

Alice Guzzi

Curriculum Vitae (updated April 2023)

Date of birth: 10/05/1994

Nationality: Italiana

E-mail: aliceguzzi@libero.it

Skype: i-alice

University of Genoa

Department of Earth, Environmental and Life Sciences

(DISTAV)

C.so Europa, 26,

16132 Genova, ITALIA

Tel: 010 353 8017

&

Italian National Antarctic Museum (MNA) - Genoa section

Viale Benedetto XV 5

16132 Genova, ITALIA

Tel: +39 010 3538329

Member of the National Committee and National Representative of APECS Italy

<https://www.apecsitaly.it/>

Link

https://www.researchgate.net/profile/Alice_Guzzi2

<https://steu.shinyapps.io/MNA-generale/>

Current position

01/03/2023 – 29/02/2024

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

Academic education

- **2019 – at present 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
Università degli studi di Siena & Museo Nazionale dell’Antartide – sezione di Genova
- **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
Università degli studi di Genova & Museo Nazionale dell’Antartide – sezione di Genova
- **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
Università degli studi di Genova & Museo Nazionale dell’Antartide – sezione di Genova

ISI publications (2017-2023)

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, M.C., **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>

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.accademialigurediscienzelettere.it/index.php/publicazioni/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

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, Scourse 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

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.

Supervisor and co-supervisor activity

2021 Co-supervisor

Co-supervisor of the candidate Alessia Merialdi

Thesis topic: "Characterization of *Iophon spp.* (Acantharia; Demospongiae) in association with ophiurids of the genus *Ophioplathus*: molecular and morphological aspects"

Bachelor Degree in Biological Sciences, Università degli Studi di Genova - 15/12/2021

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 Virtual: 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 *Ophioplithus* 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

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 *Ophioplithus 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 immersioni 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 *DEPARTMENTAL SEMINARS DISTAV Genova, Italia (31 Gennaio 2022)*
Alice Guzzi – Morphological and genetic variation in Southern Ocean Echinoderms with main focus on brittle stars (Ophiuroidea)
- 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 Tutorial 4 on Integrative Taxonomy: a case study with Antarctic Echinoderms
Lecturer in Biological Oceanography
Scottish Association for Marine Science, Oban, 21/02/2022
- 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

Training courses

- 2017 Use of R's software
Università di Genova – Dipartimento di Economia
- 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 EDUCATIONAL COURSE 24 CFU

Università degli Studi di Genova

- Pedagogy, special pedagogy and didactics of inclusion;
- Psychology;
- Anthropology;
- Methodologies and teaching technologies;

2022 Qualification of Technical Manager of the National Register of Environmental Managers

COMPULSORY SECTION FOR ALL CATEGORIES (validità 13/04/2027)

CATEGORIES SPECIALIST SECTION 1-4-5 (validità 13/04/2027)

Camera di Commercio Industria Artigianato e Agricoltura di GENOVA

Piazza De Ferrari, 2 16121 GENOVA (GE)

2022 Digital cartography and GIS

Organized by APECS Italia & Geoscape Società Cooperativa - SpinOff of the University of Genova

Personal expertise

Languages

Native language: Italiano

Others:

English	<i>UNDERSTANDING:</i>	Listening B1	<i>SPEAK:</i>	Interaction B2	<i>WRITTEN PRODUCTION:</i>	B1
		Reading B1		Oral production B2		
German	<i>UNDERSTANDING:</i>	Listening A2	<i>SPEAK:</i>	Interaction A2	<i>WRITTEN PRODUCTION:</i>	A2
		Reading A2		Oral production A2		

Certifications

English: Cambridge ESOL Entry Level Certificate in ESOL International (Entry 3)

Preliminary English Test – Council of Europe Level B1

Marzo 2012

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-JeMriRwx8QpbZrgpA>).

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 and 4th APECS ITALY NATIONAL CONFERENCE.

Member of the Council and National Representative of APECS Italy.

Participant in the Italian SCAR Science Group (10/06/2022).

IT expertise

- *General:*
 - Microsoft Office
 - Adobe Photoshop (basic knowledge of photo editing for scientific publications)
 - WordPress
 - ImageJ

WordPress
AutoCAD (and similar)

- *Statistics:*
R
R Studio
- *Cartografia:*
GIS e GRASS (+ QAntarctica)
- *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).

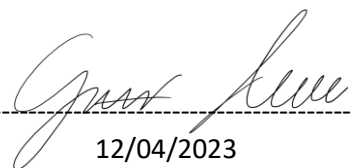
Other

Diving patents OPEN WATER DIVER
 ADVANCED OPEN WATER DIVER
 DIVE MEDIC & OXYGEN PROVIDER
 DEEP DIVER
 DRY SUIT DIVER

Driving licence: B

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

Guzzi Alice



12/04/2023