

# P. Dee Boersma

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## PRESENT POSITION University of Washington

- ❖ Director, Center for Ecosystem Sentinels
- ❖ Wadsworth Endowed Chair in Conservation Science
- ❖ Professor of Biology
- ❖ Adjunct Curator of Ornithology, Burke Museum
- ❖ Co-Chair, Penguin Specialist Group, Species Survival Commission, International Union for the Conservation of Nature (IUCN)

## EMPLOYMENT HISTORY

Wadsworth Endowed Chair in Conservation Science, University of Washington	2005 to date
Professor of Biology, University of Washington	2003 to date
Adjunct Professor of Women Studies, University of Washington	1993 – 2013
Acting Department Chair of Biology, University of Washington	2005 – 2006
Associate Chair of Biology, University of Washington	2004 – 2005
Professor of Zoology, University of Washington	1988 – 2003
Professor of Environmental Studies, University of Washington	1988 – 1994
Associate Director of Institute for Environmental Studies, Univ. of Washington	1987 – 1993
Acting Director, Institute for Environmental Studies, University of Washington	1990 – 1991
Assoc. Professor, Environmental Studies & Zoology, University of Washington	1980 – 1988
Acting Director, Institute for Environmental Studies, University of Washington	1981 – 1982
Asst. Professor of Environmental Studies, University of Washington	1974 – 1980
Adjunct Professor of Zoology, University of Washington	1974 – 1980
Lecturer, Ohio State University	1974

## EDUCATION

Honorary Doctor of Science, Central Michigan University	2003
Ph.D. Zoology, Ohio State University	1974
“The Galapagos Penguin: A Study of Adaptations for Life in an Unpredictable Environment.”	
B.Sc. Honors, Central Michigan University	1969

## SCHOLARSHIPS & AWARDS

Elected to American Academy of Arts & Sciences	2021
Finalist, Indianapolis Prize	2016, 2018, 2020
Distinguished Alumni Achievement Award, Ohio State University	2019
Lifelong Learning Award, University of Washington	2018
Pacific Seabird Group Lifetime Achievement Award	2017
Mortar Board Alumni Achievement Award, Chicago Illinois	2012
Ocean Conservation Award, Aquarium of the Pacific, Long Beach, California	2012
Naperville High School, Outstanding Alumni Award, Naperville, Illinois	2012
Washington State Academy of Science, Elected	2011
The Nature Conservancy of Washington Environmental Hero	2010
Fulbright US Senior Scholar, University of Otago, Dunedin, New Zealand (Jan. to April)	2010
15th Annual Heinz Award for the Environment	2009
American Ornithologists' Union Elliott Coues Award	2008
Grace Hopper Outstanding Achievement Award	2008
Education Fellow in the Life Sciences, National Academies	2006 – 2007
Distinguished Service Award, Society for Conservation Biology	2006
Leopold Fellow	2000 – 2001
AAAS Fellow, Elected	2000
Pew Fellow in Conservation and the Environment	1997 – 2000
William Evans Visiting Fellow, University of Otago, New Zealand	1995
Elected Fellow, American Ornithologists' Union	1994
Dean's Achievement Award, University of Washington	1994
Distinguished Teaching Award, University of Washington	1993
Outstanding Centennial Alumni Award, Central Michigan University	1993
Top 10 Outsiders of the Year Award (Outside magazine)	1987
Kellogg National Leadership Fellowship	1982 – 1985
MATRIX TABLE: Women of Achievement	1983
Elected member, American Ornithologists' Union	1981
Outstanding Alumni Award, Central Michigan University	1978
Scholar-Diplomat Fellow, U.S. Department of State	1977
University Fellowship, Ohio State University	1969 – 1973
Board of Trustees Scholarship, Central Michigan University	1968 – 1969
President, Student Senate, Central Michigan University	1969
University Chippewa Award, Central Michigan University	1969
David H. Morgan Leadership Award, Central Michigan University	1967
Outstanding Freshman/Woman of the Year, Central Michigan University	1966

## **SELECTED PUBLIC SERVICE & PROFESSIONAL ACTIVITIES**

Co-chair, Penguin Specialist Group, International Union for Conservation of Nature	2014 to date
Board of Directors, Peregrine Fund	1995 – 2002, 2003 – 2012, 2014 to date
Editorial Board, PeerJ	2012 to date
Board of Directors, Natural History Network	2008 – 2012
Executive Editor, Conservation Magazine	2000 – 2014
Scientific Advisor, Penguin Taxon Advisory Group, AAZPA	1992 to date
Scientific Fellow, Wildlife Conservation Society N.Y.Z.S (elected)	1982 – 2020
Advisory Board, Disney’s Animal Kingdom Theme Park	1994 – 2012
International Cosmos Prize selection committee, Japan	2009 – 2012
Member, U.S. National Committee, International Union for Biological Science	2001 – 2007
Governing Board, Ecological Society of American	2004 – 2006
Board of Directors, Islandwood	2001 – 2006
Board of Editors, El Horneno, Revista de Ornitologia Neotropical por Aves Argentinas	2002 – 2005
Board of Governors, Society for Conservation Biology	1991 – 2005
Ocean Science Advisory Board, Conservation International	2002 – 2004
Naturalist, Lindblad Expeditions, Antarctica	2001 – 2004
Board of Scientific Experts COMPASS (Comm. Partnership for Science and the Sea)	2000 – 2004
Advisory Board Island Press: Initiative on Environmental Instruction	1999 – 2004
Board of Editors, Ecological Applications	1999 – 2002
Past President, Society for Conservation Biology	1999 – 2001
Principal Investigator, National Review of Recovery Plans for SCB and FWS	1998 – 2001
Board of Directors, Bullitt Foundation	1997 – 2001
President, Society for Conservation Biology	1997 – 1999
Board of Directors, Washington Nature Conservancy	1995 – 1998
President-elect, Society for Conservation Biology	1995 – 1997
Honorary Member Award Subcommittee, Ecological Society of America	1994 – 1996
National Research Council BEST Committee	1994 – 1996
Board of Washington Environmental Council	1994 – 1995
Scientific Advisor, EcoBios (an Argentine group studying Magellanic penguins)	1985 – 1995
Thesis Advisor and Adjunct Faculty, University of Buenos Aires, Argentina	1987 – 1994
Science Advisory Board, Washington Department of Ecology	1990 – 1992
Visiting Scientist, Antarctic Division, Dept. of Sci. and Indust. Res., N.Z.	1991
Regional Representative, Pacific Seabird Group	1981 – 1985
Scientific Committee on the Outer Continental Shelf Advisory Board, Department of Interior	1979 – 1983
Pacific Area Marine Sanctuary Committee, Department of Commerce, NOAA	1982
Board of Directors, Zero Population Growth	1976 – 1982
Advisor, U.S. Delegation to United Nations Commission on the Status of Women	1974
Advisor, U.S. Delegation to United Nations Conference on World Population, Romania	1974
Trustee, Central Michigan University, Mt. Pleasant, MI	1970 – 1974
Member, U.S. Presidential Task Force of Women's Rights and Responsibilities	1969

## SELECTED PUBLIC LECTURES

Bruce Museum, guest speaker; Greenwich CT	2023
University of Nebraska-Lincoln, guest lecturer; Lincoln NE	2022
International Penguin Conference, University of Otago; Dunedin NZ	2019
Florida State University, guest lecturer; Tallahassee FL	2018
UW Alumni Tours – Antarctic Trip	2018
The College of Wooster, Ralph Schreiber Lecture; Wooster OH	2017
Idaho Audubon Society	2017
AZA Mid-year Meeting: Avian SAG/Avian TAG	2015
TED Talk, TEDxRainier; Seattle WA	2014
Argos Wildlife Users Conference, keynote speaker; Baltimore MD	2014
New England Aquarium, Public Lecture; Boston MA	2014
KCTS 9 Legacy Luncheon, keynote speaker; Seattle WA	2014
University of Alabama Biodiversity symposium, keynote speaker; Tuscaloosa, AL	2014
UW College of the Environment, keynote speaker; Seattle WA	2014
Bowling Green State University, Pasakarnis Buchanan Lectures; Bowling Green OH	2013
Tufts University , The Barnum Museum Lecture Series; Medford, MA	2012
International Congress for Conservation Biology, plenary address; Auckland NZ	2011
People for Puget Sound 20th Anniversary Lecture; Seattle WA	2011
TED Talk, Mission Blue	2010
Penguin Conference, 20th anniversary keynote address; Japan	2010
Univ. Of Otago, Distinguished Communicator Lecture Series; Dunedin, NZ	2010
UCLA Oppenheim Public Lecture, Los Angeles CA	2009
Middlebury College, Endowed Margolin Environmental Affairs Lecture; Middlebury VT	2009
North Carolina State University, Brandt Lecture; Raleigh, NC	2008
Cooper Ornithological Society, plenary address; CA	2007
Duke University, plenary address; Durham NC	2006
UW Television, Science Forum; Seattle WA	2004
UW Freshman Convocation, Keynote Address; Seattle WA	2001
American Ornithologists' Union, plenary address; Seattle WA	2001
Burke Museum, 37th Annual Burke Lecture; Seattle WA	2001
Society of Animal Behavior, Plenary Address	2000
University of Iowa, Errington Lecture; Ames, IA	1998

## PUBLICATIONS

### Peer-Reviewed Journal Articles (\* Students under Boersma's direction)

**2020 – 23** Wagner, E., Frere, E., Boersma, P.D. 2023. Changing course: Relocating commercial tanker lanes significantly reduces threat of chronic oiling for a top marine predator. *Marine Pollution Bulletin* 193: 115-195 doi.org/10.1016/j.marpolbul.2023.115195

Clark-Wolf, T.J., Boersma, P.D., Rebstock, G., and Abrahms, B. 2022. Climate presses and pulses mediate the decline of a migratory predator. *Proceedings of the National Academy of Sciences* 120(3): e2209821120 doi.org/10.1073/pnas.2209821120

Wagner, E.L., Cappello, C.D.\*, and Boersma, P.D. 2022. Should I stay or should I go: Factors influencing mate retention and divorce rates in a colonial seabird. *Animal Behaviour In Press*. doi.org/10.1016/j.anbehav.2022.08.002

Rebstock, G., Borboroglu P.G., and Boersma P.D. 2022. Effective marine protection depends on colony and year for a widespread seabird, the Magellanic penguin. *Frontiers in Marine Science* 9:815706 doi: 10.3389/fmars.2022.815706

\*Holt, K.A. and Boersma, P.D. 2022. Unprecedented heat mortality of Magellanic penguins. *Ornithological Applications* 124: 1-12 doi.org/10.1093/ornithapp/duab052

Rebstock, G., Abrahms, B., and Boersma, P.D. 2022. Foraging-site fidelity inverses reproductive success by increasing foraging efficiency in a marine predator, the Magellanic penguin. *Behavioral Ecology* 33: 868-875. doi.org/10.1093/beheco/arac052

Cole, T.L., et al. 2022. Genomic insights into the secondary aquatic transition of penguins. *Nature Communications* 13: 3912. doi.org/10.1038/s41467-022-31508-9

Wagner, E.L., García Borboroglu, P., and Boersma, P.D. 2021. The power of penguins: Where tourists travel to see penguins in the wild. *Ocean and Coastal Management* 201: 105429.

\*Cappello, C.D. and Boersma, P.D. 2021. Ecology. Consequences of phenological shifts and a compressed breeding period in Magellanic penguins. *Ecology*. e03443 doi:10.1002/ecy.3443

Sydeman, W.J., Hunt, G.L., Pikitch, E.K., Parrish, J.K., Piatt, J.F., Boersma, P.D., Kaufman, L., Anderson, D.W., Thompson, S.A., and Sherley, R.B. 2021. South Africa's experimental fisheries closures and recovery of the endangered African Penguin. *ICES Journal of Marine Science* 78: 3538-3543.

Sydeman, W.J., Schoeman D. S., Thompson A, Hoover B.A., García-Reyes M, Daunt, F, Agnew, P., Anker-Nilssen T., Barbraud C, Barrett R., Becker, P.H., Bell, E., Boersma, P.D., Bouwhuis S., Cannel B., Crawford R.J.M., Dann P., Delord K., Elliott G., Erikstad, K.E., Flint E., Furness R.W., Harris M.P., Hatch S., Hilwig K., Hinke J.T., Jahncke J., Mills J.S., Reiertsen T.K., Renner H., Sherley R.B. Surman C., Taylor G., Thayer J.A., Trathan P.N., Velarde E., Walker K., Wanless S., Warzybok P., and Watanuk Y. 2021. Hemispheric asymmetry in ocean change and the productivity of ecosystem sentinels. *Science*. 372 (6545): 980-983 <https://doi.org/10.1126/science.abf1772>

Baylis, A.M.M., de Lecea, A.M., Tierney, M., Orben, R.A., Ratcliffe, N., Wakefield, E., Catry, P., Campioni, L., Costa, M., Boersma, P.D., Galimberti, F., Granadeiro, J.P., Masello, J.F., Pütz, K., Quillfeldt, P., Rebstock, G.A., Sanvito, S., Staniland, and I.J. and Brickle, P. 2021. Overlap between marine predators and proposed Marine Managed Areas on the Patagonian Shelf. *Ecological Applications*. e02426. <https://doi.org/10.1002/eap.2426>

Gownaris, N.J., and Boersma, P.D. 2021. Feet first: Adaptive growth in magellanic penguin chicks. *Ecol Evol*. 11: 4339– 4352. <https://doi.org/10.1002/ece3.7331>

Hibbets, E.M., Schumacher, K.I., Scheppler, H.B., Boersma, P.D., and Bouzat, J.L. 2020. Genetic evidence of hybridization between Magellanic (*Sphensicus magellanicus*) and Humboldt (*Sphensicus humboldti*) penguins in the wild. *Genetica* 148: 215-228

Arauco-Shapiro G., Schumacher K.I., Boersma P.D., Bouzat J.L. 2020. The role of demographic history and selection in shaping genetic diversity of the Galapagos penguin (*Sphensicus Mendiculus*). *PLoS ONE* 15(1): e0226439

Gownaris, N.J., P.D. Boersma, and P. García Borboroglu. 2020. Sex Ratio is Variable and Increasingly Male-Biased at Two Colonies of Magellanic Penguins. *Ecology* 101( 3):e02939

Baylis, A., Lecea, A., Tierney, M, Orben, R. , Ratcliffe, N., Wakefield, E., Catry, P., Campioni, L., Costa, M., Boersma, P.D., Galimberti, F., Granadiero, J., Masello, J., Putz, K., Quillfeldt, P., Rebstock, G., Sanvito, S., Staniland, I, Brickle, P. 2020. Overlap between marine predators and proposed marine managed areas on Patagonia shelf. *Biological Conservation*. In review.

Hailin Pan, Theresa L Cole, Xupeng Bi, Miaoquan Fang, Chengran Zhou, Zhengtao Yang, Daniel T Ksepka, Tom Hart, Juan L Bouzat, Lisa S Argilla, Mads F Bertelsen, P Dee Boersma, Charles-Andre Bost, Yves Cherel, Peter Dann, Steven R Fiddaman, Pauline Howard, Kim Labuschagne, Thomas Mattern, Gary Miller, Patricia Parker, Richard A Phillips, Petra Quillfeldt, Peter G Ryan, Helen Taylor, David R Thompson, Melanie J Young, Martin R Ellegaard, M Thomas P Gilbert, Mikkel-Holger S Sinding, George Pacheco, Lara D Shepherd, Alan J D Tennyson, Stefanie Grosser, Emily Kay, Lisa J Nupen, Ursula Ellenberg, David M Houston, Andrew Hart Reeve, Kathryn Johnson, Juan F Masello, Thomas Stracke, Bruce McKinlay, Pablo Garc'ia Borboroglu, De-Xing Zhang, Guojie Zhang, Correction to: High-coverage genomes to elucidate the evolution of penguins, *GigaScience*, V 9, Issue 3, March 2020, g1aa031, <https://doi.org/10.1093/gigascience/g1aa031>

**2015 – 19** Pan H., Cole TL. Xupeng B., Fang M., Zhou C., Yang Z., Ksepka D.T., Hart T., Bouzat J.L., Argilla L.S., Bertelsen M.F., Boersma P.D., Bost C., Cherel Y., Dann P., Fiddaman S.r., Howard P., Labuschagne K., Mattern T., Miller G., Parker P., Phillips R.A., Quillfeldt P., Ryan P.G., Taylor H., Thompson D.R., Young M.J., Ellegaard M.R., Gilbert T.P., Sinding M.S., Pacheco G., Shepherd L.D., Tennyson A.J.D., Grosser S. Kay E., Nupen L.J., Ellenberg U., Houston D.M., Reeve A.H., Johnson K., Maello J.F., Stracke T., McKinlay B., Borboroglu P.G., Zhang D., Zhang, G. 2019. High-coverage genomes to elucidate the evolution of penguins. *GigaScience* V 8, Issue 9: giz117

Boersma, P.D. and Crawford R. 2019. Comparative Natural History and Population Ecology of the World's Four Banded (*Spheniscus*) Penguins. *Endangered Species Research*.

Boersma, P. D., Garcia Borboroglu, P., Gownaris, N.J., Bost, CA., Chiaradia, A., Ellis, S., Schneider, T., Seddor, P.J., Simeone, A., Trathan P.N., Waller, L.J., Wienecke, B. 2019. Applying Science to Pressing Conservation Needs for Penguins. *Conservation Biology* 34: 103-112

Baylis, A., Tierney M., Orben R., Warwick-Evans V., Wakefield E., Grecian J., Trathan P., Reisinger R., Ratcliffe N., Croxall J., Campioni L., Catry P., Crofts S., Boersma P.D, Galimberti F., Hedd A., Granadeiro J.P., Handley J., Hayes S., Masello J., Montevecchi W., Pütz K., Quillfeldt P., Rebstock G., Sanvito S., Staniland I., Brickle P. Important At-Sea Areas of Colonial Breeding Marine Predators on the Southern Patagonian Shelf. *Sci Rep*. 9: 8517

Ropert-Coudert Y., Chiaradia, A, Ainley, David G., Barbosa, A., Boersma, PD., Brasso, R., Dewar, M., Ellebnurg, U., Garcia-Borboroglu, P., Emerson, L., Hickox, R., Jenouvrier, S., Kato, A., McIntosh, R., Lewis, P., Ramirez, F., Ruoppolo, V., Ryan, P.G., Seddor P.J., Sherley, R.B., Vanstreels, R.E.T., Waller, L., Woehler, E. Trathan, P.N. 2019. Happy Feet in a Hostile World? The Future of Penguins Depends on Proactive Management of Current and Expected Threats. 2019. *Frontiers* 6: 248.

Rebstock, G., Stor, T., Garcia-Borboroglu, P., and Boersma, P.D. 2019. Lateralization (handedness) in Magellanic penguins. *PeerJ* 7:e06936.

Wagner, E.L. and Boersma, P.D. 2019. Food allocation and feeding behaviours of Magellanic penguin, *Spheniscus magellanicus*, adults and chicks. *Animal Behaviour* 148: 161-168.

Gownaris, N. and Boersma, P.D. 2019. Sex-Biased Survival Contributes to Population Decline in a Long-Lived Seabird, the Magellanic Penguin. *Ecological Applications* 29(1): e01826.

Oppel, S., Bolton, M., Carneiro, A.P.B., Dias, M.P., Green, J.A., Masello, J.F., Phillips, R.A., Owen, E., Quillfeldt, P., Beard, A., Bertrand, S., Blackburn, J., Boersma, P.D., Borges, A., Broderick, A.C., Catry, P., Cleasby, I., Clingham, E., ... Croxall, J. 2018. Spatial scales of marine conservation management for breeding seabirds. *Marine Policy* 98: 37-46.

Rebstock, G.A., and Boersma, P.D.. 2018. Oceanographic conditions in wintering grounds affect arrival date and body condition in breeding female Magellanic penguins. *Marine Ecology Progress Series*. 601: 253-267.

\*Cappello, C., and P.D. Boersma. 2018. Sexing Galápagos penguins (*Spheniscus mendiculus*) by morphological measurement. *Endangered Species Research*. 35: 169-173.

Wingfield, J.C.,M. Hau, P.D. Boersma, L.M Romero, N. Hillgarth, M. Ramenofsky, M., P. Wrege, R. Scheibling, J.P. Kelley, B. Walker and M. Wikelski. 2018. Effects of El Niño and La Niña South- ern Oscillation events on the adrenocortical responses to stress in birds of the Galápagos Is- lands. *General and Comparative Endocrinology*. 259: 20-33.

Auge A.A, M.P. Dias, B. Lascelles, A.M.M. Baylis, A. Black, P.D. Boersma, P. Catry, S. Crofts, F. Galimberti, J.P. Granadeiro, A. Hedd, K. Ludynia, J.F. Masello, W. Montevecchi, R.A. Phillips, K. Putz, P. Quillfeldt, G.A. Rebstock, S. Sanvito, I.J. Staniland, A. Stanworth, D. Thompson, M. Tierney, P.N. Trathan and J.P. Croxall. 2018. Framework for mapping key areas for marine mega- fauna to inform Marine Spatial Planning: the Falkland Islands case study. *Marine Policy*. 92: 61- 72

Pikitch, E.K., P.D. Boersma, I.L. Boyd, D.O. Conover, P. Cury, T.E. Essington, S.S. Heppell, E.D. Houde, M. Mangel, D. Pauly, E. Plaganyi, K. Sainsbury and R.S. Steneck. 2017. The strong connection between forage fish and their predators: A response to Hillborn et al. (2017). *Fisheries Research*. doi; 10.1016.

\*Cerchiara, J.A., R.A. Risques, D. Prunkard, J.R. Smith, O.J. Kane and P.D. Boersma. 2017. Telo- meres shorten and then lengthen before fledging in Magellanic penguins (*Spheniscus magel- lanicus*). *Aging*. 9: 487- 493.

Rebstock, G.A., and P.D. Boersma. 2017. Comparing reproductive success of a colonial seabird, Magellanic penguins, estimated by course- and fine-scale temporal sampling. *Condor*. 119(2): 225-238.

Boersma, P.D., \*C.D. Cappello and Godfrey Merlen. 2017. First observations of post-fledging care in Galápagos penguins (*Spheniscus mendiculus*). *The Wilson Journal of Ornithology*. 129: 186 - 191.

\*Koehn, L.E., J.J. Hard, E.P. Akst and P.D. Boersma. 2016. Natural selection on morphology var- ies among years and by sex in Magellanic Penguins (*Spheniscus magellanicus*). *Auk*. 133: 783- 805. 2015

Rebstock, G.A., P.D. Boersma, and \*P. García-Borboroglu. 2015. Changes in habitat use and nesting density in a declining seabird colony. *Population Ecology* 58: 105-119

Boersma, P.D., G.A. Rebstock, and \*P. García-Borboroglu. 2015. Marine protection is needed for Magellanic penguins in Argentina based on long-term data. *Biological Conserv.* 182: 197-204.

\*Pozzi, L.M., \*P. García-Borboroglu, P.D. Boersma, and M.A. Pascual. 2015. Population regulation in Magellanic penguins: what determines changes in colony size? *PLoS ONE* 10:e0119002.

**2010 – 14** \*Walker, Brian, P.D. Boersma, and J.C. Wingfield. 2014. The Glucocorticoid stress response in Magellanic penguins: comparing within and between breeding seasons, by age and colony, after fighting, and with other penguin species. 2014. *Can. J. Zool.* 93:123-131

Trathan, P.N., \*P. García-Borboroglu, P.D. Boersma, C.-A. Bost, R.J.M. Crawford, G.T. Crossin, R.J. Cuthbert, P. Dann, L.S. Davis, S. de la Puente, U. Ellenberg, H. Lynch, T. Mattern, K. Putz, P. J. Seddon, W. Trivelpiece, and B. Wienecke. 2014. Pollution, Habitat Loss, Fishing, and Climate Change as Critical Threats to Penguins. *Conserv. Biology* 29: 31-41

Pikitch, E.K., K.J. Rountos, T.E. Essington, C. Santora, D. Pauly, R. Watson, U.R. Sumaila, P.D. Boersma, I.L. Boyd, D.O. Conover, P. Cury, S.S. Heppell, E. D. Houde, M. Mangel, E. Plagányi, K. Sainsbury, R.S. Stenech, T.M. Geers, N. Gownaris, and S.B. Munch. 2014. Published online 2012. The global contribution of forage fish to marine fisheries and ecosystems. *Fish and Fisheries* 15(1): 43–64

\*Skewgar, E., P.D. Boersma, and A. Simeone. 2014. Winter Migration of Magellanic Penguins (*Spheniscus magellanicus*) along the Southeastern Pacific. *Waterbirds* 37(2):203-209.

Boersma, P.D., and G.A. Rebstock. 2014. Climate Change Increases Reproductive Failure in Magellanic Penguins. *PLoS ONE* 9 (1): e85602.

\*Stokes, D.L., P.D. Boersma, and J. Lopez de Casenave. 2014. Conservation of Migratory Magellanic Penguins Requires Marine Zoning. *Biological Conserv.* 170:151-161

Pikitch, E., S. Munch, K. Broms, M. Mangel, C. Perretti, P.D. Boersma, I. Boyd, D. Conover, P. Cury, T. Essington, T. Geers, N. Gownaris, S. Heppell, E. Houde, D. Pauly, K. Rountos, K. Sainsbury, C. Santora, and R. Steneck. 2014. Predator Responses to the Exploitation of Forage Fish: The PREP Equation. *Conserv. Letters.*

\*Pozzi, L.M., P.D. Boersma, and M.A. Pascual. 2013. Beach Attendance in Magellanic penguins *Spheniscus magellanicus*. *Ardeola* 60(2):279-290.

Rebstock, G.A. and P.D. Boersma. 2013. Parental behavior controls incubation period and asynchrony of hatching in Magellanic Penguins: Reply to Demongin, Poisbleau, and Eens (2013). *The Condor* 115(1):5-7.

Boersma, P.D. 2012. Penguins and Petroleum: Lessons in Conservation Ecology. *Frontiers in Ecology and the Environment* 10:218-219.

Lewis, R., D. Oro, B.J. Godley, L. Underhill, S. Bearhop, R.P. Wilson, D. Ainley, J.M. Marcos, P.D. Boersma, \*P.G. Borboroglu, T. Boulinier, M. Frederiksen, M. Genovart, J. González-Solís,



J.A. Green, D. Grémillet, K.C. Hamer, G.M. Hilton, K.D. Hyrenbach, A. Martínez-Abraín, W.A. Montevecchi, R.A. Phillips, P.G. Ryan, P. Sagar, W.J. Sydeman, S. Wanless, Y. Watanuki, H. Weimerskirch, P. Yorio. 2012. Research priorities for seabirds: improving conservation and management in the 21<sup>st</sup> century. *Endangered Species Research* 17:93-121.

Knafler, G.J., \*J.A. Clark, P.D. Boersma, and J.L. Bouzat. 2012. MHC Diversity and Mate Choice in the Magellanic Penguin, *Spheniscus magellanicus*. *Journal of Heredity* 103(6): 759-768.

\*Wagner, E.L., E. Lee, and P. D. Boersma. 2012. Patterns of acceptance of artificial eggs and chicks by Magellanic penguins (*Spheniscus magellanicus*). *Journal of Ornithology* 10.1007/s10336-012-0875-6.

Frias, J.E., M.N. Gil, J.L. Esteves, \*P. Garcia Borboroglu, \*O.J. Kane, \*J.R. Smith, and P. D. Boersma. 2012. Mercury levels in feathers of Magellanic penguins. *Marine Pollution Bulletin* 64(6): 1265-1269

\*Kane, O.J., M.M. Uhart, V. Rago, A.J. Pereda, \*J.R. Smith, \*A. Van Buren, \*J.A. Clark, and P.D. Boersma. 2012. Avian pox in Magellanic penguins (*Spheniscus magellanicus*). *Journal of Wildlife Disease* 48(3): 790-794.

da Silva, R.R., J. Pereira, M. Cirano, C.A.D. Lentini, C. Tanajura., C. Lentinni, M. Cirano, P.D. Boersma, and P. Rodrigues. 2012. Occurrence of Magellanic Penguins along the Brazilian North-east coast during 2008 austral winter. *The Scientific World Journal* pp. 1-10

\*Wagner, E.L. and P.D. Boersma. 2011. Effects of fisheries on seabird community ecology. *Reviews in Fisheries Science* 19(3):157-167.

Rebstock, G.A., and P.D. Boersma. 2011. Parental behavior controls incubation period and asynchrony of hatching in Magellanic penguins. *Condor* 113(2):316-325.

\*Silva, Monica, J.P. Grandadeiro, P.D. Boersma, and I. Strange. 2011. Effects of predation risk on the nocturnal activity budgets of thin-billed prions *Pachyptila belcheri* on New Island, Falkland Islands. *Polar Biol* 34:421-429.

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