

CV Camilla Sguotti

PERSONAL DETAILS

Family name, First name: Sguotti Camilla

ORCID: **0000-0002-3019-6273**

Date of birth: 25/06/1990

Nationality: Italian

URL for web site: **Scopus** <https://www.scopus.com/authid/detail.uri?authorId=57195464321>

Researchgate <https://www.researchgate.net/profile/Camilla-Sguotti>

- **Education and key qualifications**

2016-2019 **PhD (MSCA ITN MARmaED)**

Institute for Marine Ecosystems and Fishery Science, University of Hamburg, Germany
(hereafter *IMF@UH*)

Name of PhD Supervisor: Prof Christian Möllmann

Title of the thesis: *North Atlantic cod recovery under climate change and exploitation pressure, a non-linear approach*. Date awarded: 01/02/2019.

2012-2014 **Master in Marine Biology**, Department of Biology, University of Padova, Italy (hereafter, *DiBio@UNIPD*)

2009-2012 **Bachelor in Biology**, *DiBio@UNIPD*

- **Current position(s)**

February 2025 - to date: **Associate Professor of Ecology**, *DiBio@UNIPD*

- **Current project(s)**

1st March 2025 – 2030 **PI of ERC StG project FEEDRES** (Call: ERC-2024-STG (101163496))

- **Previous position(s)**

2022 - 2024 **Marie Skłodowska-Curie (MSCA) Post-Doctoral fellow** (188590 euro) *DiBio@UNIPD*

2019 - 2022 **Post-Doctoral Researcher** *IMF@UH*. PostDoc in the SeaUseTip project working on discontinuous dynamics of the North Sea ecosystem. (PI: Christian Möllmann)

2015 – 2016 **Scholarship** at National Research Council (CNR), Italy

- **FELLOWSHIPS AND AWARDS**

2024 ERC Starting Grant (<https://erc.europa.eu/apply-grant/starting-grant>) for the project FEEDRES (Feedback mechanisms approach to resolve regime shifts in ecological systems) (1,377,554.00 Euro).

2023 EuroMarine ReMSES workshop (Resilience of marine socio-ecological systems: from a mechanistic understanding to an integration into policies to support diverse, healthy, and

productive oceans) (10,000 euro)

2022 – 2024 Marie Skłodowska-Curie (MSCA) Postdoctoral fellow, (188,590 euro), *DiBio@UNIPD*.

Visiting periods

- University of California Santa Barbara, Santa Barbara, California, USA. Prof. Adrian Stier (March 2020) (Working on detecting regime shifts in the North Sea).
- Scripps Institute of Oceanography, San Diego, California, USA. Prof. George Sugihara (February 2020) (Working on applications of the Empirical Dynamic Modelling Framework).
- Environmental Economic and Natural Resources Group, Wageningen University, Netherlands. Prof. Andries Richter (March 2018) (Working on a paper on trade dynamics of Atlantic cod).
- Marine Stewardship Council, Berlin, Germany. (August 2018). (Learning MSC labelling process)
- Center of ecology and evolutionary Synthesis (CEES), University of Oslo, Norway. Prof. Joel Durant (March 2017). (Working on detecting non-linear dynamics in fish populations)

• ORGANISATION OF SCIENTIFIC MEETINGS

2023 EuroMarine workshop ReMSES (Resilience of marine socio-ecological systems: from a mechanistic understanding to the integration into policies to support diverse, healthy, and productive ecosystems). Number of participants: 24 or more. Italy. Funding (10000 euro).

2021 - 2023 Meeting of the ICES Working Group on History of Fish and Fisheries (WGHIST). Number of participants: always around 20, hybrid meetings.

2018 ECOECO Workshop for our MARmaED Project, Number of participants:17. Germany.

2018 and 2019 BCDC “Biology Conference for Doctoral Candidate”, Hamburg. Number of participants: more than 100. Germany.

• REVIEWING ACTIVITIES

2019 – today Reviewer for various scientific Journals: (Fish and Fisheries, MEPS, ICES JMS)

2020 Evaluator of a grant proposal for the Alaska Sea Grant

• MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Nov 2024 **Chair** of the ICES SCICOM Working Group on Comparative Ecosystem-based analyses of Atlantic and Mediterranean Sea (WGCOMEDA), ICES, Denmark (member since 2019).

2021 – to date **Chair** of the ICES SCICOM Working Group on the History of Fish and Fisheries (WGHIST), (ICES), Denmark.

2023 – to date Member of the TransOcean Working Group, Euromarine.

2016 – 2019 Member of the ICES Working Group on Integrative Assessment of the Baltic Sea (WGIAB), ICES, Denmark.

RESEARCH ACHIEVEMENTS AND PEER RECOGNITION

Google scholar: 20 scientific publications published, 1 pre-print, 2 book chapters, multiple reports, cited 659 times, h-index=12

Scopus: 20 scientific publications, cited 408 times, h-index=11

Research achievements (10 most important publications)

Sguotti C, Frelat R, Vasilakopoulos P, Tzanatos E. (2024) Resilience assessment in complex natural systems. *Proceedings of the Royal Society B* **291**:20240089.

Impact factor of the Journal: 5.53

Sguotti C, Otto SA, Frelat R, Langbehn TJ, Ryberg MP, Lindegren M, Durant JM, Chr. Stenseth N, Möllmann C. (2019) Catastrophic dynamics limit Atlantic cod recovery. *Proceedings of the Royal Society B*,

286: 20182877. <http://dx.doi.org/10.1098/rspb.2018.2877>

Impact factor of the Journal: 5.53

Sguotti C, Faerber L, Romagnoni G (2023) Regime Shifts in coastal marine ecosystems: theory, methods and management perspectives. *Reference Module in Earth Systems and Environmental Sciences*, Elsevier. <https://doi.org/10.1016/B978-0-323-90798-9.00004-4>

Sguotti C, Bishoff A, Conversi A, Mazzoldi C, Möllmann C, Barausse A (2022) Stable landings mask irreversible community reorganizations in an overexploited Mediterranean ecosystem. *Journal of Animal Ecology*. <https://doi.org/10.1111/1365-2656.13831>

Impact factor Journal: 5.6

Sguotti C, Bloecker A, Faerber L, Blanz B, Cormier R, Diekmann R, Letschert J, Rambo H, Stollberg N, Stelzenmuller V, Stier C A, Möllmann C (2022) Irreversibility of regime shifts in the North Sea. *Frontiers in Marine Science*, vol 9. <https://doi.org/10.3389/fmars.2022.945204>

Impact factor Journal: 5.24

Sguotti C, Lynam, CP, García-Carreras, B, Ellis, JR and Engelhard, GH. (2016), Distribution of skates and sharks in the North Sea: 112 years of change. *Global Change Biology*, 22: 2729–2743. doi:10.1111/gcb.13316

Impact factor of the Journal: 13.2

Conradt J, Funk S, **Sguotti C**, Voss R, Blenckner T, Möllmann C. (2024) Robust fisheries management strategies under deep uncertainty. *Scientific Report*, 14, 16863. <https://doi.org/10.1038/s41598-024-68006-5>

Impact factor of the Journal: 3.8

Möllmann C, Cormon X, Funk S, Otto S, Schmidt J, Schwermer H, **Sguotti C**, Voss R, Quaas M. (2021) Tipping Point realized in cod fishery. *Scientific Reports*, 11, 14259 (2021). <https://doi.org/10.1038/s41598-021-93843-z>

Impact factor of the Journal: 4.99

Koul V, **Sguotti C**, Arthun M, Brune S, Düsterhus A, Bogstad B, Ottersen G, Baehr J, Schrum C. (2021) Skilful prediction of cod stocks in the North and Barents Sea a decade in advance. *Communications Earth and Environment*, 2, 140. <https://doi.org/10.1038/s43247-021-00207-6>

Impact factor of the Journal: 7.9

Sguotti C, Gokhale S, Lai T-Y, Schuch E, Moellmann C, Richter A. (2023) Telecouplings in Atlantic cod stocks – the role of global trade and climate change. *Marine Policy*.

Impact factor of the Journal: 4.3

Peer recognition

Conferences

Keynote speaker at the “World Conference on natural resource modelling: tipping ecological-economic systems towards sustainability”, with a talk titled: “Approaches to understand the resilience of marine resources”. 01/05/2021 - 04/06/2021, Virtual Conference.

Invited speaker at the international conference in “Models in Population dynamics, ecology and evolution”, with a talk titled “Approaches to understand the resilience of marine populations and communities. 15/04/2024-19/04/2024, Leicester, UK.

Invited speaker at a Session about tipping points at the PICES (North Pacific Marine Science Organization) Conference, with a talk titled “Approaches to detect tipping points and estimate the resilience of marine populations and communities”, 26/10/2024-01/11/2024, Honolulu, Hawaii, USA.

Oral presentation at ICES Conference ASC 2024 “The future of ecosystem-based management from the past: what can we learn from past practices?”, 09-12/09, Gateshead, United Kingdom.

Oral presentation at the ASLO Aquatic Science Conference 2023 “Stable landings mask irreversible regime shifts in an overexploited Mediterranean ecosystem”, 04-09/6/2023 Palma, Spain.

Session host at Climate Change Symposium (ECCWO5). “Detectability of non-linearities, abrupt shifts and tipping points in marine ecosystems” with Prof. Thorsten Blenckner and Dr. Friederike Froeb, 19 - 23/04/2023 Bergen, Norway

Oral presentation at the Climate Change Symposium (ECCWO5) Workshop 2023 “Stable landings mask irreversible regime shifts in an overexploited Mediterranean ecosystem”, 19 - 23/04/2023 Bergen,

Norway.

Oral presentation at ICES Conference ASC 2022 “CUSPRA: a new method to assess ecological resilience to multiple interactive drivers”, 19 - 22/09/2022 Virtual.

Oral presentation at Ocean Science Conference 2020 “The synergistic effect of climate change and fishing on multiple populations of Atlantic cod”, 16 - 21/02/2020 San Diego, California, USA

Session host at ICES Conference 2018. “Tipping points complex nature and implications to marine socio-ecological systems management” with Dr. Xochitl Cormon, Prof. Christian Möllmann and Dr. Mary Hunsicker, 24 - 27/09/2018 September 2018 Hamburg.

Oral presentation at ICES Conference 2018. “Teleconnection of Atlantic cod stocks in the world market”. 24 - 27/09/2018, Hamburg.

Oral presentation at the 4th International Climate Change Symposium “Linear or non-linear? Understanding the effect of Climate Change on Atlantic cod recruitment”. 04 - 08/06/2018, Washington, USA.

Session host at YOUMARES 8 of the session “Ecosystem dynamics in a changing world: regime shifts and resilience in marine communities” together with Dr Xochitl Cormon, Kiel, Germany, 13 - 15/09/2017.

Oral presentation at the 3rd PICES/ICES Early Career Scientists Symposium “The failed recovery of Atlantic cod stocks”. 30/05/2017- 02/06/2017 June 2017 Busan, South Korea.

Oral presentation at the FSBI 2015 Symposium on the “Biology, Ecology and Conservation of Elasmobranchs”, with title “Atlas of southern North Sea elasmobranchs: 112 years of changing distributions in eight vulnerable sharks, skates and rays”. 27 - 31/07/2015, Plymouth, UK.

All the oral presentations and the theme sessions were performed at important international conferences. I was selected to give oral presentations after a selection process. Additionally, I also presented a number of poster presentations.

ADDITIONAL INFORMATION

Career breaks, diverse career paths and major life events

COVID did not have a strong impact on my performances since I can carry out my work also remotely. The only impact it had in my career was that it shortened my research stay abroad at University of Santa Barbara. From October 2022 to end of February 2023 (5 months) I was on **maternity leave**.

Other contributions to the research community

I believe communicate our results to the general public is important and fundamental especially in an epoch in which scientific facts are always challenged. Thus, I had the idea to start a cycle of meetings called “Spritz di scienza” (similarly to Pint of Beer) in Chioggia, which is the seat of the marine biology group of University of Padova. I organized these meeting monthly in which the researchers of the group do presentations about their work on the Adriatic Sea and the Venice Lagoon to the general public. We had 5 meetings starting in June 2023 and we had good feedbacks from the public. More or less 40 people attended every meeting.

Padova, 17/06/2025

Camilla Sguotti

Le informazioni contenute nel presente curriculum vitae et studiorum sono rese sotto la personale responsabilità del sottoscritto ai sensi degli art. 46 e 47 del DPR 28.12.2000, n. 445, consapevole della responsabilità penale prevista dall'art. 76 del medesimo DPR 28.12.2000, n.445, per le ipotesi di falsità in atti e dichiarazioni mendaci.