

## AMANDA LEA WHITMIRE | ORCID iD: 0000-0003-2429-8879

Harold A. Miller Library, Hopkins Marine Station, Stanford University

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<https://library.stanford.edu/people/thalassa>

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### PROFESSIONAL GOALS

- 1) To support excellence in research with physical and virtual library spaces and collections;
- 2) To facilitate effective stewardship and curation of information and data generated by the research community at Hopkins Marine Station (HMS);
- 3) To extend the preservation efforts of HMS archive collections to create actionable research products, thus broadening their utility and impact; and
- 4) To share the remarkable work of Hopkins researchers with our local community through meaningful engagement with diverse audiences.

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### CURRENT POSITION

#### Head Librarian & Bibliographer, Harold A. Miller Library

*Dec. 2015 – present*

Stanford Libraries

Primary responsibilities include: overall management of the Harold A. Miller Library; collection development (books, journals, data and electronic resources) in marine sciences; plan and direct curation of our unique legacy collections, including data; assist Hopkins residents in finding the information they need, procure documents not available locally or online, and provide instruction on use of physical and virtual library resources and spaces; lead the operation of our burgeoning fabrication space; provide research services, including consultations on scholarly communication and data management, sharing and curation; manage the Miller Library's web pages and Facebook presence.

#### Acting Head, Science and Engineering Resource Group

*July 2022 – present*

Stanford Libraries

Primary responsibilities include: oversight of the science and engineering branch libraries at Stanford University, including the Branner Earth Sciences Library, Terman Engineering Library, Robin Li & Melissa Ma Science Library, Harold A. Miller Library, and the David Rumsey Map Center. 11 direct reports, 30 total FTE.

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### EDUCATION

#### Oregon State University, Corvallis, Oregon

*July 2008*

*Ph.D.*, Oceanography, College of Earth, Ocean and Atmospheric Sciences

*"The spectral backscattering properties of marine particles"*, <http://hdl.handle.net/1957/9088>

#### University of California at Santa Barbara, Santa Barbara, California

*Dec. 2000*

*B.S. with honors*, Aquatic Biology, Department of Ecology, Evolution, and Marine Biology, College of Letters and Science

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### CONTINUING PROFESSIONAL EDUCATION

**Software Carpentry Instructor Training**, 2-day Workshop, [softwarecarpentry.org](http://softwarecarpentry.org)

*Feb. 2018*

**Data Carpentry**, 2-day Workshop, [datacarpentry.org](http://datacarpentry.org) [event host and participant]

*Nov. 2017*

**Data Carpentry**, 2-day Workshop, [datacarpentry.org](http://datacarpentry.org)

*June 2015*

**R Programming**, Coursera course, certificate earned with distinction

*Dec. 2014*

**Data Scientist's Toolbox**, Coursera course, certificate earned with distinction

*Dec. 2014*

**Curating & Managing Research Data for Re-Use**, Inter-university Consortium for

*Aug. 2013*

Political & Social Research (ICPSR); 5-day workshop

**Presenting Data & Information**, Edward Tufte; 1-day workshop

*July 2013*

**ARL-ACRL Institute on Scholarly Communication**, "Increasing the Effectiveness of Your Scholarly

*Apr. 2013*

Communication Program: Strategic Skills for Success," Association of Research Libraries (ARL) and the Association of College and Research Libraries (ACRL); 2-day workshop

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## PREVIOUS EXPERIENCE

<b>Assistant to the Director, Hopkins Marine Station [0.4 FTE]</b>	<i>Dec. 2015 – Aug. 2021</i>
Stanford University – Primary responsibilities included: provide general support for the Friends of Hopkins group; organize and conduct the annual Friends of Hopkins lecture series; organize tours of HMS by graduate student volunteers (approx. 40 per year); contribute to HMS social media; participate in HMS strategic planning.	
<b>Assistant Professor, Data Management Specialist, Oregon State University</b>	<i>Sept. 2012 – Nov. 2015</i>
OSU Libraries & Press	
<b>Assistant Professor, Oregon State University</b>	<i>June 2013 – Nov. 2015</i>
Graduate School	
<b>Research Associate (post-doctoral), Oregon State University</b>	<i>Jan. 2012 – Aug. 2012</i>
College of Earth, Ocean and Atmospheric Sciences, Research adviser: <i>Angelique (Angel) White</i>	
<b>Research Associate (post-doctoral), Oregon State University</b>	<i>July 2008 – Dec. 2011</i>
College of Earth, Ocean and Atmospheric Sciences, Research adviser: <i>Ricardo Letelier</i>	
<b>Graduate Research Assistant, Oregon State University</b>	<i>Sept. 2001 – July 2008</i>
College of Earth, Ocean and Atmospheric Sciences, Research adviser: <i>Timothy Cowles</i>	
<b>Research Scientist, Sequoia Scientific Inc., Bellevue, WA</b>	<i>Oct. 2004 – Aug. 2007</i>
<b>Research Technician, University of California at Santa Barbara</b>	<i>Dec. 1999 – July 2001</i>
Marine Science Institute, Research adviser: <i>James Case</i>	

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## PUBLICATIONS

### PEER-REVIEWED PAPERS

1. Soyka, Heather, Amber Budden, Viv Hutchison, David Bloom, Jonah Duckles, Amy Hodge, Matthew Mayernik, et al. "Using Peer Review to Support Development of Community Resources for Research Data Management." *Journal of EScience Librarianship* 6, no. 2 (2017). <https://doi.org/10.7191/jeslib.2017.1114>. (Open Access)
2. Conrad, Suzanna, Yasmeen Shorish, Amanda L. Whitmire, and Patricia Hswe. "Building Professional Development Opportunities in Data Services for Academic Librarians." *IFLA Journal* 43, no. 1 (2016): 0340035216678237. <https://doi.org/10.1177/0340035216678237>. (Open Access)
3. Parham, Susan Wells, Jake Carlson, Patricia Hswe, Brian Westra, and Amanda Whitmire. "Using Data Management Plans to Explore Variability in Research Data Management Practices across Domains." *International Journal of Digital Curation* 11, no. 1 (2016): 53–67. <https://doi.org/10.2218/ijdc.v11i1.423>. (Open Access)
4. Van Tuyl, Steven, and Amanda L. Whitmire. "Water, Water, Everywhere: Defining and Assessing Data Sharing in Academia." *PLoS ONE* 11, no. 2 (2016): e0147942. <https://doi.org/10.1371/journal.pone.0147942>. (Open Access)
5. White, A. E., R. M. Letelier, A. L. Whitmire, B. Barone, R. R. Bidigare, M. J. Church, and D. M. Karl. "Phenology of Particle Size Distributions and Primary Productivity in the North Pacific Subtropical Gyre (Station ALOHA)." *Journal of Geophysical Research: Oceans* 120, no. 11 (2015): 7381–99. [doi:10.1002/2015JC010897](https://doi.org/10.1002/2015JC010897). (Open Access)
6. Whitmire, A. L. "Implementing a Graduate-Level Research Data Management Course: Approach, Outcomes, and Lessons Learned." *Journal of Librarianship and Scholarly Communication* 3, no. 2. (2015): [doi:10.7710/2162-3309.1246](https://doi.org/10.7710/2162-3309.1246). (Open Access)
7. Whitmire, A. L., M. Boock, and S. C. Sutton. "Variability in Academic Research Data Management Practices: Implications for Data Services Development from a Faculty Survey." *Program: Electronic Library and Information Systems* 49, no. 4: 382–407 (2015): [doi:10.1108/PROG-02-2015-0017](https://doi.org/10.1108/PROG-02-2015-0017) (paywall). Open Access [version](#)
8. Whitmire, A. L., W. S. Pegau, L. Karp-Boss, E. Boss, and T. J. Cowles. "Spectral backscattering properties of marine phytoplankton cultures." *Opt. Express* 18, 15073-15093 (2010): [doi:10.1364/OE.17.021992](https://doi.org/10.1364/OE.17.021992). (Open Access)
9. Whitmire, A. L., R. M. Letelier, O. Ulloa, and V. Villagran. "Autonomous observations of in vivo fluorescence and backscattering in an oceanic oxygen minimum zone." *Opt. Express* 17, 21992-22004 (2009): [doi:10.1364/OE.17.021992](https://doi.org/10.1364/OE.17.021992). (Open Access)
10. Chang, G. and A. L. Whitmire. "Effects of bulk particle characteristics on backscattering and optical closure." *Opt. Express* 17, 2132-2142 (2009): [doi:10.1364/OE.17.002132](https://doi.org/10.1364/OE.17.002132). (Open Access)
11. Agrawal, Y. C., A. Whitmire, O. A. Mikkelsen, and H. C. Pottsmith. "Light scattering by random shaped particles and consequences on measuring suspended sediments by laser diffraction." *J. Geophys. Res.*, 113, C04023 (2008): [doi:10.1029/2007JC004403](https://doi.org/10.1029/2007JC004403).

12. Whitmire, A.L., E. Boss, T.J. Cowles, W.S. Pegau. "Spectral variability of particulate backscattering ratio," *Opt. Express*, 15, 7019-7031 (2007): [doi:10.1364/OE.15.007019](https://doi.org/10.1364/OE.15.007019). (Open Access)
13. Chang, G. C., K. Mahoney, A. Briggs-Whitmire, D. Kohler, C. Mobley, M. Moline, M. Lewis, E. Boss, M. Kim, W. Philpot, and T. Dickey. "The New Age of Hyperspectral Oceanography," *Oceanography*, 17(2), 22-29 (2004): [doi:10.5670/oceanog.2004.43](https://doi.org/10.5670/oceanog.2004.43). (Open Access)

### DATASETS

1. Whitmire, Amanda L. (2022). Monterey Bay phytoplankton data from the Hopkins Marine Station CalCOFI program (1954-1968). Stanford Digital Repository. Dataset. Available at <https://purl.stanford.edu/pz376rp0413>.
2. Whitmire, Amanda L. (2022). Monterey Bay zooplankton data from the Hopkins Marine Station CalCOFI program (1955-1963). Stanford Digital Repository. Dataset. Available at <https://purl.stanford.edu/nt620vn7810>.
3. Hewatt, Willis G. (1933). Data from: Ecological studies on selected marine intertidal communities of Monterey Bay. Stanford Digital Repository. Dataset. Available at <https://purl.stanford.edu/zd748qn2612>.
4. Van Tuyl, Steven, and Amanda L. Whitmire. (2015), "Data from: Water, Water Everywhere: Defining and Assessing Data Sharing in Academia." Oregon State University Libraries. Dataset. (CC-0) <http://dx.doi.org/10.7267/N9W66HPQ>.
5. Whitmire, Amanda L. (2015), "Data and code from: Variability in academic research data management practices: implications for data services development from a faculty survey," Oregon State University Libraries. Dataset. <http://dx.doi.org/10.7267/N9J1012R>. (CC-0)

### NON-REFEREED PAPERS

1. Van Tuyl, Steven, and Amanda Whitmire. 2018. "Investigation of Non-Academic Data Management Practices to Inform Academic Research Data Management." *Research Ideas and Outcomes* 4 (October): e30829. (Open Access) <https://doi.org/10.3897/rio.4.e30829>.
2. Rolando, L., Carlson, J., Hswe, P., Parham, S. W., Westra, B. and Whitmire, A. L. (2015), Data Management Plans as a Research Tool. *Bul. Am. Soc. Info. Sci. Tech.*, 41: 43-45. <http://dx.doi.org/10.1002/bult.2015.1720410510>.
3. Wright, S., Whitmire, A., Zilinski, L. and Minor, D. (2014), Collaboration and tension between institutions and units providing data management support. *Bul. Am. Soc. Info. Sci. Tech.*, 40: 18-21. <http://dx.doi.org/10.1002/bult.2014.1720400607>.
4. Whitmire, A. L. (2013), "Thoughts on 'eResearch': a Scientist's Perspective." *Journal of eScience Librarianship* 2(2): Article 3, <http://dx.doi.org/10.7191/jeslib.2013.1045>. [Commentary piece] Cited 2 times. (Open Access)
5. Sutton, Shan; Barber, David; Whitmire, A. L. (2013): Oregon State University Libraries and Press Strategic Agenda for Research Data Services. Oregon State University Libraries. <http://hdl.handle.net/1957/38794>. [White Paper]

### CURRICULA

GRAD 521 – Research Data Management. A 10-week, 2-credit graduate-level course. Careful examination of all aspects of research data management best practices. Designed to prepare students to exceed funder mandates for performance in data planning, documentation, preservation and sharing in an increasingly complex digital research environment. Open to students of all disciplines.

1. Whitmire, Amanda. "GRAD 521 Research Data Management Syllabus and Lesson Plans". figshare, April 18, 2014. <https://doi.org/10.6084/m9.figshare.1003834>
2. Whitmire, Amanda. "GRAD 521 Research Data Management Course Assignments". figshare, April 18, 2014. <https://doi.org/10.6084/m9.figshare.1003852.v1>
3. Whitmire, Amanda. "GRAD 521 Research Data Management Lectures". figshare, April 18, 2014. <https://doi.org/10.6084/m9.figshare.1003835.v2>

### OTHER PUBLICATIONS

1. Whitmire, Amanda L, Jacob Carlson, Brian Westra, Patricia Hswe, and Susan Parham. 2017. "Rubric & Related Files; The DART Project." Open Science Framework. December 21. <http://dx.doi.org/10.17605/OSF.IO/QH6AD>.
2. Whitmire, Amanda; Briney, Kristin; Nummerger, Amy; Henderson, Margaret; Atwood, Thea; Janz, Margaret; Kozlowski, Wendy; Lake, Sherry; Vandegrift, Micah; Zilinski, Lisa (2015): A table summarizing the Federal public access policies resulting from the US Office of Science and Technology Policy memorandum of February 2013. figshare. <http://dx.doi.org/10.6084/m9.figshare.1372041>

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## PROFESSIONAL MEETINGS, SYMPOSIA, AND CONFERENCES

### PRESENTATIONS TO PROFESSIONAL GROUPS

1. Whitmire, Amanda L. (2023). Digital collections, biodiversity data, and the marine science librarian. (invited) Presented at the California Academy of Sciences, 26 January 2023. Available at: PURL.

2. Whitmire, Amanda L. (2022). Collection connections: a library vignette on democratization of aquatic science knowledge. Presented at: 48th Annual Conference of the International Association of Aquatic and Marine Science Libraries and Information Centers (IAMSLIC), Montevideo, Uruguay. Stanford Digital Repository. Available at <https://purl.stanford.edu/sx116tt5458>.
3. Whitmire, Amanda L., Chris Wiley, Chenyue Jiao, Ateanna Uriri, Chris Rauch (2022). LEADING: Data Science Innovation Across Our National Digital Infrastructure. (invited) Presented at the CNI Spring 2022 Membership Meeting.
4. Whitmire, Amanda L. (2022). Collections as Data at Miller Library: a Stanford Libraries Library Bytes talk. 10 March 2022. Available at <https://www.youtube.com/watch?v=1Yq5mw8wEB8>.
5. Whitmire, Amanda L. (2022). You digitized it, but now what? Exploring computational methods for extracting biodiversity data from historical collections. Stanford Digital Repository. Presented at the International Ocean Data Conference 2022, Sides available at <https://purl.stanford.edu/mp178ym9045>, streaming video available at <https://www.youtube.com/watch?v=nB-SgZ9AI>.
6. Whitmire, Amanda L. (2021). Librarians + Wikipedia: Building skills to reduce information inequality in the aquatic sciences. Presented at: 2021 SAIL/Cyamus Joint Annual Conference. Stanford Digital Repository. Available at: <https://purl.stanford.edu/sh105rr3576>.
7. Whitmire, Amanda L. (2021). The basics of data management plans for research. (invited) Presented to the 2020/21 Pacific Northwest Aquatic Monitoring Partnership Emerging Technologies Webinar Series on 11 February 2021. Recording available on [YouTube](#).
8. Whitmire, Amanda L., 2020. "Student Work, Copyright and FERPA: How What You Don't Know Might FERP-YA." Lighting the Way : A National Forum on Archival Discovery and Delivery, February 10, 2020. Presentations. 1 vols. Stanford (Calif.), 2020. <https://purl.stanford.edu/bg405cn7261>.
9. Whitmire, A. and Engelbrecht, M. (2019). Subversive gatekeepers: Developing methods for enabling remote access to hidden collections. Stanford Digital Repository. 45th Annual Conference of the International Association of Aquatic and Marine Science Libraries and Information Centers (IAMSLIC), 2019, Port Aransas, Texas, October 21. Available at <https://purl.stanford.edu/qn973xd0977>
10. Whitmire, Amanda L. "Curating the legacy of Stanford's oceanographic work in Monterey Bay: A science journey told through our collections." (invited) American Chemical Society Silicon Valley Section, "Chemists Celebrate Earth Week" event, April 2018.
11. Whitmire, Amanda L. "Tinkering Is Fundamental: Why Open Source Electronics Are a Natural Fit in [Marine] Science Libraries." Stanford Digital Repository. Cyamus Annual Conference, Scripps Institution of Oceanography, March 2018. <https://purl.stanford.edu/cz459xn4262>.
12. Whitmire, Amanda L. "Curating a 23-Year Weekly Time-Series of Oceanographic Data in Monterey Bay, California" (invited). Presented at Stanford Libraries' *Trending*, a monthly seminar to share activities with library colleagues. September 2017.
13. Whitmire, Amanda L. "Curating a 23-Year Weekly Time-Series of Oceanographic Data in Monterey Bay, California: Lessons from the Trenches." Oral presented at the Research Data Access and Preservation Summit, Seattle, WA USA, April 19, 2017. <https://osf.io/pek5/>.
14. Whitmire, Amanda L., Heidi Imker, and Sarah Jones. "Analyzing, Interpreting, and Implementing Data Management Plans" (invited). DataONE Webinar Series, virtual, November 2016. <https://www.dataone.org/webinars/analyzing-interpreting-and-implementing-data-management-plans>.
15. Whitmire, Amanda L., Guillermina Cosulich, Jaime M. Goldman, and Kristen Labonte (2016). "The Evolution of Library Space: A Conversation about How Library Design Supports Our Scholarly Communities." Presented at the 42nd Annual Conference of the International Association of Aquatic and Marine Science Libraries and Information Centers, Merida, Yucutan, Mexico, October 2016.
16. Whitmire, Amanda L. "Analyzing DMPs to inform and empower academic librarians in providing research data support: lessons from the DART project", 11<sup>th</sup> International Digital Curation Conference, Feb. 2016 (presented as part of the workshop I co-hosted: *Supporting and reviewing Data Management Plans with Sarah Jones and Stephanie Simms*).
17. Whitmire, A. L., Patricia Hswe and Brian Westra (2015), "Data management plans as a research tool," DLF Forum, October 2015.
18. Whitmire, A. L. (2015). "Using data management plans as a research tool for improving data services in academic libraries," 41st IASSIST Annual Conference, June 2015. <http://hdl.handle.net/1957/56232>
19. Whitmire, A. L., Jake Carlson, Patricia Hswe, Susan Wells Parham, Lizzy Rolando, Brian Westra (2015). "Using assessment of NSF data management plans to enable evidence-based evolution of research data services," Research Data Access and Preservation Summit, April 2015. <http://hdl.handle.net/1957/55693>
20. Whitmire, A. L. (2015). "Promoting sustainable research practices through effective data management curricula," Association of College and Research Libraries, March 2015 <http://hdl.handle.net/1957/55478>
21. Whitmire, A. L. (2015). "Using data management plans as a research tool: an introduction to the DART Project," (invited) NISO Virtual Conference: Scientific Data Management: Caring for Your Institution and its Intellectual Wealth, February 2015. <http://www.slideshare.net/BaltimoreNISO/niso-virtual-conference-scientific-data-management-caring-for-your-institution-and-its-intellectual-wealth-44838345>
22. Zhang, H., S. Van Tuyl and A. L. Whitmire (2015). "Digital Asset Management System Assessment: Use Cases for Digital Infrastructure Re-design," Online Northwest Conference, February 2015. <http://hdl.handle.net/1957/55267>

23. Whitmire, A. L., M. Haendel (2014). "Developing data services: a tale from two Oregon universities," (invited) National Network of Libraries of Medicine, Pacific Northwest Region, PNR Rendezvous (webinar), June 2014. <http://www.slideshare.net/amandawhitmire/20140618-rml-rendezvousfinal>
24. Whitmire, A. L. (2014). "Data Management with Amanda Whitmire," (invited) ACRL-Oregon Video Hangout (webinar), May 2014.
25. Wright, S., A. L. Whitmire, L. Zilinski and D. Minor (2014). "Collaboration and tension between institutions and units providing data management support," Research Data Access and Preservation Summit 2014, March 2014. [http://www.slideshare.net/asist\\_org/rdap14-32775693](http://www.slideshare.net/asist_org/rdap14-32775693)
26. Wirz, J., A.L. Whitmire (2013). "Science is a moving target: e-science, team science, the data deluge and more," Online Northwest, Corvallis, OR.
27. Whitmire, A.L., (2006). Spectral backscattering measurements in a coastal upwelling ecosystem. (invited) HABWATCH Workshop on Real time coastal observing systems for ecosystems dynamics and harmful algal blooms, Villefranche-sur-Mer, France.

## POSTER PRESENTATIONS

1. Whitmire, Amanda L. "Rescuing CalCOFI Monterey Bay, 1951 – 1974." Stanford Digital Repository. Poster. Presented at the CalCOFI Annual Conference 2020, December 1, 2020. <https://purl.stanford.edu/jx225zq1407>.
2. Whitmire, Amanda L. "Implementing a 3D Printing Service at a Marine Biology Library." Poster presented at the International Association of Aquatic and Marine Science Libraries and Information Centers Annual Meeting, Honolulu, HI, USA, October 2017.
3. Whitmire, Amanda L. (2016). "Curating a 23-year weekly time-series of oceanographic data in Monterey Bay, California, or: how I learned to stop worrying and love the data." Stanford Digital Repository. Poster. Presented at The Rescue of Data at Risk - An RDA / CODATA Workshop. Available at: <http://purl.stanford.edu/hp802gp8515>.
4. Van Tuyl, Steve and Amanda L. Whitmire (2016). "Investigation of private industry and non-academic data management practices." Research Data Access and Preservation Summit, Seattle, WA, USA, May 2016.
5. Westra, Brian, Amanda L. Whitmire, Jake Carlson, Patricia Hswe, Susan Wells Parham, Lizzy Rolando (2015). "Data Management Plans as a Research Tool," Association of College and Research Libraries, March 2015. <http://hdl.handle.net/1957/55482>
6. Parham, Susan, Jake Carlson, Patricia Hswe, Lizzy Rolando, Brian Westra and Amanda Whitmire (2015). Development of an analytic rubric to facilitate and standardize the review of NSF data management plans. 10th [International Digital Curation Conference](#), Digital Curation Center, February 2015.
7. Whitmire, A.L. (2014). Implementing a graduate-level data information literacy curriculum at Oregon State University: approach, outcomes and lessons learned. [6th Annual University of Massachusetts & New England Area Librarian e-Science Symposium](#). <http://hdl.handle.net/1957/47005>
8. Sutton, S.C. and A.L. Whitmire. (2014). Mix and match: a model for research data services at academic libraries. [9th International Digital Curation Conference](#), Digital Curation Center. <http://hdl.handle.net/1957/46449>
9. Whitmire, A.L. (2013). Pedagogy for data management: Instructional design strategies for teaching research data management to graduate students. [Data Information Literacy Symposium](#), Purdue University, West Lafayette, IN. <http://hdl.handle.net/1957/42703>
10. Whitmire, A.L. (2013). Training the next generation: the essential role of academic libraries in educating future scientists in research data management. [ACRL Bi-annual Meeting](#), Indianapolis, IN. <http://hdl.handle.net/1957/38117>
11. Whitmire, A. L., O. Ulloa, K. Shearman, L. Rubiano-Gomez, G. Alarcon, A. Erofeev, J. Brodersen, J. A. Barth, and R.M. Letelier (2010) "Autonomous observations of *in vivo* fluorescence and particle backscattering in the eastern South Pacific oxygen minimum zone," *Eos Trans. AGU* 91(26), Ocean Sci. Meet. Suppl., Abstract BO35C-11.
12. Nahorniak, J., A. L. Whitmire, R. M. Letelier, S. Poulos, L. Fujieki and D. M. Karl (2010), "High Temporal Resolution Observations of Chlorophyll and Particle Concentration Dynamics at Station ALOHA Derived from Seaglider Optical Records," *Eos Trans. AGU*, 91(26), Ocean Sci. Meet. Suppl., Abstract IT51A-01.
13. Whitmire, A.L., R.M. Letelier, O. Ulloa, and V. Villagran, "Using autonomous profiling floats to characterize the spatial and temporal variability of marine microbes in a persistent oxygen minimum zone," *Ocean Optics XIX*, Barga, Italy, October 2008.
14. Chang, G. and A.L. Whitmire, "Particles, the backscattering ratio and their effects on remote sensing: toward solving the inverse problem in ocean optics," *Ocean Optics XIX*, Barga, Italy, October 2008.
15. Whitmire, A.L., G. Chang, A.H. Barnard, and T.J. Cowles, "Developing optical proxies as tools for coastal ecosystem monitoring," *Ocean Sciences*, Orlando, FL, March 2008.
16. Whitmire, A. L., E. Boss, W.S. Pegau, "Global trends in the spectral particulate backscattering ratio," *Ocean Optics XVIII*, Montreal, Canada, October 2006.
17. Whitmire, A.L., T.J. Cowles, and C.E. Wingard, (2006) "Contrasts in phytoplankton thin layer composition based on inherent optical properties," *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., OS36H-07.



## PARTICIPATION AT INVITATIONAL WORKSHOPS

1. Developing the Librarian Workforce for Data Science and Open Science, National Library of Medicine (NLM) of the National Institutes of Health (NIH), Bethesda, MD, April 2019.
2. The Rescue of Data at Risk - An RDA / CODATA Workshop, Boulder, CO, 2016.
3. National Science Foundation EarthCube End-User Workshop: Articulating Cyberinfrastructure Needs of the Ocean Ecosystem Dynamics Community, Woods Hole, MA, October 2013.
4. University of Maine and Oregon State University Phytoplankton Scattering Workshop, May 2004.
5. Patuxet River Naval Air Station Optical Scattering Workshop, Patuxet, MD, June 2002.

## GRANT AND CONTRACT SUPPORT

### PREVIOUS GRANTS

#### Global Biodiversity Information Facility (GBIF), Capacity Enhancement Support Programme, 2022-2023

*Co-Investigator*

€15,703

[‘Expanding the network: Bringing marine research stations and library collections into the data-sharing community’](#)

Collaborators: David Bloom, Abby Benson, Michelle Koo

#### Institute of Museum and Library Services, National Leadership Grant 2013-2017

*Principle Investigator*

\$155,464

‘Analysis of data management plans as a means to inform and empower university librarians in providing research data support’; <https://osf.io/kh2y6/>

Collaborators: Jacob Carlson, Patricia Hswe, Susan Wells-Parham, Lizzy Rolando, Brian Westra

### RESEARCH FELLOWSHIPS AND ACADEMIC SCHOLARSHIPS

#### LIS Education and Data Science Integrated Network Group (LEADING) Fellowship, 2021

#### National Sea Grant, Industry Fellowship, 2005-2007

\$72,000

‘Developing optical proxies as tools for coastal ecosystem monitoring’

Collaborators: T. J. Cowles, G. S. Chang, WET Labs, Inc. (industry partner)

#### Department of Defense, National Defense Science and Engineering Graduate Fellowship 2002-2005

\$72,000

#### National Aeronautics and Space Administration, Oregon Space Grant Fellowship 2001

\$6,000

#### Frank M. Doyle Foundation, Inc. Scholarship, 1997-2000

\$26,000

## AWARDS

#### Oregon State University, Robert Lundeen Library Faculty Development Award, 2015

\$2250

“Investigation of private industry and non-academic data management practices,” with Steven Van Tuyt (PI)

#### Oregon State University, Robert Lundeen Library Faculty Development Award, 2013

\$2850

Awarded to attend a workshop titled “Curating and Managing Research Data for Re-Use” at the Inter-university Consortium for Political and Social Research (ICPSR). May 2013.

## REFEREE

Data Science Journal; Science & Technology Libraries; Journal of eScience Librarianship; Purdue University Press; Eos; International Journal on Digital Libraries; Intersect (Stanford Undergraduate Journal of Science, Tech, and Society)

## INSTRUCTIONAL SUMMARY

### CREDIT COURSES

Research Data Management (GRAD521), 2-credits

*W14 (11), W15 (14)*

<b>Responsible Conduct of Research</b> (GRAD520), 1-credit, recurring guest lecture	<i>W14, Sp15, Fa15</i>
<b>Introduction to Oceanography</b> (OC331), teaching assistant, presented 7 lectures	<i>Fall 2003</i>
<b>Explore the Deep: Geology of the World's Oceans</b> (OC103), teaching assistant	<i>Spring 2003</i>

## OUTREACH ACTIVITIES

<b>OSU STEM Academy</b> , Advocates for Women in Science, Engineering, and Math (AWSEM) Club for Girls. Presentation, "Information Evaluation and Visualization" (with Uta Hussong-Christian), followed by hands-on activity on topographic maps. Audience: 24 middle school (day 1) and 12 high school (day 2) girls.	<i>Feb. 2014</i>
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## SERVICE

<b>Member</b> , National Center for Ecological Analysis and Synthesis, <a href="#">Environmental Data Science Summit</a> RCN	<i>June 2021 – pres.</i>
<b>Regional Group Representative</b> , <a href="#">Cyamus</a> Regional Group of the International Association of Aquatic and Marine Science Libraries and Information Centers	<i>Sept. 2021 – Dec. 2023</i>
<b>Member-at-large</b> , IAMSLIC Aquatic Commons Repository Board	<i>2016 – present</i>
<b>Aquatic Commons Repository Evaluation team</b> , IAMSLIC	<i>2019 – 2020</i>
<b>Member</b> , DataONE Community Engagement and Outreach Working Group	<i>May 2016 – Dec. 2021</i>
<b>Secretary</b> , Cyamus Regional Group of the International Association of Aquatic and Marine Science Libraries & Information Centers (IAMSLIC)	<i>2016 – 2018</i>
<b>Editor</b> , e-Science Portal for New England Librarians, Data Information Literacy section	<i>Jan. 2014 – Dec. 2017</i>
<b>Board Member</b> , OSU Institutional Review Board	<i>July 2015 – August 2015</i>
<b>Member</b> , EarthCube Science Standing Committee	<i>June 2014 – Dec. 2015</i>

## WORKSHOPS DEVELOPED & PRESENTED

- Whitmire, Amanda L. (*invited*; Feb. 2017) Caltech Library Research Data Services Workshop. Facilitated a two-day workshop for science liaisons as part of an effort to mature research data services at Caltech Library.
- Whitmire, Amanda L., Jake Carlson, Susan Wells Parham, and Brian Westra (April 2017). Building and Utilizing Rubrics for Assessment of Data Management Plans. A workshop in support of our IMLS grant project.
- Whitmire, Amanda L. (*invited*; June 2015) Northwest 5 Consortium (NW5C) Data Curation Workshop. Prepared a two-day workshop for NW5C members as a means to provide professional development in the area of offering research data services.  
<http://ir.library.oregonstate.edu/concern/defaults/sx61dq99g>
- Shorish, Yasmeen, Suzanna Conrad, Patricia Hswe and Amanda L. Whitmire (April 2015). "Getting Down to Brass Tacks – Practical Approaches for Developing Data Management Services," Association of College and Research Libraries, March 2015.

## COMMITTEES

<b>Stanford Libraries AI Steering Group</b> , Stanford Libraries	<i>2020 – present</i>
<b>Stanford Digital Repository (SDR) Steering Group</b> , Stanford Libraries	<i>2020 – present</i>
<b>Stanford Digital Repository (SDR) Service Team</b> , Stanford Libraries	<i>2017 – present</i>
<b>Curriculum Committee</b> , OSU Library Faculty Association (LFA)	<i>July 2013-Nov. 2015</i>
<b>Data Security Subcommittee</b> , OSU Institutional Review Board	<i>June 2013-July 2014</i>
<b>Seminar Series Coordinator</b> , OSU LFA	<i>2013 - 2014</i>
<b>Faculty Research Dissemination Task Force</b> (Chair), OSU LFA	<i>Apr. 2013-Nov. 2015</i>
<b>Poster Gallery Implementation Task Force</b> , OSU LFA	<i>Dec. 2012-Nov. 2015</i>
<b>Metadata Working Group</b> , OSU Libraries	<i>May 2013-Nov. 2015</i>
<b>Awards Committee</b> , OSU Libraries	<i>2013</i>
<b>Science Resources: Discovery &amp; Access Committee</b> Association of College and Research Libraries, Science and Technology Section	<i>July 2013-June 2015</i>

## PROFESSIONAL ASSOCIATIONS

Cyamus, Pacific regional group of the International Association of Aquatic and Marine Science Libraries & Information Centers (IAMSLIC) – Member	<i>2016-pres.</i>
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International Association of Aquatic and Marine Science Libraries & Information Centers (IAMSLIC) – Member	2016-pres.
American Library Association	2013-2015, 2022
Member of the Digital Curation Interest Group	
Association of College and Research Libraries (ACRL)	2013-2015, 2022
Member of the Science & Technology Section	
Member of the University Libraries Section	
Oregon Library Association	2013-2015
Member of ACRL-Oregon	
The Oceanography Society	2003-present
American Association of University Women	2013-2017