining and Machine Learning Enlightening Historical Plankton Seasonality Dynamics in Ligurian Sea. Diversity. 2024; 16(3):189. https://doi.org/10.3390/d16030189

Noli, N., Cecchetto, M., **Guzzi, A**., Grillo, M., Cometti, V., & Schiaparelli, S. (2024). New distributional records of Southern Ocean Isopoda based on vouchers from the Italian National Antarctic Museum (MNA, Section of Genoa). *Biodiversity Data Journal*, *12*, e127689.

Guzzi, A., Schiaparelli, S., Merulla, N., Crupi, D., & Grillo, M. (2024). Stranding of Porpita porpita (Cnidaria, Hydrozoa) in Ligurian coast: sampling bias or evidence of a warming sea? *Marine and Fishery Sciences (MAFIS)*, *38*(2).

2025

Cometti, V., Cecchetto, M., **Guzzi, A**., Grillo, M., Noli, N., Corsolini, S., & Schiaparelli, S. (2025). Checklist of pioneer benthic taxa found on Autonomous Reef Monitoring Structures (ARMS) in Terra Nova Bay (Ross Sea, Antarctica). *Biodiversity Data Journal*, *13*, e148863.

Sands, S.J., O'Hara T., **Guzzi A**., Goodall-Copestake W., Convey P., Narayanaswamy B. E., Martín-Ledo R. and Stöhr S. (2025). And then there were many: insights from the tangled taxonomy of the Antarctic brittle star Ophioplinthus gelida (Echinodermata: Ophiuroidea). Frontiers in Marine Science, 12, 1615695. https://doi.org/10.3389/fmars.2025.1615695

Guzzi A., Noli N., de Lecea A. M., Costa M., Linse K., Brandt A., Schiaparelli S. (*in prep*) A New Isopod Species showing extreme sexual dimorphism: *Moruloidea lokii* sp. nov., from Burdwood Bank (South Atlantic Ocean)

De Clippele L.H., Balsa J., Beckmann L.M., Boolukos C.M.B., Burgues I., Cook E.E., De la Torriente Diez A., Easton. B.A.A., Ferreira T. C., **Guzzi A**., Harris L.M., Kaufmann M.E., Martinez-Dios, A., Mendoza J.C., Riley T.G., Villalobos V.I., Clark H.P., Dominguez Carrió C., Vad J., Vlaar T., Smith A. (*in prep*) Recommendations for benthic ecologists training deep learning models based on insights from using the interactive Machine Learning tool RootPainter

Guzzi A., Vignati F., Roppo Valente G., Lanteri L., Enrichetti F., Schiaparelli S. (*in prep*) A Common Uncommon: The Case of *Neomaja goltziana* (d'Oliveira, 1889) in the Ligurian Sea

Guzzi A., Roppo Valente G., Vignati F., Schiaparelli S. (*in prep*) First georeferenced record of *Spinolambrus macrochelos* (Herbst, 1790) from the type locality (Genoa, Italy), with reference to the neotype designation

Guzzi A., Schiaparelli S. (*in prep*) First record of the red masked crab *Pisa chiragra* (Fabricius, 1775) in the Ligurian Sea (Northwest Mediterranean Sea)

Guzzi A., Vignati F., Roppo Valente G., La Tessa L., Benente F., Priano M., Pedimonte E., Del Bene E., Bignoli C., Sansoni G., Schiaparelli S. (*in prep*) Empowering Heritage Through Participation: Brachiura (Crustacea: Decapoda) digital twins of museum vouchers to illustrate environmental change in the Anthropocene

Non-ISI publications

2017

Schiaparelli S., Alvaro M.C., Cecchetto M., **Guzzi A.,** Piazza P. (2017) Dalla rilevanza nazionale a quella internazionale: le strategie adottate dal Museo Nazionale dell'Antartide (MNA, Sede di Genova). Museologia Scientifica Memorie, 19: 40- 44.

2021

Guzzi A. (2021) "Antartide e organismi marini: nuove tecniche tassonomiche"
Accademia Ligure di Scienze e Lettere 2021
Collana studi e ricerche
LXIV. Premi di ricerca 2020
http://www.accademialigurediscienzeelettere.it/index.php/pubblicazioni/collana-studi-e-ricerche/

Books or book chapters

2022

Schiaparelli, S., Alvaro, M.C., Cecchetto, M., **Guzzi, A**. (2022). Barcoding of Antarctic Marine Invertebrates: From Field Sampling to Lab Procedures. In: Verde, C., Giordano, D. (eds) Marine Genomics. Methods in Molecular Biology, vol 2498. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-2313-8_9
Print ISBN 978-1-0716-2312-1; Online ISBN 978-1-0716-2313-8

Poster

2024

Guzzi A, Schiaparelli S, Balan M and Grillo M (2024) - A dip in the 80s. Use of Machine Learning and gray literature data to understand the historical seasonal dynamics of Ligurian Sea plankton. Forum Nazionale della Biodiversità. Convegno Scientifico 20 - 21 maggio 2024, Università degli Studi di Palermo

Guzzi A, Schiaparelli S (2024) – Methodologies and good practice for biodiversity archiving and conservation: Recommendations for field data collection and molecular technologies. Forum Nazionale della Biodiversità. Convegno Scientifico 20 - 21 maggio 2024, Università degli Studi di Palermo

Data Report

2018

JR18003 Cruise Report (2018) - Sands CJ, Annett A, Apeland B, Barnes DKA, Bascur M, Bruning P, Costa M, De Lecea A, Ensor N, Featherstone A, Flint G, Goodger D, **Guzzi A**, Howard F, D. Hunter, Jenkins S, Kender S, Lincoln B, Munoz-Ramirez C, Pienkowski A, Retallic K, Roman-Gonzalez A, Scource J, Sheen K, Swerschke N, Whitaker T, Williams J, Zhao L.
https://www.bodc.ac.uk/resources/inventories/cruise_inventory/report/17247/

Capitolo 5.2. Oceanography
Katy Sheen, Dave Goodger, Amber Annette, Ander M. de Lecea, Marina Costa, James Williams, **Alice Guzzi**, George Dadd

Capitolo 5.4.2. Multicore
James Scourse, Anna Pieńkowski, Justine Whitaker, David Barnes, Nadescha Zwerschke, Amy Featherstone, **Alice Guzzi,** Li Zhao, Alejandro Roman Gonzalez

Capitolo 7. Outreach activities
Alice Guzzi, Alejandro Román González, Nadescha Zwerschke

2020

JR19002 Cruise Report (2020) - Scourse JD, Alexandroff S, Annett A, Barnes DKA, Bloemenroeder J, Bull C, Butler P, Costa M, De Lecea A, Ehmen T, Falagan-Rodriguez C, Flanagan O, Flint G, Frémand A, Furze M, Garza T, Gillun T, **Guzzi A**, Guzman F, Jones R, Meredith MM , Moore T, Munoz-Ramirez C, Oldland L, Owen T, Rees D, Retallick K, Roman-Gonzalez A, Sands C, Salas de Frietas F, Shirai K, Smith A, Thomas S, Trofimova T, Vincent S, Vora M
https://www.bodc.ac.uk/resources/inventories/cruise_inventory/report/17557/

Capitolo 7.4.1. Hamon Grab
Dr Carlos Munoz-Ramirez, Dr Chester Sands, Ander De Lecea, Fabian Guzman, **Alice Guzzi**, Paul Butler, Julien Blumenroed, Kotaro Shirai, Marke Furze, Alice Fremand, Mehul Vora, Marina Costa

Capitolo 7.5.3. Agassiz Trawl (AGT)
Dr Chester Sands, **Alice Guzzi**, Dr Carlos Munoz-Ramirez, Dr David Barnes, Dr Alejandro Roman Gonzales, Dr Paul Butler, Marina Costa, Julian Blumenroder, Dr Kotaro Shirai, Fabian Guzman, Tristyn Garza, Stella Alexandroff, Dr Tamara Trofimova, Dr Carmen Flagan Rodriguez

Capitolo 12. Outreach activities
Alice Guzzi, Dr Alejandro Román González, Livia Oldman

Methods

2023

Guzzi, A. & Schiaparelli, S. (2023) Linee guida documentazione fotografica MACRORGANISMI
DOI: 10.13140/RG.2.2.17909.76007

Guzzi, A. & Schiaparelli, S. (2023) Linee guida documentazione fotografica in campo: MACRORGANISMI
DOI: 10.13140/RG.2.2.20845.77283

Guzzi, A. & Schiaparelli, S. (2023) Linee guida generali prelievo di tessuto MACRORGANISMI
DOI: 10.13140/RG.2.2.19168.05123

Work experiences

Teacher training activities within the project DM 48/2021 Art. 3 Para. 1 Letter. B1 – Teacher training courses related to the enhancement of logical-mathematical skills in the first cycle of education. Project "En route to Antarctica". Activities for no. 15 teaching hours and n. 15 hours of planning, monitoring, production of materials and evaluation, aimed at teachers of all levels, of the I.C. San Francesco da Paola and schools belonging to the network.

Editorial Activity

2024

Guest Editor for the special issue of *Diversity* entitled *"The Ligurian Sea and the National Biodiversity Future Centre (NBFC): Biodiversity Conservation in a Temperate Marine Environment under Threat"*, dedicated to the publication and sharing of data for the National Biodiversity Future Centre (NBFC), with a focus on the Ligurian Sea and all aspects of marine biodiversity [*Diversity* (2024)].

Supervisor and co-supervisor activity

2021 Co-supervisor

Co-supervisor of the candidate Alessia Merialdi

Thesis topic: "Characterization of *Iophon spp.* (Acarnidae; Demospongiae) in association with ophiorae of the genus Ophioplinthus: molecular and morphological aspects"
Bachelor Degree in Biological Sciences, University of Genoa- 15/12/2021

2024 Co-supervisor

Co-supervisor of the candidate Asia Mantovan

Thesis topic: "Long-term monitoring of Antarctic macrobenthos through photogrammetry: creation of a library and application of automated organism recognition systems"
Master Degree in Biology and Marine Ecology, University of Genoa - 16/12/2024

2025 Co-supervisor

Co-supervisor of the candidate Daniel De Alexandris
Co-supervisor of the candidate Silvia Pane

Communications at national and international congresses

2017

2017 XIIth SCAR Biology Symposium. Leuven, Belgio (10-14 Luglio 2017)
Schiaparelli Stefano, Alvaro Maria Chiara, Matteo Cecchetto, Bruno Danis, Giulia Fassio, **Alice Guzzi**, Quentin Jossart, Maria Vittoria Modica, Camille Moreau, Marco Oliverio (2017) – "Inventory completeness and accuracy of taxonomic determination: outcomes of a large scale barcoding effort of echinoderms in

Terra Nova Bay (Antarctica, Ross Sea)"
https://www.vliz.be/imisdocs/publications/307922.pdf

Past Antarctic Ice Sheet Dynamics (PAIS) Conference 2017 Trieste, Italia (10-15 Settembre 2017)
Schiaparelli Stefano, Maria Chiara Alvaro, Matteo Cecchetto, Giulia Fassio, **Alice Guzzi**, Marco Oliverio (2017) – "Phylogeographic mismatches in guest-host relationships among Antarctic invertebrates: a key to understand (and date) past climatic events?"
Topic 4 - Co-evolution of climate and life in the Antarctic & Southern Ocean.

XXVII CONGRESSO ANMS - "IL MUSEO E I SUOI CONTATTI" Museo di Storia Naturale "Giacomo Doria", Genova, Italia (25-27 Ottobre 2017)
Stefano Schiaparelli, Maria Chiara Alvaro, Matteo Cecchetto, Claudio Ghiglione, **Alice Guzzi**, Paola Piazza (2017) - "Dalla rilevanza nazionale a quella internazionale: le strategie adottate dal Museo Nazionale dell'Antartide di Genova"
http://www.anms.it/upload/rivistefiles/d967dc4bb49370dea4f62cb5697235e8.pdf

2018

SCAR & IASC Conference, Davos (Switzerland) (15-26 June 2018)
Stefano Schiaparelli, Maria Chiara Alvaro, Matteo Cecchetto, Claudio Ghiglione, **Alice Guzzi**, Paola Piazza, Claudio Mazzoli (2018) – "Going Vrtual: 3D Opportunities for Antarctic Museums in the Internet Era"
https://www.scar.org/library/conferences/scar-open-science-conferences/abstracts/5075-polar2018-abstracts?category_access=1

Schiaparelli S., Alvaro M.C., Cecchetto M., Fontaneto D., Ghiglione C., **Guzzi A**., Piazza P. (2018) - "Putting Natural History Collections of Antarctic Museums to Work"
https://www.scar.org/library/conferences/scar-open-science-conferences/abstracts/5075-polar2018-abstracts?category_access=1

2020

Accademia Ligure di Scienze e Lettere Genova, Italia (08 Ottobre 2020)
Alice Guzzi – Antartide e organismi marini: nuove tecniche tassonomiche

2021

3° CONVEGNO NAZIONALE APECS ITALIA Siena, Italia (9-10 Novembre 2021)
Alice Guzzi – Analisi molecolare e morfologica degli Echinodermi antartici

2022

10th SCAR Open Science Conference 2022 India (1st - 10th August 2022)
Alice Guzzi, Chester J. Sands, Stefano Schiaparelli (2022) – "DNA barcodes assessment on *Ophioplinthus* Lyman, 1878 based on mitochondrial COI genes revealed multiple putative cryptic species in the Southern Ocean"
https://scar.org/science-meetings/osc/open-science-conference-abstracts/5876-scar-open-science-conference-2022-abstracts/file/

4° CONVEGNO NAZIONALE APECS ITALIA Bologna, Italia (19-20 Ottobre 2022)
Alice Guzzi – Non è tutto oro quello che luccica: il DNA barcoding rivela incongruenze tassonomiche nelle iconiche stelle marine del Mare di Ross

2023

5TH INTERNATIONAL WORKSHOP ON TAXONOMY OF ATLANTO-MEDITERRANEAN DEEP-SEA & CAVE SPONGES Rapallo (11-16 Settembre 2023)
Guzzi A., Bertolino M., Sands C., Merialdi A. & Schiaparelli S. - Characterization of *Iophon* spp. (Porifera,

Demospongiae) in association with the brittle stars genus *Ophioplinthus* (Echinodermata, Ophiuroidea) in the Southern Ocean

5° CONVEGNO NAZIONALE APECS ITALIA Venezia, Italia (08-09 Novembre 2023)
Guzzi A., Alvaro M. C., Cecchetto M. & Schiaparelli S. - Echinoidi e crinoidi di Baia Terra Nova (Mare di Ross) basati su un approccio di tassonomia inversa

Mantovan A., **Guzzi A**. & Schiaparelli S. - Caratterizzazione della comunità macrobentonica di Baia Terra Nova (Mare di Ross, Antartide) attraverso un approccio fotogrammetrico

Merialdi A., **Guzzi A**., Bertolino M., Sands C. & Schiaparelli S. - Aspetti morfologici e molecolari dell'associazione tra le spugne del genere *Iophon* e le ofiure del genere *Ophioplinthus* nell'Oceano Meridionale

WORKSHOP PNRA "Una visione del futuro, Verso una programmazione pluriennale del PNRA" (5 e 6 Dicembre 2023 – Roma, Villa Torlonia)
Traversa G., Alfei P.A., Bianco E., D'Amico M., **Guzzi A**. e Tenti M.- APECS - I giovani ricercatori per l'Antartide

2024

1° *WORKSHOP "National Doctoral Programme in Polar Science (DIN-SP)" (24,25 e 26 Gennaio 2024 – Mestre, Auditorium Danilo Mainardi, Alfa Building, Ca' Foscari Scientific Campus)*
D'Amico M, Traversa G., Alfei P.P., Bianco E., **Guzzi A**. e Tenti M.– APECS Italia

Polar Symposium 2024 From Arctic to Antarctic "The Cold is Getting Hot!" (22-23 Febbraio 2024 – Principato di Monaco, Oceanographic Museum of Monaco)
Topic 1: Infrastructure and transportation - Rapporteur
Guzzi A- APECS Representative at the Polar Symposium

XI SCAR Open Science Conference (19-23 August 2024 – Pucon, Chile)
Session 28 – The Antarctic Benthos – Environmental drivers and ecosystem dynamics
Guzzi A, Corsini M, Menna F, Nocerino E, Remondino F, Pavoni G, Mantovan A, De Alexandris D and Schiaparelli S- Long-Term monitoring of Antarctic benthos through Photogrammetry: automated organism recognition and library development

XI SCAR Open Science Conference (19-23 August 2024 – Pucon, Chile)
Cecchetto M., **Guzzi A.** and Schiaparelli S. - DNA Barcode Completeness of Antarctic Eukaryotes: a Broad Assessment for the Identification of Knowledge Gaps

6° CONVEGNO NAZIONALE APECS ITALIA Pesaro, Italia (03-04 Ottobre 2024)
Guzzi A., Corsini M, Menna F, Nocerino E, Remondino F, Pavoni G, Mantovan A, De Alexandris D and Schiaparelli S - Monitoraggio a lungo termine del benthos antartico tramite fotogrammetria: riconoscimento automatico degli organismi e sviluppo di "library"

5th Marine Imaging Workshop (MIW) 2024: Illuminating the ocean (October 8-10, 2024 - Monterey, California, USA)
Laurence H. De Clippele Dominguez Carrió C, Vad J, Vlaar T, Balsa J, Beckmann LM, Boolukos C, Burgues I, Clark HP, Cook E, de la Torriente Diez A, Easton B, Ferreira T C, **Guzzi A**, Harris L, Kaufmann M, Mendoza JC, Riley TG, Villalobos VI - Interactive machine learning reflections on how a human-in-the loop approach can increase model training efficiency

3rd International Electronic Conference on Diversity
Guzzi, A.; Corsini, M.; Menna, F.; Nocerino, E.; Remondino, F.; Mantovan, A.; De Alexandris, D.; Schiaparelli, S. Advancing Antarctic Benthic Ecosystem Monitoring through Photogrammetry and

Automated Recognition Technologies, in *Proceedings of the 3rd International Electronic Conference on Diversity*, 15–17 October 2024, MDPI: Basel, Switzerland

2025

2° *WORKSHOP "National Doctoral Programme in Polar Science (DIN-SP)" (5,6 e 7 Febbraio 2025 – Mestre, Auditorium Danilo Mainardi, Alfa Building, Ca' Foscari Scientific Campus)*
G. Traversa, P.P. Alfei, S. Cerri, D. Crupi, M. D'Amico, **A. Guzzi**, M. Tenti - APECS Italy - the Italian branch of the international Association of Polar Early Career Scientists

Departmental seminars

2022

31/01/2022 SEMINARI DIPARTIMENTALI DISTAV Genova, Italia
Morphological and genetic variation in Southern Ocean Echinoderms with main focus on brittle stars (Ophiuroidea)
Dipartimento per lo Studio del Territorio dell'Ambiente e della Vita (DISTAV) e del Museo Nazionale dell'Antartide (MNA, Sede di Genova), Università di Genova

21/02/2022 Tutorial 4 on Integrative Taxonomy: a case study with Antarctic Echinoderms
Lecturer in Biological Oceanography
Scottish Association for Marine Science, Oban

2023

30/11/2023 St[r]anding Project Presentation - **Alice Guzzi**, Marco Grillo e Davide Crupi
Citizen Science for Monitoring Stranded Fauna
University of Genoa

2024

14/04/2024 Presentazione del Progetto st[r]anding - **Alice Guzzi**
Citizen science per il monitoraggio della fauna spiaggiata
University of Genoa

Scholarships and research grants

- *2018* Vincitrice borsa di studio Erasmus+
  Internship at British Antarctic Survey – Project: "Testing the association of sponges and brittlestars – a classical population genetic approach"
- The project is focused on the species *Ophioplinthus gelida*, I tested new genetic markers to better characterize the commensal relationship between the ophiura and the *Iophon* sponge.
  Supervisor: Chester Sands, Stefano Schiaparelli
  British Antarctic Survey, Cambridge (UK)

- 2019 Winner of the Compagnia San Paolo research prize (theme 1)
  Accademia Ligure di Scienze e Lettere
  Piazza Matteotti 5, 16123 GENOVA

- *2020* LinnéSys: Systematics Research Fund
  Project title "Is brittle star evolution being forced by a sponge symbiont?"
  The Linnean Society of London & The Systematics Association (UK)

Scientific expeditions

- *2018* Participant in the British Antarctic Survey ICEBERGS2 (JR18003) expedition aboard RRS James Clark Ross along the west side of the Antarctic Peninsula (WAP)
  British Antarctic Survey, Cambridge (UK)

- *2019* Participant of the British Antarctic Survey ICEBERGS3 (JR19002) expedition aboard RRS James Clark Ross along the west side of the Antarctic Peninsula (WAP)
  British Antarctic Survey, Cambridge (UK)

Training internships

- *2016* Internship in molecular biology.
  Dipartimento di Biologia e Biotecnologia "Charles Darwin" BBCD
  Supervisor: Giulia Fassio, Marco Oliviero
  La Sapienza – University di Roma

- *2015* Internship at Cima Research Foundation
  As part of the monitoring of the pelagic ecosystem by participating in cetacean sighting trips with long-term objectives such as increasing the current state of knowledge on the ecological importance of the Pelagos area.
  CIMA Research Foundation, Savona (Italia)

- *2014* Internship at MPA Portofino
  Monitoring of yachting activity during the summer season in the Portofino MPA

Outreach activity

- *2014- 2016* Daphne scientific guide at the Genoa Aquarium
  Genova (Italia)

- *2018* Participation in the "Festival del Mare" for the National Antarctic Museum - Genoa section in collaboration with CON.SUB.IN - Title: "Immersione in Antartide"
  Università degli studi di Genova – Marina Militare Italiano CON.SUB.IN

- *2019* Participation in the "Festival del Mare" for the National Antarctic Museum - Genoa
  Title: “Le immersion scientifiche ai tropici e ai poli”
  Università degli Studi di Genova

- *2019* Conferences on my work as a graduate student at the Italian National Antarctic Museum - Genoa section and the ICEBERGS2 expedition
  - 4th May 2019 Teatro Maggiore, Cannobio (Italia)
    Viale Vittorio Veneto 4, 28822 – Cannobio

  - 7th May 2019 Scuola Media di Lugano 1, Lugano (Svizzera)
    Viale Carlo Cattaneo 4, 6900 - Lugano

  - 13th May 2019 Istituto Comprensivo “P.Carmine”
    Via Zammaretti 4, 28822 – Cannobio

- *2019* Participation in "UniverSity" for the Italian National Museum of Antarctica -Genoa section
  Title: “Zoologia fantastica”
  Università degli Studi di Genova

- *2022* SHARPER NIGHT
  Title: “Analisi del DNA in organismi marini antartici”
  Curated by Stefano Schiaparelli, Alice Guzzi e Matteo Cecchetto (Museo Nazionale dell’Antartide – MNA, Sezione di Genova)
  Università degli Studi di Genova

- *2022* Polar Day at Istituto Comprensivo San Francesco Da Paola
  Title: “Web design”
  Title: “Biodiversità antartica”
  Genova, 08/03/2022 e 10/03/2022

- *2022* In viaggio verso l’Antartide
  Lions Club Verbano Borromeo
  Feriolo, 21/10/2022

- *2023* Laboratorio di disegno: “specie aliene…e nostrane”
  A cura del Dipartimento per lo Studio del Territorio dell’Ambiente e della Vita (DISTAV) e del Museo Nazionale dell’Antartide (MNA, Sede di Genova), Università di Genova
  Sala delle Donne, Palazzo Ducale (Genova) 15 December 2023

- *2024* Voci dal Mare
  Organized by Colmare (https://colmare.altervista.org/)
  Genova, 19 February 2019

- *2024* Endurance – la spedizione di Ernest Shackleton
  Lions Club Verbano Borromeo
  Feriolo, 08 March 2024

- 2024 Autunniamo

Training courses

2017 Use of R's software
University of Genoa – Department of Economics

2018 Personal Survival Techniques
Certificate number:104499/08
Bluewater Crew & Training Center– boulevard d’Aguillon 7, 06600 Antibes

2020 Phylogenetic comparative methods 30/11/2020 – 04/12/2020
Physalia-courses Richard-Sorge-Str. 73a, 10249 Berlin, Germany
Telephone: +49 17645230846

Website: http://www.physalia-courses.org
E-mail: info@physalia-courses.org

2021 24-CFU Educational Training Program
Università degli Studi di Genova
Pedagogy, Special Pedagogy, and Inclusive Teaching
Psychology
Anthropology
Teaching Methodologies and Technologies

2022 Technical Manager Qualification of the National Register of Environmental Operators
MANDATORY MODULE FOR ALL CATEGORIES (valid until 13/04/2027)
SPECIALIST MODULE FOR CATEGORIES 1-4-5 (valid until 13/04/2027)
Chamber of Commerce, Industry, Crafts and Agriculture of GENOA
Piazza De Ferrari, 2 – 16121 GENOA (GE), Italy

2022 Digital Cartography and GIS
Organized by APECS Italy & Geoscape Cooperative Society – Spin-off of the University of Genoa

2023 Statistics for Zoologists: Analytical Insights and Practical Applications (11- 12 Dicembre 2023)
Organized by Royal Belgian Zoological Society

2024 Contributing and publishing datasets to OBIS (self-paced) (28 Febraio 2024)
Organized by UNESCO/IOC Project Office for IODE

2024 Underwater image analysis from A to Z:
from image collection to answering key ecological questions (3 -7 Giugno 2024)
Organized by MAF WORLD • COST ACTION CA20102
Laurence De Clippele (University of Glasgow, United Kingdom),
Carlos Dominguez Carrió (University of the Azores, Portugal),
Johanne Vad (University of Edinburgh, United Kingdom)
Scottish Centre for Ecology and Natural Environment (SCENE)

2025 Contributing and publishing datasets to OBIS (self-paced) (28 Febraio 2024)
Organized by UNESCO/IOC Project Office for IODE

2025 Phyton
Organized by APECS Italy

2025 Bayesian Phylogenetics Workshop
29th-30th April 2025
IOE – University College London, UK
Organized by Systematics Association and the Society of Spanish Researchers in the United Kingdom

2025 Workshop British Antarctic Survey
9/09/2025 – 11/09/2025
British Antarctic Survey (Cambridge, UK)

Citizen science Project

2023 – at present

Co-founder of the *citizen science* project st[r]anding for monitoring stranded marine fauna.
Web site: https://strandingcitizenscience.wordpress.com/
App: St[r]anding Citizen Science
https://play.google.com/store/apps/details?id=com.stranding.stranding

Personal expertise

Languages

Native language: Italiano

Others:

English	*UNDERSTANDING*:	Listening	B1	*SPEAK:* Interaction	B2	*WRITTEN PRODUCTION*:	B1
		Reading	B1	Oral production	B2		
German	*UNDERSTANDING*:	Listening	A2	*SPEAK:* Interaction	A2	*WRITTEN PRODUCTION*:	A2
		Reading	A2	Oral production	A2		

Excellent interaction and communication skills with the public acquired during numerous museum exhibitions. Social media curator for scientific activities carried out during the JR18003 expedition (Twitter: ICEBERGS_JCR https://twitter.com/ICEBERGS_JCR) and Discovery100 (Twitter: DevelopingOceans https://twitter.com/developingocean) and for APECS Italy (Facebook: https ://www.facebook.com/ApecsIT IG: https://www.instagram.com/apecs.italy/ Twitter: https://twitter.com/apecsitaly Youtube: https://www.youtube.com/channel /UCHb-J-JeMriRxw8QpbZrgpA).
Creator and curator of the APECS Italia website: https://www.apecsitaly.it/.
Occasional collaborator for Geoscape Società Cooperativa (SpinOff of the University of Genoa https://www.geoscape.it/).
Organizer of the 3rd, 4th and 5th APECS ITALY NATIONAL CONFERENCE.
Member of the Council and National Representative of APECS Italy.
Participant in the Italian SCAR Science Group (10/06/2022).
Participant of the PNRA Workshop “Una visione del futuro, Verso una programmazione pluriennale del PNRA” (5 and 6 December 2023 – Rome, Villa Torlonia)

IT expertise

- *General:*
  Microsoft Office
  Adobe Photoshop
  WordPress
  ImageJ
  WordPress
  AutoCAD (and similar)

- *Statistics:*
  R
  R Studio

- *Cartography:*
  GIS (+ QuAntarctica)
  GRASS

- *Professional competency:*
  MEGA 7
  MEGA X
  CodoCode Aligner
  RAxML
  MrBayes
  PopART (Population Analysis with Reticulate Trees)
  Automatic Barcode Gap Discovery (ABGD) (bioinfo.mnhn.fr/abi/public/abgd)

Generalized Mixed Yule Coalescent method (GMYC) (species.h-its.org/gmyc)
Bayesian Poisson tree process (bPTP) (species.h-its.org/ptp).
TagLab
Rootpaint

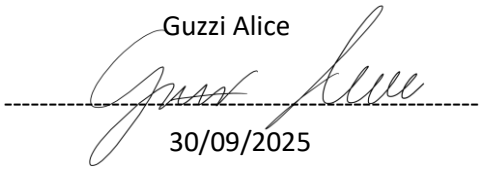
Other

Diving patents OPEN WATER DIVER
ADVANCED OPEN WATER DIVER
DIVE MEDIC & OXYGEN PROVIDER
DEEP DIVER
DRY SUIT DIVER
HSA DIVE BUDDY
SSI Computer Diving
SSI React Right - Course Combination (FA, CPR, AED, O2)

Driving licence: B

Pursuant to Legislative Decree 196/2003, I authorize the processing of my personal data.

Guzzi Alice



30/09/2025