

CASSANDRA BROOKS
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Environmental Studies Program
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EDUCATION

2017 Ph.D., Environment and Resources, Stanford University
2009 Graduate Certificate, Science Communication Program Univ. of California, Santa Cruz
2008 M.S., Marine Science, Moss Landing Marine Laboratories, California State University
2001 B.S., Biology, Bates College

PROFESSIONAL EXPERIENCE

Academic

2017-present Assistant Professor, University of Colorado, Boulder, Environmental Studies.
2017-present Faculty Affiliate, Center for Science and Technology Policy Research, CU Boulder

Policy & Outreach

2013-2018 National Geographic. Washington, DC. Guest blogger for *Ocean Views* news blog.
2014-17 Pew Charitable Trusts. Washington, DC. Science advisor, Southern Ocean Sanctuaries Campaign.
2015-16 Conservation International. Washington, DC. Consultant, Oceans campaign.
2012 Antarctic and Southern Ocean Coalition. Washington, DC. Contract writer, marine protected area policy reports.
2010-12 The Last Ocean. News Director (Boulder, CO) and USA Coordinator (Christchurch, New Zealand) on international outreach effort focused on protecting the Ross Sea, Antarctica.
2009-12 Society for the Advancement of Chicanos and Native Americans in Science. Founder & video producer for SACNAS Science Video Podcast series; Writer for biography project & *SACNAS News*.
2011 Sanctuary: The Last Stand for Sharks, in partnership with the Pew Charitable Trusts. Development & execution of high impact media.
2011 Guardians of Raja Ampat, in partnership with Conservation International. Development of high impact conservation media in remote communities of Raja Ampat, Indonesia.
2009-11 Point Reyes National Seashore, National Park Service, Point Reyes, CA, Science communication specialist, producing science podcasts, videos & slideshows.
2010 Seattle Times. Seattle, WA. Kaiser Media Health Fellow Intern, Reported on health, science & environment with an emphasis on minority and diverse communities.
2007-10 Winds of Change. Contributing writer and editor. Magazine of the American Indian Science and Engineering Society.
2009 Stanford University. Stanford, CA. Science & environmental writing intern for Stanford University press office & Stanford University Woods Institute for the Environment.
2008 Santa Cruz Sentinel. Santa Cruz, CA. 2008. Science writing intern.
2008 San Francisco Exploratorium, San Francisco, CA. Contributor to the International Polar Year National Science Foundation "Ice Stories" outreach effort.
2002-03 Summit Achievement. Stowe, ME. Wilderness Therapy Guide.
2002-03 Student Conservation Association. Crew Leader, student trail crews in National Parks.
2001 Sierra Club & NH Public Interest Research Group, Concord, NH. Field Manager.
2001 Hurricane Island Outward Bound Southern Programs. FL, Wilderness Therapy Guide.

1998 New England Aquarium. Boston, MA. Environmental Education Intern.

Scientific Field Research

2013 Stanford University. Stanford, CA. Research assistant on National Science Foundation TRACERS cruise: *Tracing the fate of Algal Carbon Export in the Ross Sea, Antarctica*.

2006-11 Antarctic Marine Living Resources, NOAA. La Jolla, CA. Seasonal research technician on Antarctic zooplankton and finfish survey cruises.

2008 Moss Landing Marine Laboratories. Moss Landing, CA. Research technician, California Collaborative Fisheries Research Program, tagging fish in collaboration with CA fishers.

2004-08 Moss Landing Marine Laboratories. Moss Landing, CA. Graduate research assistant on NSF grant: *Radiometric Age Validation of the Patagonian and Antarctic toothfishes*.

2002-03 National Marine Fisheries Service. Gloucester, MA. Fisheries Observer.

2000 School for Field Studies. Bamfield, British Columbia. Environmental field & coursework.

2000 Virginia Institute of Marine Science. Gloucester Pt., VA. Research Experience for Undergraduates.

1999 Mount Desert Island Biological Lab. Salisbury Cove, ME. Research Experience for Undergraduates.

1998 Shoals Marine Laboratory. Appledore Island, ME. Summer field & coursework.

AWARDS, GRANTS & FELLOWSHIPS

2020-2021 Pew Charitable Trusts. *Managing the Southern Ocean under environmental change: Marine protected areas and sustainable fisheries management* (PI: \$250,000).

2020-2025 National Science Foundation, *Collaborative Research: Climate sensitivity of Alaskan rivers, fish and communities as told through storylines* (Co-principal investigator; \$2,200,000).

2018-2019 Pew Charitable Trusts, *Conservation Policies Towards Developing, Adopting, and Implementing Marine Protected Areas in Antarctica's Southern Ocean* (PI: \$250,000).

2012-17 Stanford University, EIPER, William & Eva Price Dissertation Fellowship Fund

2016 Scientific Committee for Antarctic Research. First Place Award, Oral Presentation

2016 Stanford University, EIPER, Summer Research Grant

2016 Stanford University, EIPER, Conference Grant

2015-16 Switzer Foundation, Environmental Leadership Fellowship Award

2014 Stanford University, EIPER Summer Research Grant

2014 Stanford University, School of Earth Sciences, McGee Grant

2013 Stanford University, EIPER Summer Research Grant

2013 Stanford University, School of Earth Sciences, McGee Grant

2013 National Science Foundation, Antarctic Service Medal

2010 Kaiser Family Foundation, Kaiser Media Health Fellowship

2009 Institutes for Journalism and Natural Resources, Environmental Journalism Fellowship

2008 Scientific Committee on Antarctic Research, Conference Travel Fellowship

2008 Moss Landing Marine Laboratories, Packard, Grant, Conference Travel Fellowship

2007 American Fisheries Society, First Place Award, Student Oral Presentation.

2007 American Fisheries Society, First Place Award, Student Poster Presentation

2007 Professional Association of Diving Instructors, Project AWARE Grant

2006-07 Environmental Entrepreneurship Program, NOAA Minority Student Graduate Fellowship

PUBLICATIONS

Peer-Reviewed Articles

1. **Brooks, C.**, S. Chown, L. Douglass, B. Raymond, J. Shaw, Z. Sylvester & C. Torrens. In Review. Progress towards a representative network of Southern Ocean protected areas. *PLOS One*.
2. Berkowitz, H, L. Crowder & **C. Brooks**. In Review. Organizational perspectives on oceans governance: Meta-organizations and cross-sectoral collective action. *Marine Policy*.
3. Nocito, E., **C. Brooks** & A. Strong. 2020. Gazing at the Crystal Ball: Predicting the Future of Marine Protected Areas through Voluntary Commitments. *Frontiers in Marine Science*.
4. Sylvester, Z. & **C. Brooks**. 2019. Protecting Antarctica through co-production of usable science: Lessons from the CCAMLR marine protected area process. *Marine Policy*. 111: 103720.
5. Chown, S. & **C. Brooks**. 2019. The State and future of Antarctic environments in a global context. *Annual Reviews in Environment and Resources*.
6. **Brooks, C.**, G. Epstein & N. Ban. 2019. Managing marine protected areas in remote areas: The subantarctic Heard and McDonald Islands. *Frontiers in Marine Science*.
7. **Brooks, C.**, L. Crowder, H. Österblom, A. Strong. 2019. Reaching consensus for conserving the global commons: The case of the Ross Sea, Antarctica. *Conservation Letters*, e12676.
8. Kennicutt, M., D. Bromwich, D. Liggett, B. Njastad, L. Peck, S. Rintoul, C. Ritz, M. Siegert, A. Aitken, **C. Brooks**, J. Cassano, S. Chaturvedi, D. Chen, K. Dodds, N. Golledge, C. Le Bohec, M. Leppe, A. Murray, P.C. Nath, M. raphael, M. Rogan-Finnemore, D. Schroeer, L. Talley, T. Travouillon, D. Vaughan, A. Weatherwax & S. Chown. 2019. Sustained Antarctic research – a 21st century imperative. *One Earth*, 1(1): 95-113.
9. Benson, A., **C. Brooks**, G. Canonico, J.E. Duffy, F.E. Muller-Karger, H.M. Sosik, P. Miloslavich & E.Klein. 2018. Integrated observations and informatics improve understanding of changing marine ecosystems. *Frontiers in Marine Science*. Doi: 0.3389/fmars.2018.00428
10. **Brooks, C.**, D. Ainley, P. Abrams, P. Dayton, R. Hofman, J. Jacquet & D. Siniff. 2018. Antarctic fisheries: factor climate change into their management. *Nature*, 558: 177-180.
11. Liu, N. & **C. Brooks**. 2018. China's changing position towards marine protected areas in the Southern Ocean: Implications for future Antarctic governance. *Marine Policy*, 94: 189-195.
12. Davies T., G. Epstein, S. Aguilera, **C. Brooks**, M. Cox, L. Evans, S. Maxwell, M. Nenadovic & N. Ban. 2018 Assessing the performance of large marine by evaluating trade-offs in social-ecological system outcomes. *PLoS ONE* 13(4): e0195760.
13. **Brooks, C.** J. Caccavo, J. Ashford, R. Dunbar, K. Goetz, M. La Mesa, L. Zane. Early life history connectivity of Antarctica silverfish (*Pleuragramma antarctica*) in the Ross Sea. 2018. *Fisheries Oceanography*, 27(3): 274-287. DOI: 10.1111/fog.12251
14. Finkbeiner E., N. Bennett, **C. Brooks**, T. Frawley, J. Mason, C. Ng, R. Ourens, K. Seto, S. Swanson, J. Ortega, D. Wingfield & L. Crowder. Reconstructing overfishing: Moving beyond Malthus for comprehensive and equitable solutions. 2017. *Fish & Fisheries*, 18(6): 1180-1191.
15. Ashford, J., M. Dinniman, **C. Brooks**. 2017. Physical-biological interactions in large Antarctic toothfish (*Dissostichus mawsoni*) found over the inner shelf of the Ross Sea. 2017. *Antarctic Science*, 29(6): 487-494.
16. Chown S., **C. Brooks**, A. Terauds, C. Le Bohec, C. van Klaveren-Impagliazzo, J. Whittington, S. Butchart, B. Coetzee, B. Collen, P. Convey, K. Gaston, N. Gilbert, M. Gill, R. Hoft, S. Johnston, M. Kennicutt, H. Kriesell, Y. Le Maho, H. Lynch, M. Palomares, R. Puig-Marco, P. Stoett & M. McGeoch. 2017. Antarctica and the Strategic Plan for Biodiversity 2011-2020. *PLoS Biology* 15(3): e2001656.
17. Ban N., T. Davies, S. Aguilera, **C. Brooks**, M. Cox, G. Epstein, L. Evans, S. Maxwell & M.

- Nenadovic. 2017. Social and ecological effectiveness of large marine protected areas. *Global Environmental Change*. 43: 82-91.
18. **Brooks C.**, L. Crowder, L. Curran, R. Dunbar, D. Ainley, K. Dodds, K. Gjerde & U.R. Sumaila. 2016. Science-based management in the decline in the Southern Ocean. *Science*. 354 (6309): 185-187.
 19. Ainley D., J. Eastman & **C. Brooks**. 2016. Comments on The Antarctic toothfish: biology, ecology and life history in the Ross Sea region.” by Hanchet et al. *Hydrobiologia*. 771 (1): 1-7.
 20. Jacquet J. & **C. Brooks**. 2015. Conservation: It is rational to protect Antarctica. *Nature* 529: 39.
 21. Jacquet J., E. Blood-Patterson, **C. Brooks** & D. Ainley. 2015. ‘Rational use’ in Antarctic waters. *Marine Policy* 63: 28-34.
 22. **Brooks C.**, J. Weller, K. Gjerde, R. Sumaila, J. Ardron, N. Ban, D. Freestone, K. Seto, S. Unger, D. Costa, K. Fisher, L. Crowder, P. Halpin & A. Boustany. 2014. Challenging the ‘Right to Fish’ in a Fast-Changing Ocean. *Stanford Journal of Law, Science & Policy* and *Stanford Environmental Law Journal*. 33(3): 289-324.
 23. Kittinger J., Z. Koehn, E. Le Cornu, N. Ban, M. Gopnik, M. Armsby, **C. Brooks**, M. Carr, J. Cinner, A. Cravens, M. D’lorio, A. Erickson, E. Finkbeiner, M. Foley, R. Fujita, S. Gelcich, K. St. Martin, E. Prahler, D. Reineman, J. Shackeroff, C. White, M. Caldwell & L. Crowder. 2014. Putting People into Ecosystem-Based Management. *Frontiers in Ecology and the Environment*. 12: 448-456.
 24. Ardron J., N. Clark, K. Seto, **C. Brooks**, D. Currie & E. Gilman. 2014. Tracking 24 years of discussions about transparency in international marine governance: Where do we stand? *Stanford Environmental Law Journal*. 33(2): 167-190.
 25. **Brooks C.** 2013. Competing values on the Antarctic high-seas: CCAMLR and the challenge of marine protected areas. *Polar Journal*. 2(3): 277-300.
 26. Ashford J., M. Dinniman, **C. Brooks**, A. Andrews, E. Hofmann, G. Cailliet, C. Jones & N. Ramanna. 2012. Does large-scale circulation structure life history connectivity in Antarctic toothfish? *Canadian Journal of Fisheries and Aquatic Science*. 69(12): 1903-1919.
 27. Andrews A., J. Ashford, **C. Brooks**, K. Krusic-Golub, G. Duhamel, M. Belchier, C. Lundstrom & G. Cailliet. 2011. Lead-radium dating provides a framework for coordinating age estimation of Patagonian toothfish (*Dissostichus eleginoides*) between fishing areas. *Marine and Freshwater Research*. 62: 781-789.
 28. **Brooks C.**, A. Andrews, J. Ashford, G. Cailliet, N. Ramanna, C. Jones & C. Lundstrom. 2011. Age estimation and lead-radium dating of Antarctic toothfish, *Dissostichus mawsoni*. *Polar Biology*. 34(3): 329-338.
 29. Brooks L. & **C. Brooks**. 2010. The Reciprocity Principle and ITEK: Understanding the Significance of indigenous protest on the Presumpscot. *World Futures Journal*. 3(2): 11-28.
 30. Gehnrich S. & **C. Brooks**. 2000. Carbonic anhydrase in gene expression in the gills of the shore crab during acclimation to low salinity. *American Zoologist*. 8(35): 65A.

Books

1. Liu N., **C. Brooks** & T. Qin. 2019. *Governing marine living resources in the polar regions*. Edward Elgar Publishing (Cheltenham, UK).

Book Chapters

1. **Brooks C.** 2019. Geopolitical complexity at the bottom of the world: CCAMLR’s ongoing challenge of adopting marine protected areas. In *Governing marine living resources in the polar regions*. Edward Elgar Publishing (Cheltenham, UK).
2. **Brooks C.** & D. Ainley. 2017. Fishing the bottom of the Earth: The political challenges of ecosystem-based management. Pp 422-438. In *Handbook on Antarctic Politics*. K. Dodds, A. Hemmings & P. Roberts (eds). Edward Elgar Publishing (Cheltenham, UK).

3. Ainley D. & C. Brooks. 2013. Exploiting the Southern Ocean: Rational use or reversion to tragedy of the Commons? Pp 143-154. In *Exploring Antarctic Values*. D. Liggett & A. Hemmings (eds) Gateway Antarctica Special Publication Series (Christchurch, NZ).
4. Ainley D., C. Brooks, J. Eastman & M. Massaro. 2012. Unnatural selection of Antarctic toothfish in the Ross Sea, Antarctica. Pp 53-75. In *Polar Protection of the Three Poles*. F. Heuttemann (ed) Springer (Tokyo, Japan).

Policy Papers

1. Makhado, A.B., A. Lowther, P. Koubbi, I. Ansorge, C. Brooks et al. 2019. Expert Workshop on Pelagic Spatial Planning for the eastern subantarctic region (Domains 4, 5 and 6). SC-CAMLR-38/BG/29.
2. Brooks C., S. Chown, L. Douglass & B. Raymond. 2018. Progress towards a representative network of Southern Ocean protected areas. CCAMLR WS-SM-18/12.
3. Brooks C. 2017. A summary of best practices in research and monitoring of protected areas. CCAMLR WS-RMP-17/05.
4. Ainley D., C. Brooks et al. 2017. Toward developing a research and monitoring plan for the Ross Sea region marine protected area. CCAMLR WS-RMP-17/03
5. Caccavo J., C. Brooks, L. Zane & J. Ashford. 2015. Identification of *Pleuragramma antarctica* larvae in the Ross Sea via mitochondrial DNA. CCAMLR WG-FSA-15/61, Hobart, Australia.
6. Brooks C. & K. Goetz. 2014. *Pleuragramma antarcticum* distribution in the Ross Sea during late austral summer 2013. CCAMLR WG-EMM-14/38, Hobart, Australia.
7. Brooks C. & J. Ashford. 2008. Spatial distribution and age structure of Antarctic toothfish (*Dissostichus mawsoni*) in the Ross Sea, Antarctica. CCAMLR WG-FSA-08/18, Hobart, Australia.

PRESENTATIONS

Invited

- | | |
|------|---|
| 2019 | Antarctic & Southern Ocean Coalition. Antarctic Marine Protected Areas Workshop. Seoul, South Korea (with Bob Zuur) |
| 2019 | Environmental Peacebuilding Association. Online webinar. |
| 2019 | Ocean First Divers, Boulder, CO. |
| 2019 | Conference on World Affairs, Boulder, CO. |
| 2019 | Futures Congress, Santiago & Punta Arenas, Chile. |
| 2018 | Paris Peace Forum, Paris, France. |
| 2018 | Colorado State University, Fort Collins, CO. |
| 2017 | Hopkins Marine Station, Stanford University, Monterey, CA. |
| 2017 | Korean Society of Oceanography. Busan, South Korea. |
| 2017 | Shanghai American Center. Shanghai, China. |
| 2017 | Conservation of Marine Living Resources in the Polar Regions: Science, Politics and Law. Wuhan University, Wuhan China. |
| 2017 | National Center for Atmospheric Research. Boulder, CO. |
| 2016 | New York University, School of Law. High Seas Workshop. New York, NY. |
| 2016 | Antarctic and Southern Ocean Coalition. Antarctic Marine Protected Areas Workshop. Seoul, South Korea. |
| 2016 | Korean Federation of Environmental Movement. Seoul, South Korea. |
| 2016 | Marine Mammal Commission. Bethesda, MD. |
| 2016 | Pew Charitable Trusts. Washington, DC. |
| 2016 | Stanford University. Conservation in Antarctica Seminar. Stanford, CA. |
| 2015 | Antarctica & the Strategic Plan for Biodiversity 2011-2020: the Monaco Assessment Workshop. Monaco. |

- 2015 Point Blue Conservation Science. Petaluma, CA.
- 2014 Scientific Committee on Antarctic Research. Auckland, New Zealand (with D. Ainley).
- 2013 Georgetown University. Antarctic Governance & Natural Resources Seminar. Washington, DC.
- 2013 Fishwise. Santa Cruz, CA.
- 2012 Scientific Committee on Antarctic Research. Association of Polar Early Career Scientists' Panel. Portland, OR.
- 2012 Scientific Committee on Antarctic Research. Climate Change for Polar Institutions' Panel. Portland, OR.
- 2012 NOAA. Ross Sea Marine Protected Area Planning Workshop. La Jolla, CA.
- 2011 The Coastal Society, Stanford University Chapter, Stanford, CA.
- 2011 Point Reyes National Seashore, Pacific Coast Science & Learning Ctr, Point Reyes, CA.
- 2010 Society for the Advancement of Chicanos & Native Americans in Science. Science Writing Panel. Anaheim, CA.
- 2009 Society for the Advancement of Chicanos & Native Americans in Science. Science Writing Panel. Dallas, TX.

Talks & Symposia

- 2019 World Penguin Conference. Dunedin, New Zealand. *The impacts of climate change and fishing on penguin populations in the Western Antarctic Peninsula and Scotia Sea region* (with N. Bransome and A. Cobb).
- 2018 Scientific Committee on Antarctic Research. Davos, Switzerland. *Towards a representative network of protected areas in the Southern Ocean* (oral); *Leadership in conserving the global commons: Protecting the Ross Sea, Antarctica* (poster).
- 2018 TEDx Salon, *The Melting Arctic*, University of Colorado, Boulder. Invited expert.
- 2018 Conference on World Affairs, University of Colorado, Boulder. Moderator.
- 2018 International Arctic Workshop, Boulder, CO. *Changing climate patterns threaten West Antarctic Peninsula penguin populations* (with C. Torrens).
- 2018 American Geophysical Union. Washington, D.C. *Using Essential Biodiversity Variables and Essential Ocean Variables, FAIR Guiding Principles, and the Principles of Action Ecology to Inform Understanding of Changing Marine Ecosystems* (with A. Benson).
- 2017 Scientific Committee on Antarctic Research, Biology Symposium. Leuven, Belgium. *Antarctic resilience through creation of an MPA network: Data needs and plans beyond the Ross Sea designation* (with N. Bransome).
- 2016 Scientific Committee on Antarctic Research. Kuala Lumpur, Malaysia. *Competing values & political complexity in the Southern Ocean: CCAMLR & the challenge of marine protected areas*.
- 2016 Scientific Committee on Antarctic Research. Kuala Lumpur, Malaysia. *Pleuragramma antarcticum distribution in the Ross Sea: patterns of early life history & evidence of a new nursery ground*.
- 2016 Scientific Committee on Antarctic Research. Kuala Lumpur, Malaysia. *Science communication at the bottom of the world: Adventures in the Ross Sea, Antarctica*.
- 2015 American Association for the Advancement of Science. San Jose, CA. Symposium: *Can our ocean commons be sustainably managed? Innovative strategies for the high seas*. Panelists: C. Brooks, L. Crowder, U.R. Sumaila.
- 2015 American Association for the Advancement of Science. San Jose, CA. *Marine protection at the bottom of the world: the challenge of Antarctic high seas*.
- 2012 Scientific Committee on Antarctic Research. Portland, OR. *Exploiting the Southern Ocean: Rational use or tragedy of the commons?*

- 2012 Scientific Committee on Antarctic Research. Portland, OR. *Does large-scale circulation structure life history connectivity in Antarctic toothfish?*
- 2008 Scientific Committee on Antarctic Research. St. Petersburg, Russia. *Age validation and spatial distribution of the Antarctic toothfish, Dissostichus mawsoni: Implications for a deep-sea fishery.*
- 2007 American Fisheries Society. Anchorage, AK. *Age estimation and lead-radium dating of Antarctic toothfish.*
- 2007 American Fisheries Society. Anchorage, AK. *Radiometric dating of Antarctic toothfish* (poster).

INTERNATIONAL DELEGATIONS

- 2019 38th annual meeting of the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and its Scientific Committee. SCAR delegation advisor. Hobart, AU.
- 2018 37th annual meeting of the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and its Scientific Committee. SCAR delegation advisor. Hobart, AU.
- 2017 40th Antarctic Treaty Consultative Meeting (ATCM) and 20th meeting of the Committee on Environmental Protection (CEP). ASOC delegation advisor. Beijing, China.
- 2017 Ross Sea region MPA Research and Monitoring Plan Workshop. IUCN delegation. Rome, Italy.
- 2016 36th annual meeting of the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and its Scientific Committee. ASOC delegation advisor. Hobart, AU.
- 2015 35th annual meeting of the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and its Scientific Committee. ASOC delegation advisor. Hobart, AU.
- 2014 34th annual meeting of the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and its Scientific Committee. ASOC delegation advisor. Hobart, AU.
- 2013 2nd Special Meeting of the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and 1st Special Meeting of its Scientific Committee. ASOC delegation advisor. Bremerhaven, Germany.
- 2013 33rd annual meeting of the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and its Scientific Committee. ASOC delegation advisor. Hobart, AU.
- 2012 32nd annual meeting of the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and its Scientific Committee. ASOC delegation advisor. Hobart, AU.

POLICY REPORTS

1. [Tracking Antarctica: An update on the state of Antarctica and the Southern Ocean](#). 2016. World Wildlife Fund. 55pp. Expert Reviewer.
2. [Antarctic Ocean Legacy: Towards Protection of the Weddell Sea Region](#). 2014. Antarctic Ocean Alliance. 31pp. Expert Reviewer.
3. [Antarctic Ocean Legacy: Protection for the East Antarctic Coastal Region](#). 2012. Antarctic Ocean Alliance. 28pp. Lead Author.
4. [Antarctic Ocean Legacy: A Vision for Circumpolar Protection](#). 2012. Antarctic Ocean Alliance. 60pp. Lead Author.
5. [The Global Threat to Manta and Mobula Rays](#). 2012. Shark Savers and Wild Aid. 21pp. Editor.

AUTHORED POPULAR ARTICLES & MEDIA

Selected media from ~150 self-published articles & multi-media

- [Another grim climate report on oceans – what will it take to address the compounding problems?](#) *The Conversation*. 25 Sept 2019.
- [Cracks in the Future of the Antarctic](#). *National Geographic Blogs*. 5 Nov 2018.

- [The Complexity of Consensus: Protecting the World's Most Remote Ocean](#). *Prometheus* CIRES Science Policy Blog. 31 May 2018.
- [Antarctic Geopolitics and the Ross Sea Marine Protected Area](#). *E-International Relations*. 20 Feb 2018.
- [Why are talks over an Antarctic marine park still deadlocked?](#) *The Conversation*. 2 Nov 2017.
- [International Leadership, a Global Community, and Renewed Hope: Protecting the Ross Sea, Antarctica](#). *National Geographic*, Ocean Views. 2 Nov 2016.
- [David Attenborough's Great Barrier Reef](#). *Atlantic Productions*. Online Media contributor. 2016.
- [A Plea for Adélie \(Penguins\)](#). *National Geographic*, Ocean Views. 4 Nov 2015.
- [Fishing at the bottom of the earth: the Ross Sea Antarctic toothfish](#). *Journal of Antarctic Affairs*. Mar 2015.
- [Forecast: More vessels stuck in Antarctic Ice](#). *National Geographic*, Ocean Views. 10 Jan 2014.
- [Tragedy on the Antarctic high seas](#). *National Geographic*, Ocean Views. 22 July 2013.
- [Video: Two-months breaking ice \(in under five minutes\)](#). *National Geographic*, Ocean Views. 2 May 2013.
- [Op-ed: Monterey Bay Aquarium Seafood Watch program should revisit toothfish designation](#). *Monterey County Herald*. 21 Apr 2013.
- [The Last Ocean](#). Documentary Film, Researcher. 2012.
- [The Most Remote Fishery on Earth](#). *Pacific Ecologist*. Winter 2011.
- [Video: Ocean Acidification: Where will all the seashells go?](#) *Pacific Coast Science and Learning Center*, Point Reyes National Seashore. 12 May 2011.
- Science Interlude: Batty Behavior in [The Darwin Awards: Countdown to Extinction](#). 2010.
- [How much local fish is safe to eat?](#) Cover story, *The Seattle Times*. 26 July 2010.
- [Fish oil supplements may cut breast-cancer risk](#). *The Seattle Times*. 12 July 2010.
- [Resiliency in the face of climate change](#). *SACNAS News*. Winter/Spring 2010.
- [A little fellatio goes a long way](#). *ScienceNOW*. 30 Oct 2009.
- [Two Worlds Working Together: Forming a Link Between Traditional Knowledge and Western Science](#). *SACNAS News*. Summer/Fall 2009.
- [Relocating species in the face of climate change](#). *Stanford Woods Institute for the Environment*. 10 June 2009.
- [Delivering Ecstasy](#). Cover Story, *Monterey County Weekly*. 30 Apr 2009.
- [How sustainable is your seafood?](#) Cover Story, *Santa Cruz Sentinel*. 13 Dec 2008.
- [No Recovery for Atlantic Cod Population](#). *ScienceNOW*. 25 Nov 2008.
- [Return of the Turtle](#). Cover Story, *Santa Cruz Sentinel*. 05 Oct 2008.
- [Traditional Ecological Knowledge & Resource Management: Bridging the Gap](#). *Winds of Change*. Winter 2007.
- [Mother, red in tooth and claw](#). *Orion*. May/June 2007.

TEACHING

Course Teaching

2019, 2020	University of Colorado, Boulder. Boulder, CO. Instructor. ENVS 4800 (Upper division Undergrad). <i>ENVS Capstone: Media with Meaning</i> .
2019, 2020	University of Colorado, Boulder. Boulder, CO. Instructor. ENVS 5702 (Graduate). <i>Policy, Politics and Management: Theory and Practice</i> .
2018, 2019	University of Colorado, Boulder. Boulder, CO. Instructor. ENVS 3030 (Upper division Undergrad). <i>Topics in ENVS Social Sciences: Environmental Governance</i> .
2014	Stanford University. Stanford, CA. Co-Instructor, ENVRINST 220 (Grad/Undergrad): <i>The Social Ocean: Ocean Conservation, Management, Ethics and Policy</i> .

Guest Lectures

- 2019 Indiana University. R678 (Grad) *Emerging Learning Technologies*.
- 2018, 2019 University of Colorado, Boulder. EBIO 4090 (Undergrad) *Coral Reef Ecology*.
- 2018, 2019 University of Colorado, Boulder. ENV5 5000 (Grad) *Policy, Science & the Environment*.
- 2018 University of Colorado, Boulder. ATOC 6020 (Grad) *Communicating Science*.
- 2018 Stanford University. Stanford, CA. ENVRINST 220 (Grad/Undergrad): *The Social Ocean: Conservation, Management, Ethics and Policy*.
- 2017 University of Colorado. Boulder. Boulder, CO. GEOG 2852 (Undergrad) *Contemporary Southeast Asia: Environmental Politics*.
- 2017 University of Colorado, Boulder. Boulder, CO. IAFS 3000 (Undergrad) *Climate Affairs in the Developing World*.
- 2017 Stanford University. Stanford, CA. ENVRINST 220 (Grad/Undergrad): *The Social Ocean: Conservation, Management, Ethics and Policy*.
- 2016 Stanford University. Stanford, CA. ENVRES 315 (Grad): *Interdisciplinary Research Design*.
- 2016 Stanford University. Stanford, CA. ENVRINST 220 (Grad/Undergrad): *The Social Ocean: Conservation, Management, Ethics and Policy*.
- 2016 Middlebury Institute for International Studies. Monterey, CA. IEPG 8652 (Grad): *International Marine Law*.
- 2015 Middlebury Institute for International Studies. Monterey, CA. IEPG 8652 (Grad): *International Marine Law*.
- 2014 Middlebury Institute for International Studies. Monterey, CA. IEPG 8516 (Grad): *High seas management and conservation: Challenges and opportunities*.
- 2014 Stanford University. Stanford, CA. Think 40 (Undergrad): *A transition toward sustainability*.
- 2013 University of California, Santa Cruz. SCICOMM 160 (Undergrad): *Introduction to Science Writing*.
- 2012 Stanford University. Stanford, CA. PWR 1 (Undergrad): *Debating the Environment*.
- 2010 Harvard University. Cambridge, MA. FOLKMYTH 126 (Undergrad): *Continuing Oral Traditions in Indigenous Communities*.

Workshop Teaching & Development

- 2019 National Snow and Ice Data Center, Useful Arctic Knowledge science communication Workshop, University of Colorado, Boulder, guest speaker.
- 2018 Research and Innovation Office, Faculty Fellows Science Communication Workshop, University of Colorado Boulder, guest speaker.
- 2017 United States National Committee of the Association of Polar Early Career Scientists Workshop on Communicating Science for Polar Scientists. Boulder, CO. Speaker.
- 2012-16 Inter-campus Interdisciplinary Workshops in Environment & Resources. Liaison & organizer for graduate student and faculty workshops between UC Berkeley, UC Santa Cruz, & Stanford University.
- 2015 Stanford University. Case Study & Qualitative Methods Working Group. Organized, instructed, and led quarter long seminar.
- 2011 Society for Environmental Journalism. Video workshop, instructor.
- 2010 Northern California Association of Science Writers. Multi-media workshop, instructor.
- 2009 San Francisco Exploratorium. Multi-media training workshop, instructor.

SERVICE & LEADERSHIP

- 2019-present Homeward Bound. Science faculty on women's leadership expedition to Antarctica.

2019-present Blue Parks, Marine Conservation Institute, Science Council member.
 2019-present *Climatic Change*, Associate Deputy Editor.
 2018-present Standing Committee on the Antarctic Treaty System, (SCATS) Scientific Committee on Antarctic Research (SCAR), Deputy Chief Officer.
 2019-present University of Colorado, Boulder, Merit review committee.
 2018-present University of Colorado, Boulder, Undergraduate curriculum committee.
 2018-present University of Colorado, Boulder, Arctic Certificate Committee
 2012-present Journal Reviewer for *Science*, *Conservation Biology*, *Conservation Letters*, *PLOS ONE*, *Frontiers in Marine Science*, *Marine Policy*, *Antarctic Science*, *CCAMLR Science*, *Global Environmental Change*, *Nature Climate Change*, *Nature Communications*, *Climate Policy*.
 2018 University of Colorado, Boulder, Peer classroom evaluation committee.
 2014-15 Stanford University, Emmett Interdisciplinary Program in Environment and Resources, Executive Committee, Student Representative.
 2013-14 Stanford University, Graduate Student Advisory Council. President.
 2012-14 The Coastal Society. Stanford University Chapter. President.
 2013 Stanford + Connects. Stanford University Alumni event. Student Ambassador.

MENTORING & ADVISING

Doctoral students

2019-present Diana Dorman. PhD student, Environmental Studies Program (ENVS), University of Colorado, Boulder (CU Boulder). Primary advisor.
 2018-present Rawinorn Dulyakasem. PhD student, ENVS, CU Boulder. Primary advisor.
 2018-present Emily Nocito. PhD student, ENVS, CU Boulder. Primary advisor.
 2018-present Brendan Buzzard. PhD candidate, ENVS, CU Boulder. Committee member.
 2019-present Denise Fernandes. PhD candidate, ENVS, CU Boulder. Committee member.
 2019-present Ashby Leavell. PhD candidate, ENVS, CU Boulder. Committee member.
 2019-present Holly Olivarez. PhD student, ENVS, CU Boulder. Committee member.
 2019-present Jeremiah Osborne-Gowey. PhD candidate, ENVS, CU Boulder. Committee member.
 2019-present Devon Reynolds. PhD student, ENVS, CU Boulder. Committee member.
 2019-present Victoria Stout. PhD candidate, ENVS, CU Boulder. Committee member.

Master's students

2019-present Casey White. MS student, Environmental Studies Program, University of Colorado, Boulder. Primary advisor.
 2018-present Zephyr Sylvester. MS student, Environmental Studies Program, University of Colorado, Boulder. Primary advisor.
 2019 Abigail Conner. MS student, Department of Civil, Environmental, and Architectural Engineering, University of Colorado, Boulder. Topic: Irrigation impacts on hydrologic exchange flows and examination of governance using a social-ecological framework. Committee Member.
 2018-2019 Diana Dorman. MS student, Environmental Studies Program, University of Colorado, Boulder. Topic: Sustainable Energy for All?: Energy access in the Green Climate Fund. Committee Member.
 2017-2018 Emily Nocito. University of Maine, Orono. Topic: Marine Protected Areas and regional fisheries management organizations: Defining "success" for conservation and management. Committee Member.

Undergraduate students

- 2019-present Annika Cobb. Honors student, Environmental Studies Program (ENVS), University of Colorado, Boulder (CU Boulder). Primary advisor and mentor for Undergraduate Research Opportunities Program (UROP) grant.
- 2019-present Nora Apelgren. Honors student, ENVS, CU Boulder. Primary advisor and UROP mentor.
- 2019-present Isabella Sofio, Honors student, ENVS, CU Boulder, Primary advisor.
- 2018-2019 Katie Ebinger, Honors student, ENVS, CU Boulder. Committee member.
- 2018-present Internship advisor for multiple upper division undergraduates in the topic of Antarctic conservation, protected areas and politics.
- 2016 Stanford University. Academic mentor, *Senior Reflection*, art & science undergraduate senior project.

SELECTED POPULAR COVERAGE OF PROFESSIONAL WORK

- *9News*. [CU researchers were part of the largest ever all-women expedition to Antarctica](#). 16 Dec 2019.
- *China Dialogue Ocean*. [Podcast: China's interest in Antarctica](#). 13 Dec 2019.
- *Colorado Arts and Sciences Magazine*. [CU Boulder prof and 100 women set sail for Antarctica](#). 25 Nov 2019.
- *CU Boulder Today*. [Antarctic marine protection treaty offers lessons for global conservation](#). 20 Sept 2019.
- *Nature Research Behavioural & Social Sciences Community*. [Spotlight on early-career researchers: An interview with Dr. Cassandra Brooks](#). June 2019.
- *Prensa Antarctica*. [Cassandra Brooks: "La ciencia se mueve mas lento que el ritmo del cambio climatico"](#). January 2018.
- *Inside the Greenhouse*. [More than scientists: Cassandra Brooks](#). August 2018.
- *Pew Charitable Trusts*. [Southern Ocean Conservation Must Lean on Science, Expert Says](#). June 2018.
- *Wild Voices*. [The battle to preserve the world's most pristine sea](#). March 2018.
- *Generation Anthropocene*. [Saving the Last Ocean](#). June 2017.
- *Audubon*. [The world's largest marine protected area is a conservation victory with caveats](#). 16 Nov 2016.
- *Speak Up For Blue*. [Ross Sea marine protected area with Cassandra Brooks](#). 2 Nov 2016.
- *Financial Times*. [Antarctic waters win protection in landmark international deal](#). 27 Oct 2016.
- *BBC*. [Nations push to protect Antarctica's 'last ocean.'](#) 27 Oct 2016.
- *Reuters*. [U.S. hopeful it can win Russia's agreement on Antarctic Ocean deal](#). 21 Oct 2016.
- *The Washington Post*. [Finally, the world may protect one of the most pristine parts of the Southern Ocean](#). 19 Oct 2016.
- *Spiegel* (Germany). [Verhandlungen über Antarktis-Schutz](#) (Negotiations on Antarctic protection). 16 Oct 2016.
- *La Repubblica* (Italy). [O's digest – Science](#). 14 Oct 2016.
- *ITechPost*. [Antarctic marine protected areas could be in danger, here's what you can do to help](#). 14 Oct 2016.
- *ABC*. [International science community puts pressure on Russia to support Antarctic marine protection plan](#). 13 Oct 2016.
- *Phys.org*. [Future of Antarctic marine protected areas at risk](#). 13 Oct 2016.
- *Science Daily*. [Antarctic species threatened by willful misinterpretation of legal treaty](#). 21 Oct 2015.
- *Stanford University News Service*. [Bold solutions for high seas marine conservation](#). 10 Feb 2015.

Media – Selected coverage of 100+ media outlets that featured my Ross Sea viral time-lapse video.

- *CNN*. [Stunning time-lapse brings Antarctic ice breaking adventure to life](#). 30 May 2013.

- *Imaging Resource*. [Beautiful time-lapse video captures the surprising nuances of the Antarctic](#). 13 May 2013.
- *Smithsonian*. [Feel what it's like to live on an Antarctic Icebreaker for Two Months](#). 7 May 2013.
- *LiveScience*. [Amazing Antarctic video brings Ice to Life](#). 7 May 2013.
- *The Atlantic*. [What it's like to live on a ship sailing through the Antarctic ice](#). 6 May 2013.
- *Washington Post*. [What it's like to ride an icebreaker around Antarctica](#). 6 May 2013.

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science
 Association of Polar Early Career Scientists
 Scientific Committee on Antarctic Research
 World Commission on Protected Areas
 American Fisheries Society
 Society for Environmental Journalists

SKILLS & CERTIFICATIONS

Data analysis: Quantitative and qualitative software including NVIVO
 Spatial analysis and mapping: ArcGIS
 Graphics and image editing: Adobe programs
 Media software: Adobe programs, Final Cut Pro, Audacity, Soundslides
 Communications skills: videography, photography, radio and podcasts
 Website: Development, design and content
 Scuba Diving: AAUS scientific diver, nitrox, open water
 First Aid: Wilderness First Responder, CPR, Basic First Aid