



# JILDA ALICIA CACCAVO

[www.jildacaccavo.com](http://www.jildacaccavo.com)

[ergo@jildacaccavo.com](mailto:ergo@jildacaccavo.com)

ORCID: [orcid.org/0000-0002-8172-7855](https://orcid.org/0000-0002-8172-7855)

Gender F | Date of birth January 6<sup>th</sup>, 1986 | Nationality USA

## EDUCATION

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

## RESEARCH EXPERIENCE

- May 2019 – Present **Research Associate**  
**Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research** Bremerhaven 27570  
**Berlin Center for Genomics in Biodiversity Research** Berlin 14195, Germany  
*Assessing population structure of Antarctic toothfish to inform management and the establishment of a Marine Protected Area in the Weddell Sea*
- 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*

## SERVICE EXPERIENCE

- June 2021 – Present **Steering Committee**  
Scientific Committee on Antarctic Research (**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
- July 2020 – Present **Scientific Steering Committee**  
**Southern Ocean Observing System (SOOS)** facilitating the collection and delivery of essential observations on dynamics and change of Southern Ocean systems to international stakeholders
- Oct. 2019 – Present **ex-officio, Executive Committee**  
**Association for Early Career Scientists (APECS)** an international and interdisciplinary organization of early career scientists promoting polar research, career development and scientific outreach
- April 2019 – Present **Steering Committee**  
**Marine Ecosystem Assessment of 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. 2018 – Sep. 2019 **President, Executive Committee**  
**Association for Early Career Scientists (APECS)**
- Oct. 2017 – Sep. 2018 **Vice-President, Executive Committee**  
**Association for Early Career Scientists (APECS)**

## FIELD EXPERIENCE

Jan. 2014

**The North Sea and Skagerrak** aboard the Hakon Møsby 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*

## PUBLICATIONS

Articles

**Caccavo JA**, Christiansen H, Constable AJ, Ghigliotti L, Treblico 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, Hellesey 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>

Gwenaëlle 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>

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/foq.12251>

Schiavon L, Milan M, Lucassen M, **Caccavo JA**, Paterno M, Boscarì 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>

**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. [https://docs.wixstatic.com/uqd/456279\\_9cdf5aa56ed74d6e9b2e8d75ec3fbb10.pdf](https://docs.wixstatic.com/uqd/456279_9cdf5aa56ed74d6e9b2e8d75ec3fbb10.pdf)

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>

- Abstracts** **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, presented at the 36th Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([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, presented at the 36th Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([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, presented at the 36th Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([SCAR-OSC](#)), conference moved online.
- Aug. 2020 Caccavo JA**, Christiansen H, Ghigliotti L, Treblico R, Brooks CM, Desvignes T, Dornan 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, presented at the 36th Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([SCAR-OSC](#)), conference moved online.
- Aug. 2020** Constable C, Bestley S, Braiser M, **Caccavo JA**, Cavanagh R, Costa D, Grant S, Griffiths H, Gutt J, Henley S, Höfer J, Hofmann E, Hollowed A, Johnston N, McCormack S, Melbourne-Thomas J, Morley S, Muelbert M, Murphy E, Newman L, Pinkerton M, Piñones A, Ropert-Coudert Y, Schloss I, Schofield O, Treblico R, Van de Putte A, Waller C, Weldrick C. Marine Ecosystem Assessment for the Southern Ocean (MEASO): process, outcomes and strategy for delivery by ICED of the first assessment., presented at the 36th Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([SCAR-OSC](#)), conference moved online.
- Aug. 2020** Cardenas C, Braiser M, McCormack S, Hancock A, **Caccavo JA**, MEASO ECR and APECS community. Opportunities for Early Career Researchers in Antarctic Science, the perspectives and priorities from the Association of Polar Early Career Scientists and the Marine Ecosystem Assessment for the Southern Ocean, presented at the 36th Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([SCAR-OSC](#)), conference moved online.
- Aug. 2020** Di Blasi D, **Caccavo JA**, Seyboth E, Rombola EF, Machado AL, Santos M, Reid K. CCAMLR Scientific Scholarship Scheme: an important tool to involve early career researchers in CCAMLR processes and to build capacity, presented at the 36th Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([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, presented at European Geosciences Union ([EGU](#)) General Assembly, conference moved online.
- Dec. 2019** Gremion G, **Caccavo JA**. The APECS-led IPCC group review: a launching pad for Early Career Researchers into peer review, presented at [COP25](#), Madrid, Spain.
- 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 (*Pleuragramma antarctica*) in the southern Weddell Sea, presented at the Integrated Marine Biosphere Research Open Science Conference ([IMBeR OSC](#)), Brest, France.
- Dec. 2018** Casado M, **Caccavo JA**, Gremion G. The benefits to climate science of including Early Career Scientists as reviewers, presented at [COP24](#), Katowice, Poland.
- June 2018 Caccavo JA**, Boutoute M, Kohlbach D, Flores H, Mayzaud P. Lipid dynamics and trophic patterns of Antarctic silverfish in the Weddell Sea, presented at that 35<sup>th</sup> Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([SCAR-OSC](#)), Davos, Switzerland.
- June 2018 Caccavo JA**, Raclot T, Poupart T, Ropert-Coudert Y, Angelier F. Adélie penguin telomeres: eco-indicators of environmental stress? presented at that 35<sup>th</sup> Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([SCAR-OSC](#)), Davos, Switzerland.
- 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, presented at that 35<sup>th</sup> Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([SCAR-OSC](#)), Davos, Switzerland.
- July 2017 Caccavo JA**, Ashford J, Papetti C, Zane L. Testing spatially-based population structure and life history connectivity of *Pleuragramma antarctica* in the Southeast Weddell Sea, presented at the 12<sup>th</sup> Scientific Committee on Antarctic Research ([SCAR](#)) Biology Symposium, Leuven, Belgium.

June 2017 **Caccavo JA**, Ashford J, Papetti C, Zane L. Population connectivity and ecological dynamics of *Pleuragramma antarctica*, presented at the 13<sup>th</sup> International Student Meeting: Ecology and Behaviour, Chizé, France.

Aug. 2016 **Caccavo JA**, Papetti C, Zane L. Population genetic structure of *Pleuragramma antarctica* across the Weddell Sea, presented at the 34<sup>th</sup> Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([SCAR-OSC](#)), Kuala Lumpur, Malaysia.

Aug. 2016 Brooks C, **Caccavo JA**, Goetz K, Zane L, Ashford JA, La Mesa, M. *Pleuragramma antarcticum* distribution in the Ross Sea: patterns of early life history and evidence of new nursery grounds presented jointly with Brooks, C. at the 34<sup>th</sup> Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference ([SCAR-OSC](#)), Kuala Lumpur, Malaysia.

July 2016 **Caccavo JA**, Papetti C, Zane L. Population structure of *Pleuragramma antarctica* in the Ross Sea, presented at the 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.

#### INVITED TALKS

- Sep. 2021 **Institute Pierre-Simon Laplace (IPSL), Marine biogeochemistry, ecosystems and resources theme seminar series.**  
Climate genomics – the next generation of quantifying and predicting climate change impacts on species and ecosystems.
- Jan. 2021 **The French National Museum of Natural History (MNHN) Institute of Systematics, Evolution and Biodiversity (ISYEB, UMR 7205) seminar series.**  
[Conservation genomics in Antarctic fish.](#)
- Jan. 2021 **MNHN Laboratory of Biology of Aquatic Organisms and Ecosystems (BOREA) Program of Ecosystem Observations of Antarctica Fisheries (POEPA)**  
Population dynamics of Antarctic toothfish: management implications.

#### SESSIONS CONVENED

- Aug. 2020 **36th Biennial Meetings and Scientific Committee on Antarctic Research Open Science Conference (SCAR-OSC)** conference moved online.  
Co-convenor with Mark Belchier of [Session 22: The Role of Fish in the Southern Ocean](#)

#### STUDENTS SUPERVISED

- Mar. 2020 – Oct. 2020 **Teresa Britz**  
Master's student in Analytical Chemistry and Quality Assurance at the University of Applied Sciences Bonn-Rhein-Sieg  
**Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research** Bremerhaven 27570  
*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 35121  
*Using DNA barcoding to distinguish between species of smooth-hound sharks*

#### TEACHING EXPERIENCE

- 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](#)  
[Frontiers in Marine Science](#)  
[Journal of the Marine Biological Association of the United Kingdom](#)  
[Limnology and Oceanography](#)  
[Marine Policy](#)  
[Nature Climate Change](#)

## MEDIA ENGAGEMENT

Jan. 2021 – Present

### **American Fisheries Society (AFS) Climate Ambassadors Program**

*A specialized communication skills training program that focuses on climate change*

Oct. 2020

### **Polar Times podcast**

*Science and stories from literally the coolest places on the planet!*

## GRANTS AND AWARDS

**Oct. 2021** Postdoctoral fellowship (valued at approximately \$100000) from the Institut Pierre-Simon Laplace (IPSL) [Science Theme “Marine biogeochemistry, ecology, and resources”](#).

**Nov. 2019** [CCAMLR Scientific Scholarship](#) of \$25000 to cover expenses for participation in CCAMLR related events.

**Mar. 2019** [Humboldt Research Fellowship](#) for Postdoctoral Researchers (valued at approximately €85000) 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 €1440 for pursuit of research at the Centre d’Etudes Biologiques de Chizé.

**Aug. 2016** [SCAR Fellowship](#) of \$13000 for pursuit of research at the Laboratoire d’Océanographie de Villefranche-sur-Mer.

**May 2016** [Antarctic Science Bursary](#) of £4305 for pursuit of 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	
Italian	C1	C1	C1	C1	C1
	External coursework and independent study				
French	B2	B2	B2	B2	B2
	External coursework and independent study				
German	B1	B1	B1	B1	B1
	External coursework and independent study				
Japanese	A2	A2	A2	A2	A2
	External coursework and independent study				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
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

---

- 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