

Megan Stachura

MeganStachura@gmail.com

• www.MeganStachura.com

I am an environmental scientist with expertise in data management, analysis, and visualization and communication to engage broad audiences. I analyze, visualize, and communicate environmental and economic information to help people and nature thrive together.

EXPERIENCE

ECS Federal, contractor supporting NOAA Fisheries

Seattle, WA

Research Associate, March 2015 – Present

- Collaborated with stakeholders to develop a bio-economic model of regional recreational fisheries to better understand how management measures impact angler effort and fish stocks
- Developed tools (R and R Markdown scripts) to automatically generate text and tables summarizing fishing industry economic performance for stakeholders as part of a national report

EarthCorps

Seattle, WA

Puget Sound Steward, March 2016 – Present

- Restore and maintain the habitat at a site along the Duwamish River by engaging, educating, and leading community volunteers and through regular weeding, watering, planting, and monitoring

NOAA Fisheries, Office of Sustainable Fisheries, Domestic Fisheries Division

Silver Spring, MD

Sea Grant Knauss Marine Policy Fellow, February 2014 – January 2015

- Coordinated a team investigating effective strategies for managing recreational fisheries including facilitating meetings, collaborating with stakeholders, and summarizing findings
- Wrote and edited profiles of U.S. seafood species for the FishWatch website (www.fishwatch.gov) to help stakeholders make informed decisions
- Developed tools (R scripts) to automatically generate figures for a national report and analyze and visualize results from an assessment of the vulnerability of species to climate change

University of Washington, School of Aquatic and Fishery Sciences

Seattle, WA

Research Assistant, Graduate Fellow, Research Scientist, September 2010 – January 2014

- Analyzed environmental influences on the abundance of North Pacific salmon and marine fish by researching and compiling relevant biological and environmental data and developing statistical models (e.g., Bayesian hierarchical models, multivariate regression, generalized linear models)

Teaching Assistant, March 2012 – June 2012

- Planned and taught laboratory sessions, facilitated group discussions, and graded assignments for the course Climate Change Impacts on Marine Ecosystems

EDUCATION

University of Washington, School of Aquatic and Fishery Sciences

Seattle, WA

- Master of Science, March 2013
- Courses completed include decision analysis in natural resource management, salmon management, ecological modeling, multivariate statistics, ocean policy, and proposal writing

University of Miami, Rosenstiel School of Marine and Atmospheric Science

Coral Gables, FL

- Bachelor of Science, May 2010
- Majors in Marine Science and Biology, minors in Mathematics and Chemistry
- Magna cum laude, general honors, and departmental honors

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TECHNICAL SKILLS

- Extensive experience using the R programming language for data analysis and visualization
- Experience conducting GIS analysis using R, Google Earth, and ArcGIS software
- Experience with R Markdown, Matlab, and AD Model Builder
- Extensive experience using Microsoft Office, including Excel for data analysis and visualization and Access for database management
- Extensive experience in written and verbal scientific communication: authored 7 peer-reviewed journal publications and delivered over a dozen presentations to a variety of audiences
- Experience developing and maintaining a website
- Participated in trainings on planning and facilitating collaborative meetings and project design and evaluation

PUBLICATIONS

- Lowerre-Barbieri, S., G. DeCelles, P. Pepin, I. A. Catalan, B. Muhling, B. Erisman, S. X. Cadrin, J. Alós, A. Ospina- Alvarez, **M. M. Stachura**, M. D. Tringali, S. W. Burnsed, and C. B. Paris. 2017. Reproductive resilience: a paradigm shift in understanding spawner-recruit systems in exploited marine fish. *Fish and Fisheries*. doi: 10.1111/faf.12180
- Hare, J. A., W. E. Morrison, M. W. Nelson, **M. M. Stachura**, et al. 2016. A vulnerability assessment of fish and invertebrates to climate change on the Northeast U.S. Continental Shelf. *PLoS ONE*. 11(2): e0146756. doi: 10.1371/journal.pone.0146756.
- Cope, J. M., D. Sampson, A. Stephens, M. Key, P. P. Mirick, **M. M. Stachura**, T.-S. Tsou, P. Weyland, A. Berger, T. Buell, E. Council, E. J. Dick, K. H. Fenske, M. Monk, and B. T. Rodomsky. 2015. Assessments of black rockfish (*Sebastes melanops*) stocks in California, Oregon, and Washington coastal waters. Pacific Fishery Management Council, Portland, OR.
- Beaugrand, G., A. Conversi, S. Chiba, M. Edwards, S. Fonda-Umani, C. Greene, N. J. Mantua, S. A. Otto, P. C. Reid, **M. M. Stachura**, L. Stemann, and H. Sugisaki. 2015. Synchronous marine pelagic regime shifts in the Northern Hemisphere. *Philosophical Transactions of the Royal Society B: Biological Sciences*. 370(1659). doi: 10.1098/rstb.2013.0272.
- **Stachura, M. M.**, T. E. Essington, N. J. Mantua, A. B. Hollowed, M. A. Haltuch, P. D. Spencer, T. A. Branch, and M. J. Doyle. 2014. Linking Northeast Pacific recruitment synchrony to environmental variability. *Fisheries Oceanography*. 23(5): 389-408. doi: 10.1111/fog.12066.
- **Stachura, M. M.**, N. J. Mantua, and M. D. Scheuerell. 2014. Oceanographic influences on patterns in North Pacific salmon abundance. *Canadian Journal of Fisheries and Aquatic Sciences*, 71(2): 226-235. doi: 10.1139/cjfas-2013-0367.
- Nye, J. A., M. R. Baker, R. Bell, A. Kenny, K. H. Kilbourne, K. D. Friedland, E. Martino, **M. M. Stachura**, K. S. Van Houtan, and R. Wood. 2014. Ecosystem effects of the Atlantic Multidecadal Oscillation. *Journal of Marine Systems*, 133: 103-116. doi: 10.1016/j.jmarsys.2013.02.006.
- **Stachura, M. M.**, C. R. Lunsford, C. J. Rodgveller and J. Heifetz. 2012. Estimation of discard mortality of sablefish (*Anoplopoma fimbria*) in Alaska longline fisheries. *Fishery Bulletin*, 110: 271-279.
- Johnson, W. F. and **M. M. Stachura**. 2011. Creation of Glacier Bay oceanographic information products defined in protocol OC-2010.1 using legacy data covering 1993 through 2008: methods, quality levels, and exceptions. Natural Resource Data Series NPS/SEAN/NRDS—2011/130. National Park Service, Fort Collins, Colorado.