

Curriculum vitae
NAUPAKA B. ZIMMERMAN
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GENERAL BACKGROUND

RESEARCH INTERESTS

Environmental microbial ecology, particularly in relation to plant-microbe interactions. Foliar endophytic fungal community diversity, function, and evolution using field studies, greenhouse manipulations, environmental sequencing, and bioinformatic approaches.

APPOINTMENTS

2017-present *Assistant Professor*, Dept. of Biology (University of San Francisco)
2013-2016 *Gordon and Betty Moore Postdoctoral Fellow of the Life Sciences Research Foundation*
(U of Arizona) Mentor: A. Elizabeth Arnold
2013 *Postdoctoral teaching fellow* (Stanford University)
2009-2012 *NSF Graduate Research Fellow* (Stanford University)
2006-2007 *Head Teacher* (IBS Academy, Seoul, South Korea)

EDUCATION

PhD, Biological Sciences (Ecology and Evolution track)
Stanford University, Stanford, CA. April 2013
Major advisor: Peter Vitousek
AB, Environmental Science & Public Policy and Anthropology with honors,
Harvard University, Cambridge, MA. June 2005.
Thesis advisor: Sheila Jasanoff

SUPPLEMENTARY SCIENTIFIC TRAINING AND SHORT COURSES

2013 *Frontiers and Techniques in Plant Science*. Cold Spring Harbor, NY
2013 *Next-Generation Sequencing and Population Genomics*. Hopkins Marine Station, Monterey, CA
2011 *Metagenomics workshop*. DOE Joint Genome Institute. Walnut Creek, CA.

LANGUAGES AND ANALYTICAL EXPERIENCE

R, perl/bioperl, python, MATLAB, ArcGIS, SQL, LaTeX, markdown, Linux/Unix, git
Plant gene expression analysis using RNA-Seq and qPCR, high throughput DNA extraction
and PCR from environmental samples, Illumina/454 sequencing, DGGE, T-RFLP
Pyrolysis Gas Chromatography/Mass Spectrometry (Py/GC/MS)
Web development: HTML/CSS, Drupal, MediaWiki

PUBLICATIONS

PEER-REVIEWED PUBLICATIONS (* denotes equal author contributions)

Edmund Hart, Pauline Barmby, David LeBauer, François Michonneau, Sarah Mount, Timothée Poisot, Kara H. Woo, **Naupaka B. Zimmerman**, Jeffrey Hollister. Ten Simple Rules for Digital Data Storage. 2016. *PLoS Computational Biology*. 12(10): e1005097.
doi: 10.1371/journal.pcbi.1005097

Jana U'Ren, Jolanta Miadlikowska, **Naupaka B Zimmerman**, François Lutzoni, Jason E Stajich, A. Elizabeth Arnold. Contributions of North American endophytes to the phylogeny, ecology, and taxonomy of Xylariaceae (Sordariomycetes, Ascomycota). 2016. *Molecular Phylogenetics and Evolution* 98, p. 210-232
doi: 10.1016/j.ympev.2016.02.010

Adam Wolf, **Naupaka Zimmerman**, William Anderegg, Posy Busby, Jon Christensen. Altitudinal shifts of the native and introduced flora of California in the context of 20th century warming. 2016. *Global Ecology and Biogeography* 25(4), p. 418-429
doi: 10.1111/geb.12423
press: theguardian.com, theatlantic.com, phys.org, climatecentral.org

Rachel L. White, Alexandra E. Sutton, Roberto Salguero-Gómez, Timothy Bray, Heather Campbell, Ellen Cieraad, Nalaka Geekiyanage, Laureano Gherardi, Alice C. Hughes, Peter Søgaard Jørgensen, Timothee Poisot, Lucia DeSoto, and **Naupaka Zimmerman**. The next generation of Action Ecology: Novel approaches towards global ecological research. 2015 *Ecosphere* 6:art134
doi: 10.1890/ES14-00485.1

Hampton SE, Anderson S, Bagby SC, Gries C, Han X, Hart E, Jones MB, Lenhardt WC, MacDonald A, Michener W, Mudge JF, Pourmokhtarian A, Schildhauer M, Woo KH, **Zimmerman N**. The Tao of Open Science for Ecology. 2015 *Ecosphere* 6:art120
doi: 10.1890/ES14-00402.1

Peter Søgaard Jørgensen, Frederic Barraquand, Vincent Bonhomme, Timothy J. Curran, Ellen Cieraad, Thomas G. Ezard, Laureano A. Gheradi, R. Andrew Hayes, Timothee Poisot, Roberto Salguero-Gómez, Lucía DeSoto, Brian Swartz, Jennifer M. Talbot, Brian Wee, and **Naupaka Zimmerman**. Connecting people and ideas from around the world: Global innovation platforms for next-generation ecology and beyond. 2015. *Ecosphere* 6:art68
doi: 10.1890/ES14-00198.1

Naupaka Zimmerman, Jacques Izard, Christian Klatt, Jizhong Zhou, Emma Aronson. The Unseen World: Environmental microbial sequencing and identification methods for ecologists. 2014. *Frontiers in Ecology and the Environment* 12(4), p. 224–231
doi: 10.1890/130055
F1000 doi: 10.3410/f.718384400.793495106

PEER-REVIEWED PUBLICATIONS (CONTINUED)

Frédéric Barraquand, Thomas HG Ezard, Peter S Jørgensen, **Naupaka Zimmerman**, Scott A Chamberlain, Roberto Salguero-Gómez, Timothy J Curran, Timothée Poisot. Lack of quantitative training among early-career ecologists: a survey of the problem and potential solutions. 2014. *PeerJ* 2:e285

doi: 10.7717/peerj.285

data: 10.7717/peerj.285/supp-1

Posy Busby*, **Naupaka Zimmerman***, Dave Weston, Sarah Jawdy, Jos Houbraeken, George Newcombe. Leaf endophytes and host genotype in *Populus* alter severity of damage from the necrotrophic leaf pathogen, *Drepanopeziza populi*. 2013. *Ecosphere* 4(10) art125

doi: 10.1890/ES13-00127.1

Naupaka Zimmerman and Peter Vitousek. Fungal endophytes exhibit environmental structuring across a Hawaiian landscape. 2012. *Proceedings of the National Academy of Sciences* 109(32), p. 13022-13027

doi: 10.1073/pnas.1209872109

data: NCBI SRX153137

Naupaka Zimmerman, R. Flint Hughes, Susan Cordell, Patrick Hart, Heather Kalei Chang, David Perez, Ryan Kaipalohaakala Like, Rebecca Ostertag. Patterns of Primary Succession of Native and Introduced Plants in Lowland Wet Forests in Eastern Hawai'i. 2008. *Biotropica* 40(3), p. 277-284

doi: 10.1111/j.1744-7429.2007.00371.x

data: 10.5061/dryad.vp86v3r0

PUBLICATIONS IN REVIEW OR REVISION, PREPRINTS

Laura Warman, Rebecca Ostertag, Susan Cordell, **Naupaka Zimmerman**, Joseph Mascaro. From species ID to community FD: Measures of functional diversity along a 'novelty gradient' in Hawaiian lowland wet forests. *In revision*.

OTHER PUBLICATIONS

Allison K. Shaw, Daniel E. Stanton, Sarah R. Supp, Amber Budden, Stephanie Eby, Pamela L. Reynolds, Roberto Salguero-Gómez, Daniel R. Scholes, **Naupaka B. Zimmerman**. Ecology postdocs in academia: primary concerns and possible solutions. 2015. *ESA Bulletin* 96, p.140–152

doi: 10.1890/0012-9623-96.1.140

Peter Sogaard Jørgensen, Vincent Bonhomme, Thomas H G Ezard, R Andrew Hayes, Timothée Poisot, Roberto Salguero-Gomez, Salvatrice Vizzini, **Naupaka Zimmerman**. A global network of next generation ecologists. 2011. *INTECOL Bulletin* 5 (2) 4-6.

Naupaka Zimmerman, Rob Salguero-Gomez, Jorge Ramos. The Next Generation of Peer Reviewing. 2011. *Frontiers in Ecology and the Environment* 9(4), p. 199 guest editorial

doi: 10.1890/1540-9295-9.4.199

FELLOWSHIPS, GRANTS, AND AWARDS

GRANTS

- 2014 US DOE Joint Genome Institute Community Science Program Sequencing Grant. Title: Mechanisms of Interaction in the Foliar Fungal Microbiome of *Populus trichocarpa*. (co-PI)
- 2010-2012 NSF Doctoral Dissertation Improvement Grant. (co-PI) \$15,000
- 2009 SCORE Grant, Stanford Biology Dept. \$2,000.
- 2008 SCORE Grant, Stanford Biology Dept. \$2,000.
- 2004 Harvard College Research Program. Sponsor: Paul Moorcroft. \$1,000

FELLOWSHIPS

- 2013-2016 Life Sciences Research Foundation Postdoctoral Fellowship \$180,000
- 2009-2012 NSF Graduate Research Fellowship \$121,500

AWARDS AND SCHOLARSHIPS

- 2011 Best Student Oral Presentation, Mycological Society of America Annual Meeting. \$200
- 2010 Forest Fungal Ecology Research Award, Mycological Society of America. \$1,000
- 2009 Graduate Student Scholarship, Big Island Federal Credit Union. \$2,500
- 2001 United States Presidential Scholar, National Merit Scholar, AP Scholar

TRAVEL AWARDS

- 2014 FESIN Travel Award, Mycological Society of America. \$900
- 2012 Travel Award, New Phytologist Symposium on the Plant Microbiome, \$1000
- 2011 Travel Award, Ecological Society of America Microbial Ecology Section. \$250
- 2011 FESIN Travel Award, Mycological Society of America. \$1000
- 2012 Travel Award, Stanford Biology Dept. \$800
- 2010 Travel Award, Stanford Biology Dept. \$800
- 2004 *Ecological Informatics* Travel Award to Intl Assn. of Veg Sci. Mtg. \$300

PRESENTATIONS, POSTERS, ORGANIZED SESSIONS

SCIENTIFIC PRESENTATIONS AND POSTERS (* denotes invited)

- 2016 Naupaka Zimmerman**, Jennifer E. Johnson, Yu-Ling Huang, David J.P. Moore, A. Elizabeth Arnold. The effects of foliar fungal endophytes on plant physiological performance. (oral presentation) Meeting of the Ecological Society of America. Ft. Lauderdale, FL.
- 2016 Naupaka Zimmerman**, A. Elizabeth Arnold, Peter Vitousek. A highly diverse clade of melanized fungi associated with the leaves and trichomes of the endemic tree *Metrosideros polymorpha* at high elevation sites in Hawai'i. (oral presentation) Hawai'i Ecosystems Meeting. Hilo, HI.
- 2015 Naupaka Zimmerman**, A. Elizabeth Arnold, Peter Vitousek. A highly diverse clade of melanized fungi associated with the leaves and trichomes of the endemic tree *Metrosideros polymorpha* at high elevation sites in Hawai'i. (oral presentation) Meeting of the Ecological Society of America. Baltimore, MD. doi: 10.6084/m9.figshare.1506841
- 2015 *Naupaka Zimmerman**, Barraquand Frederic, Peter Sogaard Jørgensen, Tim Poisot, Roberto Salguero-Gomez, Allison K. Shaw, Daniel E. Stanton. Where do we go from here? Early-career perspectives on the challenges and opportunities facing Ecology in the 21st Century (oral presentation) Meeting of the Ecological Society of America. Baltimore, MD. doi: 10.6084/m9.figshare.1509928
- 2015 *Naupaka Zimmerman**, A. Elizabeth Arnold, Peter Vitousek. A highly diverse clade of melanized fungi associated with the leaves and trichomes of the endemic tree *Metrosideros polymorpha* at high elevation sites in Hawai'i. (poster and invited oral presentation) Fungal Genetics Conference. Asilomar, CA.
- 2014 Naupaka Zimmerman** and Posy Busby. Foliar fungi in Populus: Community assembly and pathogen resistance. (oral presentation) Meeting of the Ecological Society of America. Sacramento, CA. doi: 10.6084/m9.figshare.1134635
- 2013 Naupaka Zimmerman** and Peter Vitousek. Environmental Factors are more effective at explaining differences in tropical fungal endophyte communities than distance. (oral presentation) Meeting of the Ecological Society of America. Minneapolis, MN.
- 2012 Naupaka Zimmerman** and Peter Vitousek. Pyrosequencing of tropical fungal endophytes provides evidence for adaptation to high elevation. (oral presentation) Meeting of the Ecological Society of America. Portland, OR.
- 2012 *Naupaka Zimmerman** and Peter Vitousek. There is more to 'ōhi'a than meets the eye. (oral presentation) Hawai'i Conservation Conference. Honolulu, HI. vimeo.com/50646324
- 2012 Naupaka Zimmerman**, Posy Busby, David Weston, George Newcombe. Interactions between Endophytes and a Pathogen in leaves of *Populus angustifolia*. (poster) New Phytologist Symposium on the Plant Microbiome. Rhodes, Greece.

SCIENTIFIC PRESENTATIONS AND POSTERS (CONTINUED)

- 2011 Naupaka Zimmerman**, Posy Busby, David Weston, George Newcombe. Foliar Fungi in Poplar: Friends or Foes? (oral presentation) UC Santa Cruz-Stanford Species Interaction Workshop. Stanford, CA.
- 2011 Naupaka Zimmerman** and Peter Vitousek. Fungals in the Jungles: Endophytic Fungal Diversity at the Landscape Scale. (poster) Metagenomics workshop at the DOE Joint Genome Institute. Walnut Creek, CA.
- 2011 Naupaka Zimmerman** and Peter Vitousek. Landscape biogeography of foliar fungal endophytes in the tropics. (oral presentation) Meeting of the Ecological Society of America. Austin, TX.
- 2011 Naupaka Zimmerman** and Peter Vitousek. Fungals in the Jungles: Endophytic Fungal Diversity at the Landscape Scale. (oral presentation) Meeting of the Mycological Society of America. Fairbanks, AK.
- 2010 Naupaka Zimmerman**, Peter Vitousek. Biogeography of Tropical Fungal Endophytes (oral presentation) UC Santa Cruz-Stanford Species Interaction Workshop. Santa Cruz, CA.
- 2009 Naupaka Zimmerman** and Peter Vitousek. The Phascinating Phyllosphere: Linking Aboveground and Belowground Processes. (oral presentation) Hawai'i Ecosystems Meeting, Hilo, Hawai'i
- 2008 Naupaka Zimmerman** and Peter Vitousek. Fungal Endophytes in 'Ōhi'a: Looking Beyond the Leaves. (oral presentation) Hawaii Ecosystems Meeting, Hilo, HI
- 2004 Naupaka Zimmerman**, R. F. Hughes, S. Cordell, P. Hart, H.K. Chang, and D. Perez. The state of lowland wet forests in Hawai'i: Variation in ecosystem dynamics and impacts of invasive species. (oral presentation)
International Academy of Vegetation Science, Kailua-Kona, HI
Hawai'i Conservation Conference, Honolulu, HI
Hawai'i Ecosystems Meeting, Hilo, HI

ORGANIZED SCIENTIFIC SESSIONS

- 2011 Emma Aronson and Naupaka Zimmerman**. Microbial Ecology using Metagenomics. Organized Oral Session, Meeting of the Ecological Society of America. Austin, TX.
- 2010 Naupaka Zimmerman** and Kimberly Epps. Scaling genes to ecosystems: Building the bridge between microbial ecology and global processes. Organized Oral Session, Meeting of the Ecological Society of America. Pittsburgh, PA.

INVITED WORKSHOP PARTICIPANT

2015 Building Global Ecological Understanding. June 2-5, 2015. University of Delaware, Newark, Delaware. [Website](#).

2015 Developing, Maintaining, and Employing Large Computational Frameworks for the Ecological Sciences. April 13- 17, 2015. Statistical and Applied Mathematical Sciences Institute, North Carolina. [Website](#) and [GitHub organization](#).

TEACHING AND MENTORING

TEACHING (including curriculum development and course design)

Spring 2017 BIOL 356/357 General Microbiology + Lab U of San Francisco

Spring 2013 *Lead Instructor* BIO 44Y Biology Core Lab in Ecology Stanford

2006-2007 *Head Teacher*. IBS Academy. Seoul, Korea.

SOFTWARE CARPENTRY AND DATA CARPENTRY

2015-present Co-maintainer of R lesson materials (swcarpentry/r-novice-gapminder and datacarpentry/R-genomics).

Instructor at two-day intensive workshops to teach scientists foundational computer skills, including scripting in python or R, version control with git, the command line, structured data (e.g. SQL), reproducible research.

2016 University of Wisconsin – Madison, University of Arizona (x2)

2015 St. Joseph's Hospital (Phoenix, AZ), Tulane University, University of Arizona (x2),
University of Texas–Arlington, Statistical and Applied Mathematical Sciences Institute,
Washington State University

2014 University of California–Davis, Stanford, Arizona State University

INVITED WORKSHOP INSTRUCTOR

Spring 2016 *Instructor* “Reproducible Research” NEON Work with Data Institute. National Ecological Observatory Network. Boulder, CO. Website and GitHub repository.

Spring 2016 *Instructor* “Using R to Analyze Microbiome Data” Metagenomics: High Throughput Analysis of Microbiomes. City of Knowledge, Panama. GitHub repository.

GUEST LECTURES

Spring 2016 *Guest Lecturer* “Endophytes” PLP 550 Principles of Plant Microbiology U of Arizona

Fall 2015 *Guest Lecturer* “Fungal Endophytes” PLP 329A Microbial Diversity U of Arizona

Spring 2015 *Guest Lecturer* “Bioinformatics for fungal community ecology” PLP 575 Advanced Mycology U of Arizona

Spring 2014 *Guest Lecturer* “The Endophyte-Pathogen Continuum” PLP 550 Principles of Plant Microbiology U of Arizona

Spring 2014 *Guest Lecturer* “Fungi and the Carbon Cycle” EEB 527 Microbial Biogeochemistry and Global Change U of Arizona

Fall 2013 *Guest Lecturer* “Modeling Succession” BIO 101 Ecology Stanford

Fall 2012 *Guest Lecturer* “Modeling Succession” BIO 101 Ecology Stanford

Fall 2011 *Guest Lecturer* “Endophyte Biogeography” BIO 321 Ecological Genetics Stanford

Fall 2011 *Guest Lecturer* “Modeling Succession” BIO 101 Ecology Stanford

Fall 2008 *Guest Lecturer* “Korean Academies” EDUC 170 Schooling and Asian Cultures UCSC

TEACHING ASSISTANTSHIPS

Fall 2010 *Teaching Assistant* BIO 117 Ecology of the Hawaiian Islands Stanford

Fall 2009 *Teaching Assistant*. BIO 101 Ecology Stanford

Spring 2009 *Teaching Assistant*. BIO 216 Terrestrial Biogeochemistry Stanford

Summer 2008 *Teaching Assistant*. BIO 16N Island Ecology Stanford

Spring 2008 *Teaching Assistant*. BIO 44Y Biology Core Lab in Ecology Stanford

Fall 2007 *Teaching Assistant*. BIO 101 Ecology Stanford

MENTORING

- 2010-2016** Conference mentor in ESA's Strategies for Ecology, Education, Diversity and Sustainability (SEEDS) undergraduate mentorship program
- 2014** Molecular and Cellular Biology Undergraduate Honors Mentor. MCBH181.
Topic: *The Plant Microbiome* (University of Arizona)
- 2013-2014** High School research mentor (U of Arizona School of Plant Sciences):
Cassidy Vernon, Rowen Stokes – root endophytes in buffelgrass (*Cenchrus ciliaris*)
3rd place in Plant Sciences at the Southern Arizona Science and Engineering Fair
- 2009-2013** Undergrad honors research mentor (Stanford Biology Dept):
Eric Slessarev – nutrient cycling and mycorrhizal symbiosis in nutrient poor soils
Safiyah Abdul-Khabir – microclimate effects on foliar fungal endophytic communities
Chris Chu – nutrient effects on phyllosphere fungal communities and herbivory
- Fall 2008, 2009** *Instructor*: Explorations Short Course –Phyte Club: Endophytic Fungi Stanford
- 2009** Teaching Assistant mentor. Biology 101 Ecology Stanford University
- 2008-2012** 'Big Sibs' mentoring program for new Stanford graduate students in Biology
- 2007-2012** BioBridge mentoring program for Stanford undergraduates

SUPPLEMENTARY COURSES, WORKSHOPS, AND TRAINING IN TEACHING AND MENTORING

- 2017** Jupyter Reproducible Science Hackathon: Curriculum & Workflow Development
GitHub repo: [Reproducible-Science-Curriculum/RR-Jupyter-Hackathon-Jan-2017](https://github.com/Reproducible-Science-Curriculum/RR-Jupyter-Hackathon-Jan-2017)
- 2014** NESCent Reproducible Science Hackathon: Curriculum & Workflow Development
GitHub repo: <https://github.com/Reproducible-Science-Curriculum/>
- 2014** STCH 595: Colloquium in Science Teaching and Learning, U of Arizona
- 2013** Software Carpentry (software-carpentry.org) Instructor Training Course
- 2012-2013** Mentor in Teaching (MinT) Fellow, Stanford University
- 2012** CTL 312: Sci & Engineering Course Design, Stanford Center for Teaching & Learning
- 2011** EDUC 332x: Environmental Education, Stanford Graduate School of Education
- 2008** CTL 231: Future Faculty Seminar, Stanford Center for Teaching & Learning

PROFESSIONAL ACTIVITIES AND SERVICE

JOURNAL EDITING AND REVIEWING

2008-present Ad-hoc reviewer:

Journals (certified record available at publons.com/a/25441):

American Journal of Botany, Annals of Microbiology, Applied and Environmental Microbiology, Biotropica, Diversity and Distributions, Ecological Research, Ecology and Evolution, Ecosystems, Environmental Microbiology, FEMS Microbiology Ecology, Fungal Diversity, Fungal Ecology, HardwareX, ISME J, Journal of Chemical Ecology, Journal of Open Research Software, Journal of Science Communication, Microbial Ecology, Molecular Ecology, Mycologia, Mycological Progress, New Phytologist, Oecologia, Pacific Science, PeerJ, Plant and Soil, Plant Ecology, PLoS ONE, Scientia Agricola, Scientific Reports, Symbiosis

Granting agencies: NERC (UK), NSF

2010-2013 Associate Editor: Stanford Journal of Law, Science, and Policy

SERVICE (BY ORGANIZATION)

International Association for Ecology (INTECOL)

2013-present Governing Board member

International Network of Next-Generation Ecologists (INNGE – innge.net)

INNGE is a network of early career researchers in the ecological and related sciences (details on website).

2014-present Governing Board member

2014-2016 Secretary

2010-present Co-founder, working group participant, Web site developer

Ecological Society of America

2012-present Professional Ethics and Appeals Committee

2014 Founding member, Open Science Section

2011-2012 Ecology for a New Generation Committee

2010-2011 Chair, Student Section; ESA Council member (*ex officio*)

2009-2011 Meetings Committee

2009-2012 Eugene P. Odum Education Award Committee

2009-2010 Vice-Chair, Student Section

2008-2009 Treasurer, Student Section

Mycological Society of America

2012 Founding member, Student Section

Hawaii Conservation Alliance

2009-present Abstract and Program Committee

2009-2011 Emerging Professionals Committee

Stanford Biology Department

2009, 2012 Graduate Studies Committee

2008-2009 Ecology and Evolution Lunch Seminar Coordinator

Harvard College

2008-present Undergraduate admissions alumni interviewer

ORGANIZED WORKSHOPS

- 2016 Andrew MacDonald, **Naupaka Zimmerman**, Andrew Tredennick. An Introduction to R for Ecologists. Meeting of the Ecological Society of America. Ft. Lauderdale, FL. GitHub: [aammd/Intro_R_ESA_2016](#)
- 2016 Andrew Tredennick, **Naupaka Zimmerman**. Data Visualization Using R and ggplot. Meeting of the Ecological Society of America. Lauderdale, FL. GitHub: [atredennick/esa_data_viz_2016](#)
- 2016 **Naupaka Zimmerman**, Gavin Simpson. Introduction to community data analysis using the vegan package in R. Meeting of the Ecological Society of America. Lauderdale, FL. GitHub: [naupaka/esa_intro_vegan_2016](#)
- 2016 Gavin Simpson, **Naupaka Zimmerman**. Advanced community data analysis using the vegan package in R. Meeting of the Ecological Society of America. Lauderdale, FL. GitHub: [gavinsimpson/esa-advanced-vegan-2016](#)
- 2015 Alexandra E. Sutton, **Naupaka Zimmerman**. Building a Broader Community in Ecology and the Related Sciences. Meeting of the Ecological Society of America. Baltimore, MD.
- 2015 **Naupaka Zimmerman**, Andrew MacDonald, Gavin Simpson, and Noam Ross. An Introduction to R for Ecologists. Meeting of the Ecological Society of America. Baltimore, MD. GitHub: [naupaka/Intro_R_ESA_2015](#)
- 2015 **Naupaka Zimmerman**, Andrew Tredennick. Data Visualization Using R and ggplot. Meeting of the Ecological Society of America. Baltimore, MD. GitHub: [atredennick/esa_data_viz_2015](#)
- 2015 **Naupaka Zimmerman**, Gavin Simpson. Introduction to community data analysis using the vegan package in R. Meeting of the Ecological Society of America. Baltimore, MD. GitHub: [naupaka/esa_intro_vegan_2015](#)
- 2015 Gavin Simpson, **Naupaka Zimmerman**. Advanced community data analysis using the vegan package in R. Meeting of the Ecological Society of America. Baltimore, MD. GitHub: [gavinsimpson/esa-advanced-vegan-2015](#)
- 2014 Organizing Committee member. National Center for Ecological Analysis and Synthesis (NCEAS) Open Science Codefest. [nceas.github.io/open-science-codefest/](#) Santa Barbara, CA.
- 2014 **Naupaka Zimmerman**, Andrew Tredennick. Data Visualization Using R and ggplot. Meeting of the Ecological Society of America. Sacramento, CA. GitHub: [naupaka/esa_data_viz_2014](#)
- 2014 **Naupaka Zimmerman**, Gavin Simpson. Community Data Analysis Using the Vegan Package in R. Meeting of the Ecological Society of America. Sacramento, CA. GitHub: [naupaka/esa_vegan](#)

ORGANIZED WORKSHOPS (CONTINUED)

- 2014 Sue Silver, **Naupaka Zimmerman**. What Editors Want: An Author's Guide to Scientific Publishing. Meeting of the Ecological Society of America. Sacramento, CA.
- 2013 Talbot, Jenny, **Naupaka Zimmerman**. Approaches to Data Visualization. International Association for Ecology (INTECOL) Congress. London, England.
- 2013 **Naupaka Zimmerman**, Karthik Ram, Andrew Tredennick. Data Visualization Using R. Meeting of the Ecological Society of America. Minneapolis, MN.
- 2013 Sue Silver, Joey Bernhardt, **Naupaka Zimmerman**. What Editors Want: An Author's Guide to Scientific Publishing. Meeting of the Ecological Society of America. Minneapolis, MN.
- 2011 Talbot, Jenny, **Naupaka Zimmerman**, Andréa L. Kuchy, Jorge Ramos. Shaping the Future: How students can set a precedent for planetary stewardship. Meeting of the Ecological Society of America. Austin, TX.
- 2011 Rob Salguero-Gomez, **Naupaka Zimmerman**, Jorge Ramos, Sue Silver. Things they don't typically teach you in graduate school: peer-review inside out. Meeting of the Ecological Society of America. Austin, TX.
- 2010 Talbot, Jenny, Matthew D. Whiteside, Roberto Salguero-Gomez, **Naupaka Zimmerman**, Andréa L. Kuchy. Fight for what's right: become a student leader in planetary stewardship. Meeting of the Ecological Society of America. Pittsburgh, PA.

OTHER PRESENTATIONS

- 2016 **Naupaka Zimmerman**. Open-source Hardware for Ecologists: Using the Arduino and Raspberry Pi platforms for logging ecological data. Meeting of the Ecological Society of America. Ft. Lauderdale, FL. doi: 10.6084/m9.figshare.3580713.v2
- 2015 **Naupaka Zimmerman**. Version Control with Git. (invited seminar) U of Arizona Department of Mathematics. Tucson, AZ.
- 2014 **Naupaka Zimmerman**. Graduate school in Ecology. (panelist) U of Arizona Dept. of Ecology and Evolutionary Biology. Tucson, AZ.
- 2013 **Naupaka Zimmerman**. Git for Scientists. (oral presentation) International Association for Ecology Congress. London, England. GitHub: [naupaka/git_intro](https://github.com/naupaka/git_intro)
- 2013 **Naupaka Zimmerman**. Student Orientation. (invited panelist) Meeting of the Ecological Society of America. Minneapolis, MN.
- 2012 **Naupaka Zimmerman**. Student Orientation. (invited panelist) Meeting of the Ecological Society of America. Portland, OR.
- 2009 **Naupaka Zimmerman**. Graduate school in the sciences. (invited panelist) U of Hawaii Hawaiian Internship Program. Hilo, HI.

COMMUNITY INVOLVEMENT AND OUTREACH

- 2016** Taught class on *Using R for Data Analysis* and *Introductory Statistics* to students from Tucson High School during the BLAST (Biotechnology Lab for Arizona Students and Teachers) summer program
- 2015** Taught classes on *DNA Sequence Editing* and *How to Give a Scientific Presentation* to students from Tucson High School during the BLAST (Biotechnology Lab for Arizona Students and Teachers) summer program
- 2014** Taught ~70 students from Tucson High School how to quantify biological diversity over the course of a two-day workshop at the University of Arizona
- 2014** Judge, Tucson High School Science Fair, Southern Arizona Regional Science and Engineering Fair
- 2009-2010** Co-organizer, East Palo Alto Academy Internship in Biogeochemistry
- 2008-2009** Boys & Girls Club SAT tutor for high school students in East Palo Alto.
- 2008** Judge, Terman Middle School Science Fair, Mountain View, CA

PROFESSIONAL SOCIETY MEMBERSHIPS

- Genetics Society of America (2014 -)
- American Society for Microbiology (2011-)
- Mycological Society of America (2010-)
- International Association for Ecology (2010-)
- Ecological Society of America (2007-)
- American Geophysical Union (2007-)