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DMAC Personnel Resume

Lauren Showalter

Project Manager

Axiom Data Science, LLC.

Phone: (251)-295-3590; Email: lauren@axiomdatascience.com

Professional Qualifications

Northern Kentucky University; Highland Heights, KY; Biology; B.S., 2005

University of Alabama; Tuscaloosa, AL; Marine Science; M.S., 2010

Appointments

2020 – Present Project Manager, Axiom Data Science, Anchorage, AK

2016 – 2020 Program Officer, National Academies of Sciences, Engineering, and Medicine, Washington, DC

2012 – 2016 Program Manager, Texas A&M University-Corpus Christi, Corpus Christi, TX

2010 – 2012 Research Technician, Dauphin Island Sea Lab, Dauphin Island, AL

2006 – 2010 Teaching Assistant, University of Alabama, Tuscaloosa, AL & Dauphin Island, AL

Relevant Publications

Keating, Kathryn Sweet, Melissa Gloekler, Nancy Kinner, Sharon Mesick, Michale Peccini, Benjamin Shorr, Lauren Showalter, and Jessica Henkel. "Coordination of long-term data management in the Gulf of Mexico: Lessons learned and recommendations from two years of cross-agency collaboration". Shore and Beach, 2020. *In Review*.

Synergistic Activities

2020 – Present: Manage various projects for Axiom Data Science including the Southeast Coastal Ocean Observing Regional Association (SECOORA), Ørsted Wind Energy ECO-PAM, and Animal Telemetry Network Data Assembly Center (ATN-DAC).

2017 – Present: Core team/organizing member of the Deepwater Horizon Long Term Data Management working group. This effort was initiated to reviewing existing data management systems, discover opportunities to advance the integration of these systems, document the availability of data for restoration planning, project implementation, and restoration monitoring efforts, and providing a platform for increased communication among the various data Gulf of Mexico entities.

2016 – 2020: Manage data activities for the Gulf Research Program an independent, science-based program that funds studies, projects, and other activities in the areas of oil systems safety, environmental resources, and human health and well being.

2012 – 2016: Lead a team of researchers, data specialists and computer system developers in the development of a data management system to store scientific data generated by Gulf of Mexico Research Initiative (GOMRI) researchers. Accessible from: <https://data.gulfresearchinitiative.org/>

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Elizabeth Dobbins

Data Scientist, Axiom Data Science, a Tetra Tech company
Phone: 907-378-7312; Email: liz@axiomdatascience.com

Professional Qualifications

University of Washington; Seattle, WA; Physical Oceanography; M.S., 1993
Eastern Washington University; Cheney, WA; Physics; B.A., 1989

Appointments

2022 – Present Data Scientist, Axiom Data Science (a Tetra Tech company), Fairbanks, AK
2018 – 2022 Environmental Data Scientist, Axiom Data Science, Fairbanks, AK
2009 – 2022 Research Scientist, College of Fisheries and Ocean Sciences, University of Alaska
Fairbanks, Fairbanks, AK
2009 Web Mapping Intern, WeoGeo, Portland, OR
1998 – 2006 Research Scientist (NOAA contractor), Joint Institute for the Study of
the Atmosphere and Ocean, University of Washington, Seattle, WA
1994 – 1997 Staff Research Associate, Integrated Biology Department, University of California
Berkeley, Berkeley, CA
1990 – 1993 Research and Teaching Assistant, Department of Oceanography, University of
Washington, Seattle, WA

Selected Publications (<https://orcid.org/0000-0002-4014-977X>)

- Fang, Y.-C., T. J. Weingartner, E. L. Dobbins, P. Winsor, H. Statscewich, R. A. Potter., et al. (2020). Circulation and thermohaline variability of the Hanna Shoal region on the northeastern Chukchi Sea shelf. *J. of Geophys. Res: Oceans*, 125, e2019JC015639. <https://doi.org/10.1029/2019JC015639>
- Weingartner, T. J., R. A. Potter, C. A. Stoudt, E. L. Dobbins, H. Statscewich, P.R. Winsor, T.D. Mudge, and K. Borg. (2017) Transport and thermohaline variability in Barrow Canyon on the Northeastern Chukchi Sea Shelf, *J. of Geophys. Res.* 122:3565–3585, <https://dx.doi.org/10.1002/2016JC012636>.
- Weingartner, T., C. Irvine, E. Dobbins, S. Danielson, L. DeSousa, B. Adams, R. Suydam, and W. Neatok. (2015) Satellite-tracked drifter measurements in the Chukchi and Beaufort Seas. Final report. U.S. Department of the Interior, Alaska Outer Continental Shelf Region Contract M11AC00001, OCS Study BOEM 2015-022.
- Weingartner, T., E. Dobbins, S. Danielson, P. Winsor, R. Potter, and H. Statscewich. (2013) Hydrographic variability over the northeastern Chukchi Sea shelf in summer-fall 2008–2010, *Continental Shelf Research*, 67:5–22, <https://dx.doi.org/10.1016/j.csr.2013.03.012>.
- Cheng, W., A. J. Hermann, K. O. Coyle, E. L. Dobbins, N. B. Kachel, and P. J. Stabeno. (2012) Macro- and micro-nutrient flux to a highly productive submarine bank in the Gulf of Alaska: A model-based analysis of daily and interannual variability, *Progress in Oceanography*, 101(1), <https://doi.org/10.1016/j.pocean.2012.01.001>.
- Dobbins, E. L., A. J. Hermann, P. Stabeno, N. A. Bond, and R. C. Steed. (2009) Modeled transport of freshwater from a line-source in the coastal Gulf of Alaska, *Deep Sea Res. Part II: Topical Studies in Oceanography*, 56(24), <https://doi.org/10.1016/j.dsr2.2009.02.004>.
- Hinckley, S., K. O. Coyle, G. Gibson, A. J. Hermann, and E. L. Dobbins. (2009) A biophysical NPZ model with iron for the Gulf of Alaska: Reproducing the differences between an oceanic HNLC ecosystem and a classical northern temperate shelf ecosystem, *Deep Sea Res. Part II: Topical Studies in Oceanography*, 56(24), <https://doi.org/10.1016/j.dsr2.2009.03.003>.
- Hickey, B. M., E. L. Dobbins, and S. E. Allen. (2003) Local and remote forcing of currents and temperature in the central Southern California Bight, *J. Geophys. Res.*, 108(3081), <https://doi.org/10.1029/2000JC000313>, C3.

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Selected Products

- Danielson, S. and E. Dobbins. (2020) Water columns properties measured by CTD sensors during seasonal cruises in the Gulf of Alaska for the Northern Gulf of Alaska LTER project, 2018 and 2019. Research Workspace. 10.24431/rw1k459, version: 10.24431_rw1k459_2020_6_15_21197.
- Danielson, S. and E. Dobbins. (2020) Ocean currents measured by R/V Sikuliaq's Shipboard Acoustic Doppler Current Profiler (SADCP) during the Northern Gulf of Alaska LTER Spring 2018 cruise. Research Workspace. 10.24431/rw1k43u, version: 10.24431_rw1k43u_2020226183832.
- Hopcroft, R., S. Danielson, and E. Dobbins. (2020) Temperature and Salinity measured by a flow-through thermosalinograph (TSG) during research cruises aboard the R/V Tiglax and R/V Woldstad for the Northern Gulf of Alaska (NGA) LTER site, 2018 and 2019. Research Workspace. 10.24431/rw1k45o, version: 10.24431_rw1k45o_2020_6_25_222626.
- Mudge, T., T. Weingartner, E. Dobbins, Shell International Exploration and Production Inc., ConocoPhillips Alaska Inc., Statoil, and Olgoonik Fairweather LLC (2017) Eastward and northward components of ocean current, temperature, salinity and ice analysis collected from industry sponsored moorings in the Chukchi Sea, Alaska from 2008-09-08 to 2016-10-13 (NCEI Accession 0164964). NOAA National Centers for Environmental Information. <https://accession.nodc.noaa.gov/0164964>.
- Weingartner, T., H. Statscewich, C. Stoudt, and E. Dobbins. (2017) Currents, Temperature, Salinity, and Sea Ice measurements from moorings in Barrow Canyon, Chukchi Sea, 2010-2015 (NCEI Accession 0160090). NOAA National Centers for Environmental Information. <https://accession.nodc.noaa.gov/0160090>.
- Weingartner, T., E. Dobbins, H. Statscewich, C. Stoudt, and Fang, Y.-C. (2017) Currents, Ice Velocity, Temperature, and Salinity from moorings around Hanna Shoal, Chukchi Sea, 2012-2014 (NCEI Accession 0163833). NOAA National Centers for Environmental Information. <https://accession.nodc.noaa.gov/0163833>.
- Dobbins, E. (2015) Surface currents and temperature data from satellite-tracked drifters in the Chukchi and Beaufort Seas from 2011-08-07 to 2014-03-06 (NCEI Accession 0126984). NOAA National Centers for Environmental Information. <https://accession.nodc.noaa.gov/0126984>

Synergistic Activities

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|----------------|---|
| 2018 – Present | Assist with ingestion of real-time environmental sensors (including configuration of quality control flags) for the Integrated Ocean Observing System (IOOS), Alaska Ocean Observing System (AOOS), Central and Northern California Ocean Observing System (CeNCOOS), Southern California Coastal Ocean Observing System (SCCOOS), and Southeast Coastal Ocean Observing Regional Association (SECOORA) |
| 2021 – Present | Developed system to calibrate raw instrument voltage to measurements of Oxygen, pH, and Chlorophyll for the SCCOOS Automated Shore Stations (SASS) |
| 2021 – 2022 | Import summary products from Imiq Hydroclimate Database to https://imiq.portal.aos.org/ |
| 2018 – 2022 | Converting oceanographic datasets from ASCII formats and spreadsheets to netCDF files, adhering to standards such as NCEI, CF, and ACDD |
| 2018 | Participant in the data science conference OceanHackWeek, Aug. 20-24, eScience Institute, University of Washington, Seattle, WA |
| 2017 – 2022 | Program Coordinator and website developer for the Northern Gulf of Alaska Long Term Ecological Research (NGA LTER) site |
| 2016 – 2017 | Authored final reports for Arctic Tracer Release Experiment (ARCTREX), Applications for Mapping Spilled Oil in Arctic Waters program (BOEM) and Ecology of Forage Fishes in the Arctic Nearshore (North Slope Borough) |
| 2014 – 2015 | Service on a committee to revise the website of the School (now College) of Fisheries |

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2008 – 2009	and Ocean Sciences, University of Alaska Fairbanks Studies toward a Graduate Certificate in Geographic Information Systems, Portland State University, Portland, OR
2004	Workshop leader with S. Hinckley, Investigating Gulf of Alaska data sets using an NPZD model. PICES 13th Annual Meeting, Honolulu, Hawai'i, 22 October.
1993 – 2022	Member of the American Geophysical Union
1992	University of Washington Extension Certificate in C programming, Seattle, WA

Graduate Advisor

Dr. Barbara Hickey, University of Washington, Seattle, WA