

AMANDA L. WHITMIRE

• she/her/hers •

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CURRENT POSITIONS

Leland Stanford Junior University, Stanford Libraries

Head Librarian & Bibliographer, Harold A. Miller Library Dec. 2015 – present

Promotion to Senior Librarian, the highest professional rank for librarians at Stanford Dec. 2023

Primary responsibilities include: overall management of the Harold A. Miller Library; collection development (books, journals, data and other electronic resources) in marine sciences; plan and direct curation of our unique legacy collections, including historical archives and 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 makerspace; provide research services, including consultations on scholarly communication and data management, sharing and curation.

Leland Stanford Junior University, Stanford Libraries

Head, Science and Engineering Resource Group Aug. 2022 – present

Began as Acting Head and transitioned to Head. Primary responsibilities include oversight of the science and engineering branch libraries at Stanford University (Branner Earth Sciences Library, Terman Engineering Library, Robin Li & Melissa Ma Science Library, Harold A. Miller Library, and the David Rumsey Map Center). 6 direct reports, 29 total FTE.

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

CONTINUING PROFESSIONAL EDUCATION

Software Carpentry Instructor Training, 2-day Workshop, softwarecarpentry.org

Feb. 2018

Data Carpentry, 2-day Workshop, datacarpentry.org [event host and participant]

Nov. 2017

Data Carpentry, 2-day Workshop, 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
Political & Social Research (ICPSR); 5-day workshop

Aug. 2013

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

PREVIOUS EXPERIENCE

Assistant to the Director, Hopkins Marine Station [0.4 FTE]	Dec. 2015 – Aug. 2021
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.	
Assistant Professor, Data Management Specialist, Oregon State University	Sept. 2012 – Nov. 2015
OSU Libraries & Press	
Assistant Professor, Oregon State University	June 2013 – Nov. 2015
Graduate School (courtesy)	

PUBLICATIONS

PEER-REVIEWED PAPERS (SELECTED)

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 ESscience 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. <http://dx.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): <http://dx.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): <http://dx.doi.org/10.1108/PROG-02-2015-0017> (paywall). Open Access version: <https://ir.library.oregonstate.edu/concern/articles/ht24wm21w>

DATASETS

1. Whitmire, Amanda L, Camille Pagniello, and Melissa Tabbarah. "Data from: 'Hydrographic Data from the Area of the Monterey Submarine Canyon, 1951-1955 : Final Report, July 30, 1964.'" Stanford Digital Repository, August 2023. <https://doi.org/10.25740/gb878nx4650>. (CC 0)
2. Whitmire, A. and Tabbarah, M. (2023). Data from: Ecological studies on selected marine intertidal communities of Monterey Bay. Stanford Digital Repository. Available at <https://doi.org/10.25740/zd748qn2612>. (CC 0)
3. 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>. (CC 0)
4. 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>. (CC 0)
5. 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>.

6. 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]

OTHER PUBLICATIONS

1. Whitmire, Amanda L. 2023. Position Statements -> Collections as Data: State of the field and future directions : Community-owned infrastructure and collections as data praxis, p. 42–44. Zenodo: <https://doi.org/10.5281/zenodo.7897735>.
2. Whitmire, Amanda L. 2017. Collections as Data Facets : CalCOFI Hydrobiological Survey of Monterey Bay. Always Already Computational - Collections as Data. <https://collectionsasdata.github.io/facet3/>
3. 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>.

PROFESSIONAL MEETINGS, SYMPOSIA, AND CONFERENCES

PRESENTATIONS TO PROFESSIONAL GROUPS

1. Whitmire, Amanda (2024). Transforming archival collections for research use: a case study with the Stanford Oceanographic Expeditions. [oral presentation]. 50th Annual Conference of the International Association of Aquatic and Marine Science Libraries and Information Centers (IAMSLIC), Alexandria, Egypt.
2. Whitmire, Amanda. (2024). Friend of the Sea Otter: Curating the Judson Vandevere Archive. [oral presentation]. 2024 SAIL/Cyamus Joint Annual Conference , Ocean Springs, MS, USA. Stanford Digital Repository. Available at <https://doi.org/10.25740/rj345tn7634>.
3. Whitmire, Amanda (2023). A needle in a haystack: Using a large language model to aid in the identification of species occurrences in unpublished student research reports. [oral presentation]. 49th Annual Conference of the International Association of Aquatic and Marine Science Libraries and Information Centers (IAMSLIC), British Columbia, Canada. Stanford Digital Repository. Available at <https://purl.stanford.edu/jv039vn8249>.
4. 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: <https://purl.stanford.edu/hr230rq2696>. Recording of talk posted on the Cal Academy YouTube channel: <https://www.youtube.com/watch?v=WSFeRXaGIP8>
5. 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>.

6. Coleman, N., Engle, C., Broadwell, P., Hill, J., Nelson, J., and Whitmire, A. (2022). Concierge 70: AI for Librarians. Stanford Digital Repository. Available at <https://purl.stanford.edu/sc999wn4049>.
7. 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.
8. 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>.
9. 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=v_nB-SgZ9AI.
10. 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>.
11. 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: <https://www.youtube.com/watch?v=02EJmeNQIDk&t=349s>
12. 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>.
13. 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>
14. 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.
15. 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>.
16. 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.
17. 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/pekc5/>.
18. 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>.
19. 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.
20. Whitmire, Amanda L. "Analyzing DMPs to inform and empower academic librarians in providing research data support: lessons from the DART project", 11th 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).
21. Whitmire, A. L., Patricia Hswe and Brian Westra (2015), "Data management plans as a research tool," DLF Forum, October 2015.

22. 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>
23. 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>
24. 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>
25. 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>

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. <https://doi.org/10.25740/xf227mk1917>.
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>

PARTICIPATION AT INVITATIONAL WORKSHOPS

1. Collections as Data: State of The Field and Future Directions, Internet Archive Canada, Vancouver, Canada, April 2023. <https://collectionsasdata.github.io/part2whole/recap/>.
2. 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.
3. The Rescue of Data at Risk - An RDA / CODATA Workshop, Boulder, CO, 2016.

GRANT AND CONTRACT SUPPORT

GRANTS & AWARDS

David C. Weber Librarian's Research Fund, 2023-2024	\$10,000
Co-Lead, 'Building a foundation for natural language modeling of marine science research reports'	
Collaborator: Nicole Coleman	
making@stanford Pilot Grant, 2022-2024	\$40,000
Co-Lead, 'making@StanfordLibraries'	
Collaborators: Quinn Dombrowski, Zac Painter	
Global Biodiversity Information Facility (GBIF), Capacity Enhancement Support Programme, 2022-2023	€15,703
Co-Investigator, 'Expanding the network: Bringing marine research stations and library collections into the data-sharing community'. https://www.gbif.org/project/CESP2022-009/expanding-the-network-bringing-marine-research-stations-and-library-collections-into-the-data-sharing-community	
Collaborators: David Bloom (VertNet), Abby Benson (OBIS/USGS), Michelle Koo (UC Berkeley)	
Institute of Museum and Library Services, National Leadership Grant, 2013-2017	\$155,464
Principle Investigator, '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

REFeree

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

SERVICE

Member , National Center for Ecological Analysis and Synthesis, Environmental Data Science Summit RCN	June 2021 – pres.
Regional Group Representative , Cyamus Regional Group of the International Association of Aquatic and Marine Science Libraries and Information Centers	Sept. 2021 – pres.
Member-at-large , IAMSILIC Aquatic Commons Repository Board	2016 – present
Aquatic Commons Repository Evaluation team , IAMSILIC	2019 – 2020
Member , DataONE Community Engagement and Outreach Working Group	May 2016 – Dec. 2021
Secretary , Cyamus Regional Group of the International Association of Aquatic and Marine Science Libraries & Information Centers (IAMSILIC)	2016 – 2018
Editor , e-Science Portal for New England Librarians, Data Information Literacy section	Jan. 2014 – Dec. 2017

WORKSHOPS DEVELOPED & PRESENTED

1. 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.
2. 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.
3. 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>
4. 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

making@stanford Making Council	<i>Dec. 2022 - present</i>
Stanford Digital Repository (SDR) Steering Group , Stanford Libraries	<i>2020 – present</i>
Stanford Digital Repository (SDR) Service Team , Stanford Libraries	<i>2017 – present</i>
Stanford Libraries AI Steering Group , Stanford Libraries	<i>2020 – 2022</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>
International Association of Aquatic and Marine Science Libraries & Information Centers (IAMSLIC) – Member	<i>2016-pres.</i>
American Library Association Member of the Digital Curation Interest Group	<i>2013-2015, 2022 – present</i>
Association of College and Research Libraries (ACRL) Member of the Science & Technology Section	<i>2013-2015, 2022</i>
Member of the University Libraries Section	<i>2013-2017</i>