Hao Ye

CONTACT INFORMATION	Health Science Center Libraries University of Florida Communicore Building PO Box 100206 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

2022, 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.* **13**:1140. https://doi.org/10.1038%2Fs41467-022-28761-3

2021, Phillips, M.A., **Ye, H.**, and E.K. Bledsoe. An Introduction to Ally Skills for Natural History Collections Professionals. *Journal of Natural Science Collections* **9**: 3-16. http://natsca.org/article/2681

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* **24**: 2025-2039. https://doi.org/10.1111/ele.13820

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	2022, LaPolla, F., **H. Ye**, T. Mentnech, C. Bakker, N. Exner, and A. Surkis. "Rigor and Reproducibility Instruction in Academic Medical Libraries". In: Journal of the Medical Library Association. [forthcoming]

Rethlefsen, M., H. F. Norton, S. L. Meyer, K. A. MacWilkinson, P. Smith, and **H. Ye**. "Interdisciplinary Approaches and Strategies from Research Reproducibility 2020: Educating for Reproducibility". In: Journal of Statistics and Data Science Education. [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	
	2021, NIH NIGMS 3T34GM118272-05S1 - $76,539 (investigator; PI: David Julian)
	2021, IMLS LG-250067-OLS-21 - $99,833
	2020, HHS ORI ORIIR190046-01-00 - $53,646 (investigator; PI; Melissa Rethlefsen)
	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* 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 UCSD Teaching + Learning Commons	Winter 2017

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

GMS 7877   Spring 2022
Responsible Conduct of Biomedical Research
Class session: Rigor & Reproducibility   April 5, 2022
Instructor: Wayne T. McCormack

GMS5905   Fall 2021
Special Topics in Biomedical Sciences
Class session: Libraries Orientation and Literature Searching   September 10, 2021
Organizer: Erin Bruce

UF Research Summer Seminar Series   Summer 2021
Research Integrity and the Responsible Conduct of Research
Class session: Reproducibility & Replicability   June 29, 2021
Organizer: Michelle Leonard

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
A Friendly Introduction to GitHub for Project Version Control
- February 1, 2022
- September 14, 2021
- June 29, 2021
- March 2, 2021
- July 9, 2020

An Introduction to Writing R Packages
- April 12, 2022
- November 23, 2021
- February 16, 2021

Writing Reusable and Modular Code
- March 29, 2022
- July 27, 2021
- February 2, 2021

An Introduction to Writing Reproducible Manuscripts Using RMarkdown
- March 15, 2022
- October 26, 2021
- May 18, 2021
- April 13, 2021
- October 27, 2020
- July 22, 2020

Data Cleaning with OpenRefine
- March 1, 2022

- October 12, 2021
- June 15, 2021
- March 30, 2021
- October 6, 2020

Using GitHub for Collaboration
- February 15, 2022
- September 29, 2021
- July 13, 2021
- March 16, 2021
- September 15, 2020

A Friendly Introduction to GitHub for Project Version Control
- February 1, 2022
- September 14, 2021
- June 29, 2021
- March 2, 2021
- September 8, 2020

Data Organization in Spreadsheets
- January 11, 2022
- August 31, 2021
- June 1, 2021
- January 19, 2021
- August 19, 2020
- June 9, 2020

How to Use the UF VPN to Access Library Resources   August 24, 2020
Learn this One Weird Trick to Share and Publish Research Work [That Isn't a Paper]   June 24, 2020

Instructor, The Carpentries Workshops
Instructor Training   January 25-28, 2022
Library Carpentry Workshop   June 15-18, 2021
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

Session Facilitator April 19, 2022
Cultivating Supportive and Inclusive Mentoring Relationships
UF Libraries Faculty Mentoring Community

Instructor April 11, 2022
Using Github for Collaborative Codeathons
ASBCB (African Society for Bioinformatics and Computational Biology)
Omics Codeathon

Session Facilitator March 08, 2022
Introduction to Mentoring and Fostering Independence
UF Libraries Faculty Mentoring Community

Instructor August 10, 2021
Using Github for Collaborative Codeathons
NIH Summer Internship Program Codeathon

Instructor July 27, 2021; July 29, 2021
Reproducibility for Everyone Workshop
FORCE 11 2021 Scholarly Communications Institute

Instructor June 22, 2021
Using Github for Collaborative Codeathons
NIH Health Disparities Codeathon

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

2021-2022, Rigor and Reproducibility Seminar Series. UF Interdisciplinary T32 in Movement Disorders and Neurorestoration. (8 sessions), (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, Banbury Center. *Making Career-spanning Learning in the Life Sciences Inclusive and Effective for All*, December 9, (virtual).

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
2021, Open reproducible research: How do we get there? *UIC Library "Research Reproducibility: Engaging Across Disciplines"*, November 3, (virtual).

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 HSCL ARCS Senior Director Search
Search Committee Member   February 2022 - present

Reproducibility for Everyone
Code of Conduct Committee   April 2021 - present

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

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

Code for Science & Society
Selection Committee, Event Fund   June 2020 - April 2022

UF Equitable AI Certificate Working Group
member   July 2020 - July 2021
Medical Library Association
member   2020 - present
Chair Elect, Data Caucus   May 2021 - May 2022

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

Adv Water Resource, 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
Peer Reviewer

Data for Science and Health Award, Wellcome Trust
Grant Reviewer