



JILDA ALICIA CACCAVO

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Gender F | Date of birth January 6th, 1986 | Nationality USA

EDUCATION

- Nov. 2014 – Oct. 2018 **Doctorate of Science (Ph.D.) in Ecology**
University of Padua, Italy
- Sep. 2013 – Sep. 2014 **Master of Science (M.S.) in Aquatic Biology**
Queen Mary University of London, UK
- Sep. 2009 – Oct. 2012 **Master of Science (M.S.) in Biological Sciences**
Rockefeller University, NY, USA
- Sep. 2004 – June 2009 **Bachelor of Arts (A.B.) in Neurobiology**
Harvard University, MA, USA

RESEARCH EXPERIENCE

- Feb. 2026 – Present **Research Associate (Post-doc)**
Laboratory of Oceanography and Climate Paris 75005, France
Identifying the climate drivers of genomic adaptation in the Peruvian anchoveta
- April 2022 – Feb. 2026 **Research Associate (Post-doc)**
Laboratory of Climate and Environmental Sciences Gif sur Yvette 91191, France
Laboratory of Oceanography and Climate Paris 75005, France
Climate genomics of Antarctic toothfish to model and project distributions under environmental change
- May 2019 – April 2022 **Research Associate (Post-doc)**
Alfred Wegener Institute Bremerhaven 27570, Germany
Berlin Center for Genomics in Biodiversity Research Berlin 14195, Germany
Leibniz Institute for Zoo and Wildlife Research Berlin 10315, Germany
Assessing population structure of Antarctic toothfish to inform management spatial planning
- Nov. 2014 – Oct. 2018 **Graduate student in the Laboratory of Molecular Ecology**
University of Padua Padua 35121, Italy
Multidisciplinary approaches assessing population structure of Antarctic silverfish in the Southern Ocean
- Dec. 2013 – Oct. 2014 **Graduate student in the Benthic Evolutionary and Molecular Ecology group**
Institute of Zoology London NW1 4RY, UK
Using microsatellites to characterize population ecology of sea pens in the North Sea
- Oct. 2009 – Oct. 2012 **Graduate student in the Laboratory of Biology of Addictive Diseases**
Rockefeller University New York, NY 10065, USA
Identifying mechanisms underlying drug escalation behavior in rats

SCIENTIFIC LEADERSHIP

- Aug. 2024 – Present **Executive Group, Chief Officer**
Scientific Committee on Antarctic Research (**SCAR**) Action Group on Fish (**SCARFISH**) coordinating fish research to inform management and improve sample and fieldwork access in the Southern Ocean
- Oct. 2022 – Present **Advisory Committee, member**
Association for Polar Early Career Scientists (APECS) an international and interdisciplinary organization of ECS promoting polar research, career development and scientific outreach
- June 2021 – Oct. 2025 **Steering Committee, Chief Officer**
SCAR Scientific Research Programme (**SRP**) **Integrated Science to Inform Antarctic and Southern Ocean Conservation (Ant-ICON)** coordinating policy-driven research to conserve and manage Antarctica and the Southern Ocean

- Jan. 2022 – Aug. 2025 Leadership Steering Group, **Chief Officer**
SCAR Action Group on **Equality, Diversity and Inclusion (EDI)** addressing EDI issues within SCAR and taking practical actions relevant to the community
- July 2020 – Aug. 2025 Scientific Steering Committee, **member**
Southern Ocean Observing System (SOOS) facilitating the collection and delivery of essential observations on dynamics and change of Southern Ocean systems to international stakeholders
- April 2019 – Jun. 2024 Steering Committee, **member**
Marine Ecosystem Assessment for the Southern Ocean (MEASO) assessing status and trends of habitats, species and food webs with the aim to provide a common foundation for science and policy
- Oct. 2017 – Oct. 2022 Executive Committee, **Vice-President, President, ex-officio**
Association for Polar Early Career Scientists (APECS)

PEER-REVIEWED
PUBLICATIONS

Caccavo JA, Celemín E, de Villemereuil P, Gehlen M (2026) Salinity exposure in early-life drives genomic adaptation to climate change in Antarctic toothfish (*Dissostichus mawsoni*). *Evolutionary Applications*. *Under review*. <https://doi.org/10.64898/2026.01.18.700237>

Caccavo JA, Arantes LS, Celemín E, Mbedi S, Sparmann S, Mazzoni CJ (2025) Whole-genome resequencing reveals exceptions to panmixia in the exploited top fish predator Antarctic toothfish (*Dissostichus mawsoni*). *Ecology and Evolution*. *Under review*. <https://doi.org/10.64898/2025.12.01.691552>

Hettiarachchi SA, Lee S, Kim I-C, Lee J-S, Desvignes T, York JM, Ghigliotti L, **Caccavo JA**, Kim J-H (2025) Adaptation to extreme environments: A review of Antarctic fish physiology. *Journal of Fish Biology*. *Under review*.

Caccavo JA, Brooks C, Carlig E, Cavanagh R, Desvignes T, Di Blasi D, Freer JJ, Ghigliotti L, Jones C, Jin-Hyoung K, Kwasniewski H, Konijnenberg R, Maschette D, Mori M, Novillo M, Pinkerton MH, Queirós JP, Reid WDK, Van de Putte A, York JM, SCARFISH members (2025) SCARFISH: a new SCAR Action Group to coordinate Antarctic fish research. *Journal of Fish Biology*. <https://doi.org/10.1111/jfb.70444>.

Rintz CL, Koubbi P, Ramiro-Sánchez B, Azarian C, **Caccavo JA**, Cotté C, Goberville E, Godet C, Hulley PA, Le Goff R, Leprieur F, Robuchon M, Serandour B, Leroy B (2025) Biogeographical regions and climate change: lanternfishes shed light on the role of climatic barriers in the Southern Ocean. *Global Change Biology*. 31: e70256. <https://doi.org/10.1111/gcb.70256>

Nissen C, **Caccavo JA**, Morée AL (2025) Twenty-First-Century Environmental Change Decreases Habitat Overlap of Antarctic Toothfish (*Dissostichus mawsoni*) and Its Prey. *Global Change Biology*. 31, e70063. <https://doi.org/10.1111/gcb.70063>

Caccavo JA, Arantes LS, Celemín E, Mbedi S, Sparmann S, Mazzoni CJ (2024) Whole-genome resequencing improves the utility of otoliths as a critical source of DNA for fish stock research and monitoring. *Molecular Ecology Resources*. 24(8), e14013. <https://doi.org/10.1111/1755-0998.14013>

Moreno-Ibáñez M, Casado M, Gremion G, Rabanal V, Adojoh O, Anoruo C, Arshad A, Faten AB, Bello C, Bergstedt H, **Caccavo JA**, Champollion N, Choy ES, De Los Ríos MF, Detlef H, Dey R, Gamal G, Guímaro H, Hancock S, Hansen C, Hare V, Höfer J, Jabir T, Jain S, Jawak S, Latonin M, Martin J, Mojica-Moncada J, O'Hara R, Onafeso O, Prasath AR, Alves EQ, Raez-Villanueva S, Rosenbaum P, Pereira SR, Savaglia V, van Soest M, Vural D (2024) Engagement of Early Career Researchers in Collaborative Assessments of IPCC Reports: Achievements and Insights. *Frontiers in Climate*. 6:1395040. <https://doi.org/10.3389/fclim.2024.1395040>

Caccavo JA, Frémont P, Jaillon O, Gehlen M (2023) Climate Genomics – geoscientists, ecologists and geneticists must reinforce their collaborations to confront climate change. *Global Change Biology*. 29(21): 5999–6001. <https://doi.org/10.1111/gcb.16924>

Arantes LS, **Caccavo JA**, Sullivan JK, Sparmann S, Mbedi S, Höner OP, Mazzoni CJ (2023) Scaling-up RADseq methods for large datasets of non-invasive samples: lessons for library construction and data preprocessing. *Molecular Ecology Resources*. 00, 1–15. <https://doi.org/10.1111/1755-0998.13859>

Gulisano AM, Saarikoski P, **Caccavo JA**, Beck I. (2023). Addressing Equality, Diversity, and Inclusion from within the Scientific Committee on Antarctic Research. *Antarctic Affairs*. 10. <https://antarcticaffairs.org/addressing-equality-diversity-and-inclusion-from-within-the-scientific-committee-on-antarctic-research/>

Hughes KA, Santos M, **Caccavo JA**, Chignell SM, Gardiner NB, Gilbert N, Howkins A, Van Vurren BJ, Lee JR, Liggett D. (2022). Ant-ICON-Integrated Science to Inform Antarctic and Southern Ocean Conservation: a new SCAR Scientific Research Programme. *Antarctic Science*. 34(6), 446–455. <https://doi.org/10.1017/S0954102022000402>

Caccavo JA, Christiansen H, Constable AJ, Ghigliotti L, Trebico R, Brooks CM, Cotte C, Desvignes T, Dorman T, Jones CD, Koubbi P, Saunders RA, Strobel A, Vacchi M, Van de Putte AP, Walters A, Waluda CM, Woods B, Xavier JC (2021) Productivity and change in fish and squid in the Southern Ocean. *Frontiers in Ecology and Evolution*. 9:351. <https://doi.org/10.3389/fevo.2021.624918>

Caccavo JA, Raclot T, Poupart T, Ropert-Coudert Y, Angelier F (2021) Anthropogenic activities are associated with shorter telomeres in chicks of Adélie penguin (*Pygoscelis adeliae*). *Polar Biology*. 44:1391–1399. <https://doi.org/10.1007/s00300-021-02892-7>

Brasier MJ, McCormack S, Bax N, **Caccavo JA**, Cavan E, Ericson JA, Figuerola B, Hancock A, Halfter S, Hellessey N, Höfer J, Puskic P, Soares de Oliveira C, Subramaniam R, Wallis J, Weldrick CK (2020) Overcoming the Obstacles Faced by Early Career Researchers in Marine Science: Lessons From the Marine Ecosystem Assessment for the Southern Ocean. *Frontiers in Marine Science*. 7:692. <https://doi.org/10.3389/fmars.2020.00692>

Casado M, Gremion G, Rosenbaum P, **Caccavo JA**, Aho K, Champollion N, Connors S, Dahood A, Fernandez A, Lizotte M, Mintenbeck K, Poloczanska E, Fugmann G (2020) The benefits to climate science of including Early Career Scientists as reviewers. *Geoscience Communication*. 3:89–97. <https://doi.org/10.5194/gc-3-89-2020>

Bohleber P, Casado M, Ashworth K, Belcher A, Baker CA, **Caccavo JA**, Jenkins HE, Satterthwaite E, Spolaor A, Winton VHL (2020) Successful Practice in Early Career Networks: Insights from the Polar Sciences. *Advances in Geosciences, Special Issue: Diversity and equality in the geosciences*. 53, 1–14, 2020. <https://doi.org/10.5194/adgeo-53-1-2020>

Caccavo JA, Ashford JR, Ryan S, Papetti C, Schröder M, Zane L (2019) Spatial structuring and life history connectivity of Antarctic silverfish along the southern continental shelf of the Weddell Sea. *Marine Ecology Progress Series*. 624:195-212. <https://doi.org/10.3354/meps13017>

Caccavo JA, Papetti C, Wetjen M, Knust R, Ashford J, Zane L (2018) Along-shelf connectivity and circumpolar gene flow in Antarctic silverfish (*Pleuragramma antarctica*). *Scientific Reports*. 8:17856. <https://doi.org/10.1038/s41598-018-36030-x>

Brooks C, **Caccavo JA**, Ashford J, Dunbar R, Goetz K, La Mesa M, Zane L (2018) Early life history connectivity of Antarctic silverfish (*Pleuragramma antarctica*) in the Ross Sea. *Fisheries Oceanography*. 00:1–14. <https://doi.org/10.1111/fog.12251>

Schiavon L, Milan M, Lucassen M, **Caccavo JA**, Paterno M, Boscarri E, Marino IAM, Congiu L, Zane L (2018) Genetic variability of the striped venus *Chamelea gallina* in the northern Adriatic Sea. *Fisheries Research*. 201:68–78. <https://doi.org/10.1016/j.fishres.2018.01.006>

Picetti R, **Caccavo JA**, Ho A, and Kreek MJ (2012) Dose escalation and dose preference in extended access heroin self-administration in Lewis and Fischer rats. *Psychopharmacology*. 220:163–172. <https://doi.org/10.1007/s00213-011-2464-4>

GRAY LITERATURE
PUBLICATIONS

Caccavo JA, Brooks C, Cavanagh R, Desvignes T, Dorman T, Filander Z, Finucci B, Ghigliotti L, Halfter S, Kwasniewski H, Leeger R, Maschette D, Masere C, Novillo M, Pinkerton M, Pompert J, Queirós JP, Teschke K, Reid WDK (2024) Introduction to the SCAR Action Group on Fish (SCARFISH) CCAMLR Forty-third Meeting of the Scientific Committee. SC-CAMLR-43/BG/24. <https://meetings.ccamlr.org/en/sc-camlr-43/bg/24>

Jones CD, **Caccavo JA**, Brooks C, Desvignes T, Dorman T, Filander Z, Finucci B, Ghigliotti L, Guerreiro PM, Halfter S, Hollyman P, Kwasniewski H, Leeger R, Maschette D, Masere C, Moreira E, Novillo M, Queirós JP, Reid WDK, Vargas- Chacoff L (2024) Introduction to the SCAR Action Group on Fish (SCARFISH). CCAMLR Working Group on Fish Stock Assessment. WG-FSA-24/74. <https://meetings.ccamlr.org/en/wg-fsa-imaf-2024/74>

Kim E, Lam CH, Cleeland J, Appert C, **Caccavo J**, Collins M, Devine J, Hollyman P, Jones C, Masere C, Okuda T, Parker S, Vizuet RS (2024) SOFETAG - Southern Ocean Fish Electronic Tagging and Data Sharing Initiative: an open invitation to collaborate. CCAMLR Working Group on Fish Stock Assessment. WG-FSA-24/60. <https://meetings.ccamlr.org/en/wg-fsa-imaf-2024/60>

Caccavo JA, d'Ovidio F, Gehlen M (2023) Climate Genomics of Antarctic Toothfish (ClimGenAT). CCAMLR Workshop on Climate Change. WS-CC-23/22. <https://meetings.ccamlr.org/en/ws-cc-2023/22>

Constable A, Melbourne-Thomas J, Muelbert M, Hollowed A, **Caccavo J**, Henley S, Höfer J, Johnston NM, Murphy EJ, van de Putte A (2023) Summary for Policymakers-Marine Ecosystem Assessment for the Southern Ocean. <https://doi.org/10.5281/zenodo.8359585>

Konijnenberg R, Nissen C, Kraan C, Caccavo JA, Cárdenas CA, Collins M, Okuda T, Sarralde Vizueté R, Yates P, Ziegler P, Teschke K, (2023) Predicting future fishable distribution of Antarctic toothfish (*Dissostichus mawsoni*), with implications for Marine Protected Areas in the Southern Ocean. CCAMLR Workshop on Climate Change. WS-CC-23/08. <https://meetings.ccamlr.org/en/ws-cc-2023/08>

Caccavo JA, Gasco N, Chazeau C, Jones C, Eléaume M (2023) Otoliths as a source of DNA: recommendations on improving dissection and storage methods. CCAMLR Workshop on Age Determination Methods. WS-ADM-23. <https://tinyurl.com/yxp6t5km>

Newman L, Hancock A, Hofmann E, Williams MJM, Henley S, Moreau S, Bricher P, Ackley S, Beja J, **Caccavo J**, Diggs S, Fawcett S, Fretwell P, Gille S, Heil P, Herraiz Borreguero L, Höfer J, ten Hoopen P, Kern S, ... Wang Z (2022) SOOS Science and Implementation Plan 2021-2025. Zenodo. <https://doi.org/10.5281/zenodo.6324359>

Gremion G, Casado M, Aho K, **Caccavo JA**, Champollion N, Choy E, Connors SL, Dey R, Fernández A, Fugmann G, Höfer J, Jawak S, Lizotte M, Maes S, Mayers K, Mintenbeck K, Mojica JF, Pandit P, Poloczanska E, Rosenbaum P, Seyboth E, Shakil S, van Soest M (2020) What Peer-review Experiences Can Offer To Early Career Scientists And To The Scientific Community. Proceedings of the 5th International Young Earth Scientists (YES) Congress "Rocking Earth's Future" Berlin, Germany 2019. 15. <https://doi.org/10.2312/yes19.15>

Söffker M, Riley A, Belchier M, Teschke K, Pehlke H, Somhlaba S, Graham J, Namba T, van der Lingen CD, Okuda T, Darby C, Albert OT, Bergstad OA, Brtnik P, **Caccavo JA**, Capurro A, Dorey C, Ghigliotti L, Hain S, Jones CD, Kasatkina S, La Mesa M, Marichev D, Molloy E, Papetti C, Pshenichnov L, Reid K, Santos MM, Welsford D (2018). Annex to WS-DmPH-18 report: Towards the development of a stock hypothesis for Antarctic toothfish (*Dissostichus mawsoni*) in Area 48. CCAMLR Working Group on Fish Stock Assessment. WG-SAM-18/33 Rev. 1. <https://meetings.ccamlr.org/en/wg-sam-18/33-rev-1>

Caccavo JA, Brooks C, Zane L, Ashford JR (2015) Identification of *Pleuragramma antarctica* larvae in the Ross Sea via mitochondrial DNA. CCAMLR Working Group on Fish Stock Assessment. WG-FSA-15/61. <https://meetings.ccamlr.org/en/wg-fsa-15/61>

INVITED TALKS

- Mar. 2026 **International Union for Conservation of Nature (IUCN) Red List Workshop**. Puerto Varas, Chile
[Extinction risk of marine bony fish species of the Southern Ocean](#).
Caccavo JA
- Mar. 2026 **Instituto del Mar del Perú (IMARPE) seminar series**. online
[Climate change impacts on exploited species of the Humboldt Current Ecosystem through the lens of adaptation and early life history](#).
Caccavo JA
- Feb. 2024 **Polar Symposium 2024**. Monaco
[Kick-off session](#) speaker.
Caccavo JA
- Nov. 2023 **Laboratory of Biology of Aquatic Organisms and Ecosystems (BOREA) seminar series**. online
[Climate change impacts on Antarctic biota through the lens of adaptation and early-life history of toothfish](#).
Caccavo JA
- Nov. 2023 **Institute of Systematics, Evolution and Biodiversity (ISYEB) seminar series**. Paris, France
Climate change impacts on Antarctic biota through the lens of adaptation and early-life history of toothfish.
Caccavo JA
- July 2023 **British Antarctic Survey (BAS) Ecosystems seminar series**. Cambridge, UK
[How Climate Genomics can Help Predict Distribution Shifts in Southern Ocean Species Exposed to Environmental Change](#). (recording password F5d&BIX9)
Caccavo JA
- Mar. 2023 **KER-TREND**. Paris, France
Climate Genomics.
Caccavo JA

- Mar. 2023 **Gordon Research Conference (GRC) in Polar Marine Science: Integrating Ocean Physics and Biogeochemistry to Assess Polar Ecosystem Sensitivity to Rapid Change.** Ventura, CA, USA
How Climate Genomics can Help Predict Distribution Shifts in Southern Ocean Species Exposed to Environmental Change.
Caccavo JA
- Dec. 2022 **Laboratory of Climate and Environmental Sciences (LSCE) seminar series.** Paris, France
Climate genomics of Antarctic toothfish.
Caccavo JA
- Nov. 2022 **COP27** Sharm El-Sheikh, Egypt
Presented as part of the side event, Southern Ocean ecosystems: Need for Augmented Understanding, Research Efforts and Protection.
Caccavo JA
- Aug. 2022 **10th Scientific Committee on Antarctic Research Open Science Conference (SCAR-OSC) workshop: Participating in Large-scale International Scientific Assessments.** online
An introduction to the IPCC report process.
Caccavo JA
- June 2022 **Berlin Center for Genomics in Biodiversity Research (BeGenDiv) seminar series.** online
Climate genomics of Antarctic toothfish.
Caccavo JA
- Nov. 2021 **COP26** Glasgow, UK
Southern Ocean sustainability and ecosystem services.
Presented as part of the side event, Antarctic marine ecosystems need local and global protection.
Caccavo JA
- Sep. 2021 **Institute Pierre-Simon Laplace (IPSL), Marine biogeochemistry, ecosystems and resources theme seminar series.** Paris, France
Climate genomics – the next generation of quantifying and predicting climate change impacts on species and ecosystems.
Caccavo JA
- Jan. 2021 **Institute of Systematics, Evolution and Biodiversity (ISYEB) seminar series.** online
Conservation genomics in Antarctic fish.
Caccavo JA
- Jan. 2021 **BOREA Program of Ecosystem Observations of Antarctica Fisheries (POEPA).** online
Population dynamics of Antarctic toothfish: management implications.
Caccavo JA
- Dec. 2019 **COP25** Madrid, Spain
The APECS-led IPCC group review: a launching pad for Early Career Researchers into peer review.
Gremion G, **Caccavo JA**
- Dec. 2018 **COP24** Katowice, Poland
The benefits to climate science of including Early Career Scientists as reviewers.
Casado M, **Caccavo JA**, Gremion G

CONFERENCE ORGANIZATION

- Sep. 2024 – July 2025 **Organizing Committee**
Integrated Science to Inform Antarctic and Southern Ocean Conservation (Ant-ICON) workshop
Organize venue, develop themes and sessions, review abstracts, chair sessions, synthesize outputs
- July 2024 – April 2025 **Steering Committee**
3rd Kerguelen Plateau Symposium
Define symposium format, develop themes, review abstracts
- May 2022 – Aug. 2023 **Organizing Committee**
Inaugural Southern Ocean Observing System (SOOS) Symposium
Define symposium format, develop themes, sessions, solicit conveners, assist in workshop design
- Nov. 2021 – Aug. 2022 **International Science Organizing Committee**
10th Scientific Committee on Antarctic Research Open Science Conference (SCAR-OSC)
Oversee the scientific aspects of the meeting and advise on event format and structure

SESSIONS CONVENED

- Aug. 2024 **11th Scientific Committee on Antarctic Research Open Science Conference (SCAR-OSC)**
Pucón, Chile.
Co-convener with [CM Brooks](#), [CD Jones](#), and [M Novillo](#) of [Session 21: Fish ecosystem dynamics and biodiversity thresholds in a changing Southern Ocean: management implications](#)
- Aug. 2024 **11th Scientific Committee on Antarctic Research Open Science Conference (SCAR-OSC)**
Pucón, Chile.
Co-convener with [D Liggett](#) of [Session 44: Cutting-edge Antarctic research](#)
- Aug. 2022 **10th Scientific Committee on Antarctic Research Open Science Conference (SCAR-OSC)**
conference moved online.
Co-convener with [D Liggett](#), [A Howkins](#), [S Chignell](#), [N Gilbert](#), [N Gardiner](#) and [HC Shin](#) of [Session 50: Rethinking Antarctic environments and conservation](#)
- Aug. 2022 **10th Scientific Committee on Antarctic Research Open Science Conference (SCAR-OSC)**
conference moved online.
Co-convener with [CM Brooks](#) and [CD Jones](#) of [Session 19: Management implications of Southern Ocean ecosystem dynamics and biodiversity thresholds](#)
- Aug. 2020 **9th Scientific Committee on Antarctic Research Open Science Conference (SCAR-OSC)**
conference moved online.
Co-convener with [M Belchier](#) of [Session 22: The Role of Fish in the Southern Ocean](#)

ABSTRACTS

- Aug. 2024 **Caccavo JA**, d'Ovidio F, Gehlen M. [What environmental factors are driving genomic adaptation in Antarctic toothfish?](#) 11th Scientific Committee on Antarctic Research Open Science Conference ([SCAR-OSC](#)), Pucón, Chile.
- Aug. 2024 **Caccavo JA**, Arantes LS, Mazzoni CJ. [Population genomics of Antarctic toothfish: exceptions to panmixia.](#) 11th [SCAR-OSC](#), Pucón, Chile.
- Aug. 2024 **Caccavo JA**, d'Ovidio F, Gehlen M. [How Climate Genomics can help predict distribution shifts in Southern Ocean species exposed to environmental change.](#) 11th [SCAR-OSC](#), Pucón, Chile.
- June 2024 **Caccavo JA**, d'Ovidio F, Gehlen M. [Climate genomics to support fisheries management in the Southern Ocean.](#) [World Biodiversity Forum](#), Davos, Switzerland.
- Sep. 2022 **Caccavo JA**, Frémont P, Jaillon O, d'Ovidio F, Gehlen M. [Climate genomics of Antarctic toothfish \(ClimGenAT\).](#) British Ecological Society ([BES](#)) [Climate Change Genomics: Vulnerability, Adaptations and Applications](#) online workshop.
- Aug. 2022 **Caccavo JA**, Frémont P, Jaillon O, d'Ovidio F, Gehlen M. [Climate genomics of Antarctic toothfish \(ClimGenAT\).](#) 10th [SCAR-OSC](#), conference moved online.
- Aug. 2022 **Caccavo JA**, Arantes LS, Mazzoni CJ. [A genomics perspective on Antarctic toothfish circumpolar population structure.](#) 10th [SCAR-OSC](#), conference moved online.
- Aug. 2022 **Caccavo JA**, Henley S, Johnston N, Grant S, Constable C, Höfer J, Melbourne-Thomas J, Baldry K, Bestley S, Braiser M, Cavanagh R, Costa D, Figuerola B, Griffiths H, Gutt J, Hallowed A, Hancock A, Hofmann E, Hollowed A, Kauko H, McCormack S, Morley S, Muelbert M, Murphy E, Pinkerton M, Piñones A, Press A, Roberts L, Ropert-Coudert Y, Sergi S, Schloss I, Schofield O, Solomonsz J, Swadling K, Van de Putte A, Weldrick C. [Marine Ecosystem Assessment for the Southern Ocean \(MEASO\): outcomes, updates, and next steps.](#) 10th [SCAR-OSC](#), conference moved online.
- May 2022 **Caccavo JA**, Frémont P, Jaillon O, d'Ovidio F, Gehlen M. Climate Genomics of Antarctic toothfish, presented at the [BES Climate Science for Ecological Forecasting](#) symposium, London, UK.
- Aug. 2020 **Caccavo JA**, Arantes LS, Mazzoni C. [A genome reduced-representation approach \(3RAD\) to understanding the population structure of the Antarctic toothfish in the Weddell Sea and beyond.](#) 9th [SCAR-OSC](#), conference moved online.
- Aug. 2020 **Caccavo JA**, Ashford J. [Midway upon the journey of life: the importance of local and regional hydrography on population connectivity in Antarctic fish.](#) 9th [SCAR-OSC](#), conference moved online.
- Aug. 2020 **Caccavo JA**, Ropert-Coudert Y, Poupart T, Raclot T, Angelier F. [Anthropogenic activities are associated with shorter telomeres in chicks of Adélie penguin.](#) 9th [SCAR-OSC](#), conference moved online.
- Aug. 2020 **Caccavo JA**, Christiansen H, Ghigliotti L, Treblico R, Brooks CM, Desvignes T, Dorman T, Jones CD, Koubbi P, Saunders R, Strobel A, Vacchi M, Van de Putte A, Walters A, Woods B, Xavier J. [Marine Ecosystem Assessment for the Southern Ocean \(MEASO\): Productivity and change in fish and squid in the Southern Ocean.](#) 9th [SCAR-OSC](#), conference moved online.

- May 2020 **Caccavo JA**, Mazzoni CJ, Brey T. A multidisciplinary approach to understanding the population structure of an exploited Southern Ocean top predator, the Antarctic toothfish, to improve sustainability and marine spatial planning. European Geosciences Union ([EGU](#)) General Assembly, conference moved online.
- Oral presentation
- June 2019 **Caccavo JA**, Ashford JR, Ryan S, Papetti C, Schröder M, Zane L. An integrated approach to test spatially-based population structure and life history connectivity of Antarctic silverfish (*Pleuraagramma antarctica*) in the southern Weddell Sea. Integrated Marine Biosphere Research Open Science Conference ([IMBeR OSC](#)), Brest, France.
- Poster
- June 2018 **Caccavo JA**, Boutoute M, Kohlbach D, Flores H, Mayzaud P. Lipid dynamics and trophic patterns of Antarctic silverfish in the Weddell Sea. 8th [SCAR-OSC](#), Davos, Switzerland.
- Poster
- June 2018 **Caccavo JA**, Raclot T, Poupart T, Ropert-Coudert Y, Angelier F. Adélie penguin telomeres: eco-indicators of environmental stress? 8th [SCAR-OSC](#), Davos, Switzerland.
- Poster
- June 2018 **Caccavo JA**, Thornton AE, Holloway J, Bradley A, Hindshaw R, Tummon F, Fugmann G. Early Career engagement bridges polar boundaries: a case study from Horizon 2020. 8th [SCAR-OSC](#), Davos, Switzerland.
- Poster
- July 2017 **Caccavo JA**, Ashford J, Papetti C, Zane L. Testing spatially-based population structure and life history connectivity of *Pleuraagramma antarctica* in the Southeast Weddell Sea. 12th [SCAR Biology](#) Symposium, Leuven, Belgium.
- Oral presentation
- June 2017 **Caccavo JA**, Ashford J, Papetti C, Zane L. Population connectivity and ecological dynamics of *Pleuraagramma antarctica*. 13th International Student Meeting: Ecology and Behaviour, Chizé, France.
- Oral presentation
- Aug. 2016 **Caccavo JA**, Papetti C, Zane L. Population genetic structure of *Pleuraagramma antarctica* across the Weddell Sea. 7th [SCAR-OSC](#), Kuala Lumpur, Malaysia.
- Oral presentation
- Aug. 2016 Brooks C, **Caccavo JA**, Goetz K, Zane L, Ashford JA, La Mesa M. *Pleuraagramma antarcticum* distribution in the Ross Sea: patterns of early life history and evidence of new nursery grounds. 7th [SCAR-OSC](#), Kuala Lumpur, Malaysia.
- Oral presentation
- July 2016 **Caccavo JA**, Papetti C, Zane L. Population structure of *Pleuraagramma antarctica* in the Ross Sea. Commission for the Conservation of Antarctic Marine Living Resources ([CCAMLR](#)) Working Group on Ecosystem Monitoring and Management (WG-EMM) 2016, Symposium on the Ross Sea Ecosystem, Bologna, Italy.
- Oral presentation

FIELD EXPERIENCE

- Jan. 2014 **The North Sea and Skagerrak** 4 weeks aboard the Hakon Møsbj research trawl survey vessel In collaboration with **The Institute of Marine Research** Bergen 5005, Norway
Collecting sea pens for genetic analysis and assisting in shrimp, shark and bony fish sampling

STUDENTS SUPERVISED

- Mar. 2020 – Oct. 2020 **Teresa Britz**
Master's student in Analytical Chemistry at the University of Applied Sciences Bonn-Rhein-Sieg **Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research** Bremerhaven, Germany
Optimizing the analysis of trace elements in Antarctic toothfish otolith microstructures
- Nov. 2017 **Giulia Trauzzi**
Master's student in Marine Biology at Marche Polytechnic University **University of Padua** Padua, Italy
Using DNA barcoding to distinguish between species of smooth-hound sharks

TEACHING EXPERIENCE

- Sep. 2024 **M2 Course in Climate Change Ecology at ENS Paris**
Lecture on Climate genomics - interdisciplinary research to confront climate change
- Jun. 2021 **Master's Course in Bioinformatics at the Free University of Berlin**
Core Module: Biodiversity and Evolution, [Lecture on Population Genomics](#)

REVIEWER EXPERIENCE

[Communications Biology](#) [Marine Life Science & Technology](#)
[Diversity](#) [Marine Policy](#)
[Frontiers in Marine Science](#) [Nature Climate Change](#)
[Journal of Fish Biology](#) [Polar Biology](#)
[Journal of the Marine Biological Association of the United Kingdom](#) [Reviews in Fish Biology and Fisheries](#)
[ICES Journal of Marine Science](#) [Scientific Reports](#)
[Limnology and Oceanography](#)

MEDIA ENGAGEMENT

July 2024 [South Pole podcast](#)
A podcast that explores all things Antarctica

Oct. 2023 Featured in documentary short by [John Weller](#): [Pressure to adapt](#)

Sep. 2023 [IPSL News podcast](#)
News and interviews on the latest research at the interface between climate and society

Jan. 2022 – Dec. 2022 [Skype a Scientist](#)
A database connecting teachers and scientists – interactive video sessions with students ages 6 - 18

Jan. 2021 – Dec. 2022 [American Fisheries Society \(AFS\) Climate Ambassadors Program](#)
A specialized communication skills training program that focuses on climate change

Mar. 2022 [The Fisheries Podcast](#)
Sharing stories of the amazing people and projects that make up the fisheries science profession

Oct. 2020 [Polar Times podcast](#)
Science and stories from literally the coolest places on the planet!

GRANTS AND AWARDS

Jul. 2025 Postdoctoral fellowship (valued at approximately €60,000) from the Laboratory of Oceanography and Climate ([LOCEAN](#)).

Jul. 2025 [Shackleton Scholarship](#) funding for [ovulotag](#) field deployment €4,600.

Mar. 2025 [CARNOT MERS](#) funding for [ovulotag](#) implementation €16,400.

May 2022 [MSCA Seal of Excellence](#) for postdoctoral fellowship proposal ClimGenAT. Score 86.00%.

Apr. 2022 Postdoctoral fellowship (valued at approximately €177,500) from the Institute Pierre-Simon Laplace ([IPSL](#)) [Science Theme "Marine biogeochemistry, ecology, and resources"](#).

Nov. 2019 [CCAMLR Scientific Scholarship](#) of \$25,000 to cover expenses for participation in CCAMLR related events and spearhead CCAMLR-relevant research projects.

Mar. 2019 [Humboldt Research Fellowship](#) for Postdoctoral Researchers (valued at approximately €150,000) from the Alexander von Humboldt Foundation.

Nov. 2018 Mini-grant of \$910 from [SCAR AnTERA](#) to complete research project at the Laboratoire d'Océanographie de Villefranche-sur-Mer.

May 2018 Travel Funding of \$750 from [SCAR AntEco](#) to attend POLAR2018 conference.

Oct. 2016 [Erasmus+ Fellowship](#) of €1,440 for research at the Centre d'Etudes Biologiques de Chizé.

Aug. 2016 [SCAR Fellowship](#) of \$13,000 for research at the Laboratoire d'Océanographie de Villefranche-sur-Mer.

May 2016 [Antarctic Science Bursary](#) of £4,305 for research at Old Dominion University, Center for Quantitative Fisheries Ecology and Woods Hole Oceanographic Institution.

THESES

DOCTORAL THESIS Population structure, connectivity and ecological dynamics of the Antarctic silverfish, *Pleuragramma antarctica*. Accepted June 2018.

Grade: **Cum laude**

Research conducted at The University of Padua, Old Dominion University, Virginia and the Laboratoire d'Océanographie de Villefranche-sur-Mer

MASTER THESIS Canary in the coalmine: genetic structure and ecological significance of the tall sea pen *Funiculina quadrangularis* in the North Sea and Skagerrak. Accepted Sep. 2014.

Grade: **Distinction**

Research conducted at The Institute of Zoology, London and The Institute of Marine Research, Bergen

UNDERGRADUATE SENIOR THESIS Stress Hormone Modulation of Synaptic Plasticity in the Amygdala. Accepted May 2009.

Grade: **Magna cum laude**

Research conducted at The Rockefeller University, New York

LANGUAGES

Mother tongue English

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C1	C1	C1	C1	C1
Italian	C1	C1	C1	C1	C1
Spanish	B2	B2	B2	B2	B2
German	A2	A2	A2	A2	A2
Japanese	A1	A1	A1	A1	A1

Levels: A1/2: Basic - B1/2: Independent - C1/2 Proficient | Common European Framework of Reference for Languages

OTHER EXPERIENCE

- Jan. 2015 – Mar. 2016 **English Instructor**
British Institute Padua 35129, Italy
- Feb. 2014 – June 2014 **Yoga Instructor**
reCentre-Health London SW17 7AN, UK
- Oct. 2013 – Dec. 2013 **Bartender**
Lost Society London SW8 3JF, UK
- May 2012 – July 2013 **Yoga Instructor**
Yo Yoga! New York, NY 10022, USA
- Nov. 2011 – July 2013 **Bartender and Ordering Manager**
Trash Bar Brooklyn, NY 11211, USA
- Aug. 2007 – July 2013 **Adoption representative, photographer**
KittyKind a non-profit, cat rescue and adoption group, New York, NY 10003, USA
- Oct. 2011 – July 2013 **Yoga Instructor**
David Barton Gym New York, NY 10028, USA

QUALIFICATIONS AND
CERTIFICATIONS

- April 2024 **25 Hour Yoga Alliance Registered Prenatal Yoga Certification**
The Space Paris – Paris, France
- May 2013 **500 Hour Yoga Alliance Registered Teaching Certification**
Aarsha Yoga Vidya Peetham – Kerala, India
- July 2012 **PADI Advanced Open Water Dive Certification**
Scuba Fun Dive Center – Sint Maarten, Netherlands Antilles
- Oct. 2011 **Certificate of Completion of beverage mixing and service**
American Bartenders School – New York, NY, USA
- Aug. 2011 **200 Hour Yoga Alliance Registered Teaching Certification**
Yoga to the People – New York, NY, USA