Hao Ye

CONTACT INFORMATION

Health Science Center Libraries
University of Florida
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Gainesville FL 32610-0206 USA

E-mail: haoye@ufl.edu
WWW: https://haoye.us
GitHub: https://github.com/ha0ye

http://scholar.google.com/citations?user=8hToXlwAAAAJ&hl=en

RESEARCH INTERESTS

Open Science, Computational Workflows, Communities of Practice, Time Series, Forecasting, Ecosystem Stability/Resilience, Dynamic Systems, Causal Inference

EDUCATION

Ph.D., Oceanography, University of California, San Diego	2015
M.S., Oceanography, University of California, San Diego	2011
M.A., Psychology, University of California, San Diego	2007
B.S., Computer Science, California Institute of Technology	2006

EMPLOYMENT

University of Florida
Reproducibility Librarian 2020 - present

University of Florida
Postdoctoral Associate 2017 - 2020

University of California, San Diego
Postdoctoral Scholar 2015 - 2017

PUBLICATIONS

2021 Diaz, R.D., **Ye, H.**, and S.K.M. Ernest. Empirical abundance distributions are more uneven than expected given their statistical baseline. *Ecology Letters* [forthcoming]

2021, Senyondo H., McGlinn, D.J., Sharma P., Harris, D.J., **Ye, H.**, Taylor, S.D., Ooms, J., Rodríguez-Sánchez F., Ram, K., Pandey, A., Bansal, H., Pohlman, M., and E.P. White. Rdataretriever: R Interface to the Data Retriever. *Journal of Open Source Software* **6**: 2800. https://doi.org/10.21105/joss.02800

2020, Chang, C.W., **Ye, H.**, Miki, T., Deyle, E.R., Souissi, S., Anneville, O., Adrian, R., Chiang, Y.R., Ichise, S., Kumagai, M., Matsuzaki, S.S., Shiah, F.K., Wu, J.T., Hsieh, C.H., and G. Sugihara. Long-term warming destabilizes aquatic ecosystems through weakening biodiversity-mediated causal networks. *Global Change Biology* **26**: 6413-6423.

2020 (preprint), Ernest, S.K.M., Yenni, G.M., Allington, G., Bledsoe, E.K., Christensen, E.M., Diaz, R.M., Geluso, K., Goheen, J.R., Guo, Q., Heske, E., Kelt, D., Meiners, J.M., Munger, J., Restrepo, C., Samson, D.A.,

Schutzenhofer, M.R., Skupski, M., Supp, S.R., Thibault, K., Taylor, S., White, E., **Ye, H.**, Davidson, D.W., Brown, J.H. and T.J. Valone. The Portal Project: a long-term study of a Chihuahuan desert ecosystem *bioRxiv* https://doi.org/10.1101/332783

2019, Pennekamp, F., Iles, A., Garland, J., Brennan, G„ Brose, U., Gaedke, Ursula, J., Ute, K., P., Matthews, B., Munch, S., Novak, M., Palamara, G. M., Rall, B., Rosenbaum, B., Tabi, A., Ward, C., Williams, R., **Ye, H.**, and O. Petchey. The intrinsic predictability of ecological time series and its potential to guide forecasting. *Ecological Monographs* **89**: e01359.

2019, Christensen, E.M., Yenni, G.M., **Ye, H.**, Simonis, J.L., Bledsoe, E.K., Diaz, R., Taylor, S.D., White, E.P., and S.K.M. Ernest. portalr: an R package for summarizing and using the Portal Project Data. *Journal of Open Source Software* **4**: 1098. https://doi.org/10.21105/joss.01098

2018, Sugihara, G., Criddle, K.R., McQuown, M., Giron-Nava, A., Deyle, E., James, C., Lee, A., Pao, G., Saberski, E., **Ye, H.**. Comprehensive incentives for reducing Chinook salmon bycatch in the Bering Sea walleye Pollock fishery: Individual tradable encounter credits. *Regional Studies in Marine Science* **22**: 70-81.

2018, Deyle, E., Schueller, A., **Ye, H.**, Pao, G. M., and G. Sugihara. Ecosystem-based forecasts of recruitment in two menhaden species. *Fish and Fisheries* **19**: 769-781.

2018, Ushio, M., Hsieh, C.H., Masuda, R., Deyle, E., **Ye, H.**, Chang, C.W., Sugihara, G., and M. Kondoh. Fluctuating interaction network and time-varying stability of a natural fish community. *Nature* **554**: 360-363.

2018, Tsonis, A.A., Deyle, E.R., **Ye, H.**, and G. Sugihara. Convergent Cross Mapping: Theory and an Example. In: Tsonis A. (eds) *Advances in Nonlinear Geosciences*: 587-600. Springer, Cham.

2017, Giron-Nava, A., James, C., Johnson, A., Dannecker, D., Kolody, B., Lee, A., Nagarkar, M., Pao, G., **Ye, H.**, Johns, D.G., and G. Sugihara. Quantitative argument for long-term ecological monitoring. *Marine Ecology Progress Series* **572**: 269-274.

2017, Sugihara, G., Deyle, E.R., and **H. Ye.** Reply to Baskerville and Cobey: Misconceptions about causation with synchrony and seasonal drivers *Proceedings of the National Academy of Sciences* **114**: E2272-E2274.

2017, McGowan, J.A.*, Deyle, E.R.*, **Ye, H.***, Carter, M.L., Perretti, C.T., Seger, K.D., de Verneil, A., and G. Sugihara*. Prediction of coastal algal blooms in Southern California. *Ecology* **98**: 1419-1433. (* = co-first authors)

2017, Storch, L.S., Glaser, S.M., **Ye, H.**, and A.A. Rosenberg. Stock assessment and end-to-end ecosystem models alter dynamics of fisheries data. *PLOS ONE* **12**: e0171644.

2016, **Ye, H.**, and G. Sugihara. Information leverage in interconnected ecosystems: Overcoming the curse of dimensionality. *Science* **353**: 922-925.

2015, **Ye, H.**, Sugihara, G., Deyle, E.R., May, R.M., Swanson, K., and A.A. Tsonis. Reply to Luo et al.: Robustness of causal effects of galactic cosmic rays on interannual variation in global temperature. *Proceedings of the National Academy of Sciences* **112**: E4640-4641.

2015, **Ye, H.**, Deyle, E.R., Gilarranz, L.J., and G. Sugihara. Distinguishing time-delayed causal interactions using convergent cross mapping. *Scientific Reports* **5**: 14750.

2015, van Nes E.H., Scheffer, M., Brovkin, V., Lenton, T.M., **Ye, H.**, Deyle, E., and G. Sugihara. Causal feedbacks in climate change. *Nature Climate Change* **5**: 445-448.

2015, Clark, A.T., **Ye, H.**, Isbell, F., Deyle, E.R., Cowles, J., Tilman, D., and G. Sugihara. Spatial 'convergent cross mapping' to detect causal relationships from short time-series. *Ecology* **96**: 1174-1181.

2015, **Ye, H.**, Sugihara, G., Hsieh, C.H., Glaser, S.M., Grant, S.C.H., Richards, L.J., Schnute, J.T., and R.J. Beamish. Equation-free mechanistic ecosystem forecasting using empirical dynamic modeling. *Proceedings of the National Academy of Sciences* **112**: E1569-E1576.

2015, **Ye, H.**, Deyle, E.R., and G. Sugihara. Predicting the future in a nonlinear world. *CalCOFI Reports* **56**: 88-91.

2014, Liu, H., Fogarty, M.J., Hare, J.A., Hsieh, C.H., Glaser, S.M., **Ye, H.**, Deyle, E., and G. Sugihara. Modeling dynamic interactions and coherence between marine zooplankton and fishes linked to environmental variability. *Journal of Marine Systems* **131**: 120-129.

2014, Glaser, S.M., **Ye, H.**, and G. Sugihara. A nonlinear, low data requirement model for producing spatially-explicit fishery forecasts. *Fisheries Oceanography* **23**: 45-53.

2014, Glaser, S.M., Fogarty, M.J., Liu, H., Altman, I., Hsieh, C.H., Kaufman, L., MacCall, A.D., Rosenberg, A.A., **Ye, H.**, and G. Sugihara. Complex dynamics may limit prediction in marine fisheries. *Fish and Fisheries* **15**: 616-633.

2013, Deyle, E., Fogarty, M., Hsieh, C.H., Kaufman, L., MacCall, A., Munch, S., Perretti, C., **Ye, H.**, and G. Sugihara. Predicting climate effects on Pacific sardine. *Proceedings of the National Academy of Sciences* **110**: 6430-6435.

2012, Sugihara, G., May, R., **Ye, H.**, Hsieh, C.H., Deyle, E., Fogarty, M., and S. Munch. Detecting causality in complex ecosystems. *Science* **338**: 496-500.

2011, Sugihara, G., Beddington, J., Hsieh, C.H., Deyle, E., Fogarty, M., Glaser, S.M., Hewitt, R., Hollowed, A., May, R.M., Munch, S.B., Perretti, C., Rosenberg, A.A., Sandin, S., and **H. Ye** Are exploited fish populations stable? *Proceedings of the National Academy of Sciences* **108**: E1224-E1225.

2009, Sugihara, G. and **H. Ye** Cooperative network dynamics. *Nature* **458**: 979-980. 2011, Glaser, S.M., **Ye, H.**, Maunder, M.N., MacCall, A.D., Fogarty,

M.J., and G. Sugihara. Detecting and forecasting complex nonlinear dynamics in spatially-structured catch-per-unit-effort time series for North Pacific albacore. *Canadian Journal of Fisheries and Aquatic Sciences* **68**: 400-412.

2009, Kilcik, A., Anderson, C.N.K., Rozelot, J.P., **Ye, H.**, Sugihara, G. and A. Ozguc. Nonlinear prediction of solar cycle 24. *The Astrophysical Journal* **693**: 1173-1177.

2006, Changizi, M.A., Zhang, Q., **Ye, H.** and S. Shimojo. The structures of letters and symbols throughout human history are selected to match those found in objects in natural scenes. *The American Naturalist* **167**: E117-139.

Manuscripts

Phillips, M.A., **Ye, H.**, and E.K. Bledsoe. An Introduction to Ally Skills for Natural History Collections Professionals. *Journal of Natural Science Collections* [in review]

Chang, C.W., Miki, T., **Ye, H.**, Souissi, S., Adrian, R., Anneville, O., Be'eri-Shlevin, Y., Chiang, Y.R., Feuchtmayr, H., Ichise, S., Kagami, M., Kumagai, M., Matsuzaki, S.I., Nõges, P., Rogora, M., Shiah, F.K., Thackeray, S.J., Widdicombe, C.E., Wu, J.T., Zohary, T., Hsieh, C.H. Causal networks of phytoplankton diversity and production are modulated by environmental context. *Nature Communications*. [in review]

Honors and Awards

Moore Foundation - *Data Fellow* 2017 - 2020

SIO - *E.A. Frieman Director's Prize* 2015

SIO - *E.W. Fager Memorial Award* 2014

World Conference on Natural Resource Modeling - *Student Award* 2010

Grants

2019, NSF DEB 1929730 - $637,157 (senior personnel; PI: Morgan Ernest)

2017, NSF DEB 1655203 - $407,000 (senior personnel; PI: George Sugihara)

2017, NSF ABI 1660584 - $658,634 (senior personnel; PI: George Sugihara)

2014, Lenfest Ocean Program 00028335 - $337,100 (senior personnel; PI: George Sugihara)

2014, US DOD SERDP 15 RC-2509 - $817,046 (senior personnel; PI: George Sugihara)

2010, NSF Graduate Research Fellowship - $125,000

Teaching Qualifications

Trainer, The Carpentries [in progress]
Trainer Training (virtual) Summer 2021

Certified Instructor, The Carpentries
Software Carpentry Instructor Training March 5-6 2018

UC Learning Certificate
Teaching + Learning at the College Level Winter 2017

UCSD Teaching + Learning Commons

Teaching Experience

University of Florida

Co-instructor, credit-bearing class
GMS 5909 Fall 2020
Finding Biomedical Research Information and Communicating Science
Instructors: Michele R. Tennant, Mary E. Edwards, Margaret Ansell, and **Hao Ye**

Guest lecturer, credit-bearing class
BME 6938 Spring 2021
Multimodal Data Mining
Class session: Github practices for data science April 16, 2021
Instructor: Ruogu Fang

GMS 7877 Spring 2021
Responsible Conduct of Biomedical Research
Class session: Rigor & Reproducibility April 6, 2021
Instructor: Wayne T. McCormack

LAS 6292 Spring 2021
TCD (Tropical Conservation & Development) Research Methods: Data Collection & Management
Class session: OpenRefine February 19, 2021
Instructor: Emilio M. Bruna

UF Research Summer Seminar Series Summer 2020
Research Integrity and the Responsible Conduct of Research
Class session: Reproducibility & Replicability August 4, 2020
Organizer: Michelle Leonard

MDT 7090 Summer 2020
Discovery Pathways and MSRP
Class session: Rigor & Reproducibility (with Melissa Rethlefsen)
Instructors: Scott Berceli & Gregory Schultz

Instructor, HSCL standalone workshops
An Introduction to Writing Reproducible Manuscripts Using RMarkdown April 13, 2021
Data Cleaning with OpenRefine March 30, 2021
Using GitHub for Collaboration March 16, 2021
A Friendly Introduction to GitHub for Project Version Control March 2, 2021
An Introduction to Writing R Packages February 16, 2021
Writing Reusable and Modular Code February 2, 2021
Data Organization in Spreadsheets January 19, 2021
An Introduction to Writing Reproducible Manuscripts Using RMarkdown October 27, 2020
Data Cleaning with OpenRefine October 6, 2020
Using GitHub for Collaboration September 15, 2020
A Friendly Introduction to GitHub for Project Version Control September 8,

2020
How to Use the UF VPN to Access Library Resources August 24, 2020
Data Organization in Spreadsheets August 19, 2020
An Introduction to Writing Reproducible Manuscripts Using RMarkdown July 22, 2020
A Friendly Introduction to GitHub for Project Version Control July 9, 2020
Learn this One Weird Trick to Share and Publish Research Work [That Isn't a Paper] June 24, 2020
Data Organization with Spreadsheets and R June 9, 2020

Instructor, Data/Software Carpentry Workshops
Intro to R September 28-29, 2020
R for Social Scientists February 10-11 2020
Version Control with Git August 15-16 2018
Data Analysis and Visualization in R for Ecologists June 25-26 2018

Helper, Data/Software Carpentry Workshops
R, the Unix Shell, and Git February 11-12, 2019
R, the Unix Shell January 22-23 2018

University of California, San Diego

Instructor
Reproducible Research in Ocean Biosciences Spring 2017
(https://github.com/Open-Data-Science-at-SIO/RRROBOTS)

Intro. to Data Visualization Winter 2017
(https:
//github.com/Open-Data-Science-at-SIO/Intro-Data-Viz-Winter-2017)

Helper, Software Carpentry Workshops
The Unix Shell May 23, 2017

Teaching Assistant
Psych 60 (Intro to Statistics) Fall 2006, Summer 2007, Summer 2008
Psych 102 (Sensation and Perception) Winter 2008
Psych 138 (Sound and Music Perception) Spring 2008

California Institute of Technology

Teaching Assistant
CS 1 (Intro to Computer Programming) Fall 2003, Fall 2004, Fall 2005

Miscellaneous

Instructor, Mini-Workshop March 30, 2021
README tips to make your project more approachable
Collaborations Workshop 2021, Software Sustainability Institute

Instructor, Ally Skills Workshop February 18, 2021
Pacific Ecology and Evolution Conference

Instructor, Ally Skills Workshop October 26, 2020
University of Florida

Instructor, Ally Skills Workshop October 14, 2019
University of Florida

Instructor, Software Carpentry Workshop January 15-16 2019
R for Reproducible Scientific Analysis
University of Minnesota

Workshop Instructor November 15, 2018
A Hands-on Tutorial in Empirical Dynamic Modeling and Convergent Cross Mapping
NOAA National Marine Fisheries Service, Southwest Fisheries Science Center (Santa Cruz)

Workshop Instructor August 9, 2015
A Hands-on Tutorial in Empirical Dynamic Modeling and Convergent Cross Mapping
Ecological Society of America Annual Meeting

Software Packages

feasiblesads https://github.com/diazrenata/feasiblesads
Contributor http://doi.org/10.5281/zenodo.4710750

MATSS https://github.com/weecology/MATSS
Author https://doi.org/10.5281/zenodo.3333008

rEDM https://github.com/ha0ye/rEDM
Author https://doi.org/10.5281/zenodo.596502

portalR https://github.com/weecology/portalr
Author https://doi.org/10.5281/zenodo.1429290

LDATS https://github.com/weecology/LDATS
Contributor https://doi.org/10.5281/zenodo.3286617

portalcasting https://github.com/weecology/portalcasting
Contributor https://doi.org/10.5281/zenodo.3332973

rdataretriever https://github.com/ropensci/rdataretriever
Contributor https://doi.org/10.5281/zenodo.4314115

RainCloudPlots https://github.com/RainCloudPlots/RainCloudPlots
Contributor https://doi.org/10.5281/zenodo.1402958

Open Educational Resources

2021, **H. Ye** . An Introduction to Writing Reproducible Manuscripts Using RMarkdown (Version v1.1.1). Zenodo. http://doi.org/10.5281/zenodo.3958316

2021, **H. Ye**. Collaborations Workshop 2021 Mini-Workshop: README tips to make your project more approachable (Version v1.0.0). Zenodo. http://doi.org/10.5281/zenodo.4647391

2021, **H. Ye**. Data Cleaning with OpenRefine (Version v1.1.0). Zenodo. http://doi.org/10.5281/zenodo.4263472

2021, **H. Ye**. A Friendly Introduction to Github for Project Version Control (Version v1.1.0). Zenodo. http://doi.org/10.5281/zenodo.4161768

2021, **H. Ye**. An Introduction to Writing R Packages (Version v1.0.0). Zenodo. http://doi.org/10.5281/zenodo.4542546

2021, **H. Ye**. Writing Reusable and Modular Code (Version v1.0.0). Zenodo. http://doi.org/10.5281/zenodo.4489868

2020, **H. Ye**. Using GitHub for Collaboration (Version v1.0). Zenodo. http://doi.org/10.5281/zenodo.4029661

2020, **H. Ye**. Data Organization in Spreadsheets (Version v1.1). Zenodo. http://doi.org/10.5281/zenodo.3991311

2020, **H. Ye**. uf-repro/publishing-interim-products: Publishing Interim Research Products (Version v1.0). Zenodo. http://doi.org/10.5281/zenodo.3924616

2019, Michonneau, F., Teal, T., Fournier, A., Seok, B., Obeng, A., Pawlik, A. N., [and 98 others, including **Ye, H.**]. Data Carpentry: Data Analysis and Visualization in R for Ecologists, June 2019 (Version v2019.06.1). Zenodo. https://doi.org/10.5281/zenodo.3264888

2019, Ernest, M., White, E., **Ye, H.**, and D.J. Harris. weecology/forecasting-dynamics-course, March 2019 v0.1.0 (Version v0.1.0). Zenodo. https://zenodo.org/record/2583176

2018, Smyth, P., Fung, J., Quinn, D., **Ye, H.**, Bowden, N., LaFlair, G., Waring, E., Jared, J., Cadzow, M., Michonneau, F., and E. Becker. datacarpentry/r-socialsci: R for Social Sciences, May 2018 (v1) (Version v2018.05-1). Zenodo. https://doi.org/10.5281/zenodo.1250066

Other Published Content

2021, **H. Ye**. Github Repo Template for a Pkgdown Lesson (Version v0.0.1). Zenodo. http://doi.org/10.5281/zenodo.4694734

2020, **H. Ye**. Hao Ye Academic Job Application 2019-2020. Zenodo. http://doi.org/10.5281/zenodo.3893252

Organized Symposia and Workshops

2021, Rigor and Reproducibility Seminar Series. UF Interdisciplinary T32 in Movement Disorders and Neurorestoration. January-September, (virtual).

2020, Research Reproducibility 2020: Educating for Reproducibility. December 2-3, (virtual).

2019, Research Bazaar Gainesville. September 11-13, Gainesville FL.

2019, Software Carpentry Workshop. *UF Carpentries Club*, February 11-12, Gainesville FL.

2018, Research Bazaar Gainesville. August 15-17, Gainesville FL.

2017, Empirical Dynamic Modeling for Fisheries Prediction and Management. (Symposium Chair) *AFS Annual Meeting*, August 20-24, Tampa, FL.

2015, A Hands-on Tutorial in Empirical Dynamic Modeling and Convergent Cross Mapping. (Session Organizer) *Nonlinear Time Series Modeling Workshop, CIMAS, University of Miami*, March 19-20, Miami, FL.

2012, Nonlinear Time Series Workshop (Session Organizer) *Scripps Institution of Oceanography / NOAA National Marine Fisheries Service*, April 17-19, La Jolla, CA.

Attended Symposia and Workshops

2021, Collaborations Workshop. *Software Sustainability Institute*, March 30-April 2, (virtual).

2020, eLife Innovation Sprint. *eLife*, September 2-3, (virtual).

2019, eLife Innovation Sprint. *eLife*, September 4-5, Cambridge, United Kingdom.

2019, Ally Skills (Train-the-Trainers) Workshop. *Frame Shift Consulting / University of Florida*, May 7, Gainesville, FL.

2019, Ally Skills Workshop. *Frame Shift Consulting / University of Florida*, May 6, Gainesville, FL.

2018, Ecological Knowledge and Predictions: Integrating Across Networks and National Observatories. *NSF OISE*, February 19-21, Tucson, AZ.

2017, sPred Working Group 2 - Synthesizing Predictability Research of Ecological Dynamics. *German Centre for Integrative Biodiversity Research*, October 23-27, Leipzig, Germany.

2017 Working Open Workshop. *Mozilla Science Lab*, March 10-11, Montréal, Canada.

Invited Talks

2020, Fostering an Inclusive and Equitable Academy via Open Science. *Matcha Metaresearch Seminar*, September 16, (virtual).

2020, Deducing mechanism from ecological time series using data-driven modeling. *Purdue University*, (declined).

2020, How to be an Ally for Fellow STEM Students. *iDigTRIO Biological Sciences Conference*, February 22, Gainesville, FL.

2020, Deducing mechanism from ecological time series using data-driven modeling. *BSU Biology Seminar*, January 23, Boise, ID.

2019, Distilling observation into understanding: Data-driven modeling of ecological time series. *SBU Ecology and Evolutionary Biology*, November 25, Stony Brook, NY.

2018, Data-driven Modeling of Ecological Dynamics. *UNL School of Natural Resources*, October 31, Lincoln, NE.

2018, Dynamic Indicators of Ecosystem Resilience. *ESA Annual Meeting Symposium "From Theory to Application: Addressing Outstanding Challenges to Operationalizing Resilience"*, August 5-10, New Orleans, LA.

2017, Data-driven Modeling of biological systems. *UF Biocomplexity Engineering Group Seminar*, December 5, Gainesville, FL.

2017, Data-driven Modeling of Biological Systems. *Institute for Systems Biology*, November 20, Seattle, WA.

2017, Data-driven Modeling of Biological Systems. *Cary Institute*, October 20, Millbrook, NY.

2017, Open Science and Reproducible Research. (Panel Discussion) *Research Bazaar Arizona*, March 31-April 1, Tucson, AZ.

2017, Data-driven Modeling of Biological Systems. *University of Zurich Symposium on Ecological Modeling*, March 13, Zurich, Switzerland.

2017, Open Science: Challenges and opportunities for research in the digital age. *SIO Ecology Seminar*, February 15, La Jolla, CA.

2017, Data-driven Modeling of Complex Biological Systems. *University of Vermont Complex Systems Center*, January 23, Burlington, VT.

2016, Understanding Biological Systems with Empirical Dynamic Modeling. *Lenfest Ocean Program*, December 20, Washington, DC.

2016, Addressing nonlinearity in biological systems. *UCSC/SWFSC Ecology Seminar*, June 14, Santa Cruz, CA.

2016, Understanding nonlinearity in complex natural systems. *SIO Institutional Seminar Series*, March 30, La Jolla, CA.

2015, Information leverage in complex systems. *International workshop on development and application of empirical dynamic modeling for forecasting nonlinear systems*, September 16-18, Taipei, Taiwan.

2014, Predicting the future in a nonlinear world. *California Cooperative Oceanic Fisheries Investigations (CalCOFI) Conference*, December 8-10, La Jolla, CA.

2014, rEDM: an R package for empirical dynamic modeling. *SIO/NOAA Quantitative Ecology Seminar*, March 3, La Jolla, CA.

2011, Using state space reconstruction models to understand the ecology of Fraser River sockeye salmon (*Oncorhynchus nerka*). *Marine Biology Seminar, Institute of Oceanography, National Taiwan University*, November 9, Taipei, Taiwan.

2009, Reducing Chinook salmon bycatch with market-based incentives: individual tradable encounter credits (ITEC). *North Pacific Fishery Management Council*, February 2, Seattle, WA.

Professional Service

UF Interdisciplinary T32 in Movement Disorders and Neurorestoration
Internal Advisory Board 2021 - present

UF HSCL Natural Language Processing Specialist (AI) Search
Search Committee Chair 2021 - present

Code for Science & Society
Selection Committee, Event Fund 2020 - present

UF Equitable AI Certificate Working Group
member 2020 - present

Medical Library Association
member 2020 - present
Chair Elect, Data Caucus 2021 - present

UF Libraries Academic Research Consulting & Services team
member 2020 - present

Methods in Ecology and Evolution
Associate Editor November 2018 - present

Gainesville Ally Skills Network
Organizer, Workshop Instructor 2019 - present

Open Life Science
Mentor Spring 2020
Expert 2020 - present

UF HSCL Bioinformationist Search
Search Committee Member 2020

UF Carpentries Club
Board Member 2018 - 2019

Mozilla Open Leadership Training Series
Mentor Fall 2018, Spring 2018
Participant Spring 2017

SIO Open Data Science
Co-founder and organizer 2016 - 2017

SIO R-Users Group
Co-founder and organizer 2010 - 2015

Grassroots Diversity Action Working Group at SIO
Volunteer Tutor 2010 - 2012

The Preuss School UCSD Oceanography Club
Mentor (Oceanography Club, Middle School Math Club 2006 - 2008

Am Nat, Ecology, Ecosphere, J Open Sour Softw, Mar Eco Prog Ser, Mar Mammal Sci, Methods Eco Evol, Nat Comm, Oikos PLOS One, PNAS, ReScience C, Science, Sci Rep, Theor Ecol
Reviewer