

Lauren A. Rogers, PhD

Curriculum Vitae

RESEARCH INTERESTS: Fisheries, climate change, ecosystem services, population dynamics, quantitative ecology, time-series analysis, socio-ecological systems, resilience, climate change vulnerability and adaptation.

EDUCATION

- 2004 – 2010 Ph.D., Aquatic and Fishery Sciences, University of Washington
Dissertation: *Population diversity and the effects of climate on Bristol Bay salmon and Norwegian coastal cod*
- 1998 – 2002 B.S. *with distinction*, Earth Systems, Stanford University

PROFESSIONAL EXPERIENCE

- 11/2015 - Present **Research Fish Biologist**
EcoFOCI, Recruitment Processes, RACE Division
Alaska Fisheries Science Center
National Oceanic and Atmospheric Administration
- 6/2014 – 11/2015 **Fisheries Ecologist** (90% position)
The Natural Capital Project, Stanford University
- 8/2011 – 11/2015 **Post-Doctoral Research Fellow** (10% position since 6/2014, 100% prior)
Nordic Centre for Research on Marine Ecosystems and Resources Under Climate Change (NorMER), and the Centre for Ecological and Evolutionary Synthesis (CEES), University of Oslo, Norway
- 2004 – 2010 **Doctoral Student & Graduate Research Assistant**
School of Aquatic and Fishery Sciences, University of Washington
- 2009 – 2010 **Visiting Researcher**
Centre for Ecological and Evolutionary Synthesis, University of Oslo, Norway
- 2003 – 2004 **Field Team Leader**
Microbial Ecology Team, Palmer Station LTER, Antarctica
- 2002 – 2003 **Research Assistant**
Phytoplankton Ecology Team, Palmer Station LTER, Antarctica
- Jan – Mar 2001 **Undergraduate Researcher**
RVIB *Nathaniel B. Palmer*, East Antarctica
- Jun - Aug 2000 **Research Assistant**
Monterey Bay Aquarium Research Institute, Moss Landing, CA
- 1999 – 2002 **Undergraduate Laboratory Assistant**
Stable Isotope Lab, Stanford University

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TEACHING AND SUPERVISION

- 2013 **Co-supervisor** of Masters student Rémi Patin from École Normale Supérieure
A Bayesian state-space model for the population dynamics of North-East Arctic Haddock
- Nov 2011, 2012 **Guest Lecturer**
Department of Biology, University of Oslo
BIO 4140: *Life history strategies and climate effects*
- Spring 2008 **Teaching Assistant**
School of Aquatic and Fishery Sciences, University of Washington
FISH 330: *Climate change impacts on marine ecosystems*

GRANTS, FELLOWSHIPS AND HONORS

- 2016 – 2018 Work package leader on Norwegian Research Council grant "A century of change: Ecological responses to pollution, climate, and other stressors on the Skagerrak coast" (\$720,000)
- 2015 W.F. Thompson Award for Best Student Paper Published in 2013, American Institute of Fishery Research Biologists
- 2015 – 2017 Collaborator on a Norwegian Research Council grant "Multi-species dynamics above and beneath the sea-surface"
- 2012 Burgen Scholar Award, Academia Europaea
- 2011 Leiv Eiriksson Mobility Grant, Research Council of Norway (\$13,000)
- 2010 International travel award, UW SAFS (\$1,000)
- 2009 – 2010 National Science Foundation Nordic Research Opportunity (\$17,000)
- 2009 – 2010 H. Mason Keeler Endowment for Excellence Scholarship, UW SAFS
- 2006 – 2009 National Science Foundation Graduate Research Fellowship (\$121,500)
- 2005 Galen and Helen Maxfield Fisheries Scholarship, UW SAFS
- 2004 Graduate School Top Scholar Award, University of Washington

PUBLICATIONS (See Google Scholar page for updates)

- Patin, R., **L.A. Rogers**, and J. Ohlberger. 2016. Using a state-space population model to detect age-dependent species interactions. *Canadian Journal of Fisheries and Aquatic Sciences*. 73: 811-818, 10.1139/cjfas-2015-0004.
- Pedersen, M.W. *and 22 others (including L.A. Rogers)*. 2016. Trends in marine climate change research in the Nordic region since the first IPCC report. *Climatic Change* 134:147-161.
- Boonstra, W.J., K.M. Ottosen, A.S.A. Ferreira, A. Richter, **L.A. Rogers** *and 19 others*. 2015. What are the major global threats and impacts in marine environments? Investigating the contours of a shared perception among marine scientists from the bottom-up. *Marine Policy* 60:197-201.
- Rogers, L.A.**, E.M. Olsen, H. Knutsen and N.C. Stenseth. 2014. Habitat effects on population connectivity in a coastal seascape. *Marine Ecology Progress Series* 511:153-163.
- Ohlberger, J., **L.A. Rogers** and N.C. Stenseth. 2014. Stochasticity and determinism: How density-independent and density-dependent processes affect population variability. *PLoS ONE* 9(6): e98940. doi:10.1371/journal.pone.0098940

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- Pantel, J.H., D. Pendleton, A. Walters and **L.A. Rogers**. Linking environmental variability to population and community dynamics. 2014. Pages 119 - 131 in P.F. Kemp, editor. Eco-DAS IX Symposium Proceedings. Association for the Sciences of Limnology and Oceanography, Waco, TX.
- Rogers, L.A.**, D.E. Schindler, P.J. Lisi, G.W. Holtgrieve, P.R. Leavitt, L. Bunting, B.P. Finney, D.T. Selbie, G. Chen, I. Gregory-Eaves, M.J. Lisak and P.B. Walsh. 2013. Centennial-scale fluctuations and regional complexity characterize Pacific salmon population dynamics over the last five centuries. *Proceedings of the National Academy of Sciences USA* 110:1750-1755.
- Holtgrieve, G.W., D.E. Schindler, W.O. Hobbs, P.R. Leavitt, E.J. Ward, L. Bunting, G. Chen, B.P. Finney, I. Gregory-Eaves, S. Holmgren, M.J. Lisak, P.J. Lisi, K. Nydick, **L.A. Rogers**, J.E. Saros, D.T. Selbie, M.D. Shapley, P.B. Walsh, and A.P. Wolfe. 2011. A coherent signature of anthropogenic nitrogen deposition to remote watersheds of the Northern Hemisphere. *Science* 334:1545-1548.
- Rogers, L.A.**, L.C. Stige, E.M. Olsen, H. Knutsen, K.-S. Chan and N.C. Stenseth. 2011. Climate and population density drive changes in cod body size throughout a century on the Norwegian coast. *Proceedings of the National Academy of Sciences USA* 108:1961-1966.
- Rogers, L.A.** and D.E. Schindler. 2011. Scale and the detection of climatic influences on the productivity of salmon populations. *Global Change Biology* 17:2546-2558.
- Schindler, D.E., R. Hilborn, B. Chasco, C.P. Boatright, T.P. Quinn, **L.A. Rogers** and M.S. Webster. 2010. Population diversity and the portfolio effect in an exploited species. *Nature* 465:609-612.
- Moore, J.W., M. McClure, **L.A. Rogers** and D.E. Schindler. 2010. Synchronization and portfolio performance of threatened salmon. *Conservation Letters* 5:340-348.
- Schindler, D.E. and **L.A. Rogers**. 2009. Responses of Pacific salmon populations to climate variation in freshwater ecosystems. Pages 1127 – 1142 in C.C. Krueger and C.E. Zimmerman, editors. Pacific salmon: ecology and management of western Alaska's populations. Symposium 70. American Fisheries Society, Bethesda, Maryland, USA.
- Rogers, L.A.** and D.E. Schindler. 2008. Asynchrony in population dynamics of sockeye salmon in southwest Alaska. *Oikos* 117:1578-1586.
- In Review*
- Rogers, L.A.**, G. Storvik, H. Knutsen, E.M. Olsen and N.C. Stenseth. The local dynamics of coastal cod: inferring population structure from dynamic state-space models. *In review*.
- Olsen, E.M., J.A. Hutchings, **L.A. Rogers**, N.C. Stenseth and L.A. Vøllestad. Role of plasticity and evolution in Atlantic cod populations facing climate change. *Book chapter in review for inclusion in The Biology and Ecology of Atlantic Cod*.
- Laurel, B.J, D. Cote, R.S. Gregory, **L.A. Rogers**, H. Knutsen and E.M. Olsen. Recruitment signals in juvenile cod surveys depend on thermal growth conditions. *In review*.

SCIENTIFIC PRESENTATIONS

Invited oral presentations

- 2015 MonsterJam Seminar, NOAA Northwest Fisheries Science Center, Seattle, WA
- 2013 Biology Department Seminar, Karlstad University, Sweden.

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- 2012 NordForsk Top-level Research Initiative Scientific Advisory Board meeting, Copenhagen, Denmark.
- 2011 Salmon and Climate Change Symposium, American Fisheries Society Annual Meeting, Seattle, WA.
- 2010 Transatlantic Science Week, Washington, DC.
- 2010 Eco-DAS IX Symposium, Ecological Dissertations in the Aquatic Sciences, Honolulu, HI.

Contributed oral presentations (selected)

- 2015 American Fisheries Society Annual Meeting, Portland, OR
- 2015 Natural Capital Symposium, Stanford, CA
- 2013 Late Lunch Talk, Department of Biosciences, University of Oslo, Norway
- 2012 ICES/PICES Conference for Early Career Scientists, Calvia, Majorca, Spain.
- 2011 NorMER Annual Meeting, Nesbru, Norway.
- 2010 SAFS Quantitative Seminar, University of Washington, Seattle, WA.
- 2009 Centre for Ecological and Evolutionary Synthesis (CEES) Annual Meeting, Oslo, Norway.
- 2009 WA/BC American Fisheries Society Annual Meeting, Shelton, WA.
- 2009 Pacific Ecology and Evolution Conference, Bamfield, BC, Canada.
- 2007 Graduate Climate Conference, Pack Forest, WA.
- 2007 Ecological Society of America Annual Meeting, San Jose, CA.

Poster presentations

- 2015 NorMER Annual Meeting, Stockholm, Sweden.
- 2012 Academia Europaea Annual Conference, Bergen, Norway. **Invited*
- 2012 NorMER Annual Meeting, Helsinki, Finland.
- 2010 Fish and Climate Change Conference, Fisheries Society of the British Isles, Belfast, UK.
- 2005 American Fisheries Society Annual Meeting, Anchorage, AK.
- 2002 AGU/ASLO Ocean Sciences Meeting, Honolulu, HI.

LEADERSHIP AND PROFESSIONAL ACTIVITIES

Member of an international working group (NOAA/US, DFO/Canada, IMR/Norway) on forecasting recruitment dynamics in coastal cod. 2012 - present.

Conducted trainings in ecosystem services modeling and assessments. 2014 - 2015.

Organized workshops and annual meetings, coordinated interdisciplinary research initiatives, and advised on student projects as a post-doctoral member of NorMER (www.normer.org), a Nordic Centre of Excellence providing an interdisciplinary training network for PhD students. 2011 - 2014.

Selected participant in *Eco-DAS IX (Ecological Dissertations in the Aquatic Sciences)*, a symposium for top new researchers in ecological oceanography and limnology, Honolulu, HI, 2010.

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Reviewer for *Ecology*, *Ecological Applications*, *Oikos*, *Global Change Biology*, *Marine Ecology Progress Series*, *Fisheries Management and Ecology*, *ICES Journal of Marine Science*, *Deep Sea Research II*.