

*Curriculum vitae*  
**NAUPAKA B. ZIMMERMAN**  
nzimmerman@usfca.edu

*USF Campus Address:*  
Harney 219C  
2130 Fulton Street  
San Francisco, CA 94117-1080

*Website:* zimmermanlab.org  
*Google Scholar:* profile  
*ORCID:* 0000-0003-2168-6390  
*Altmetrics:* impactstory.org  
*GitHub:* github.com/naupaka

## **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 20<sup>th</sup> 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)**

- 2017 Naupaka Zimmerman**, Jana U'Ren, A. Elizabeth Arnold. High resolution genotyping reveals extensive diversification of trichome-associated fungi at high elevation sites in Hawai'i. (oral presentation) Meeting of the Ecological Society of America. Portland, OR.
- 2017 Naupaka Zimmerman**, Jana U'Ren, A. Elizabeth Arnold. Endophytic communities of high elevation 'ōhi'a. (oral presentation) Hawai'i Ecosystems Meeting. Hilo, HI.
- 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.

## SCIENTIFIC PRESENTATIONS AND POSTERS (CONTINUED)

- 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](https://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.
- 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 Association for 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)**

**Fall 2017** BIOL 395 Bioinformatics U of San Francisco  
**Fall 2017** CS 640 Bioinformatics U of San Francisco  
**Summer 2017** BIOL 102 California Ecology + Lab U of San Francisco  
**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.*

**2017** University of California, San Francisco (x2), Stanford

**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**

**Summer 2017** *Instructor* “Reproducible Research” NEON Work with Data Institute. National Ecological Observatory Network. Boulder, CO.

**Summer 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

- 2017-** Undergrad honors research mentor (USF Biology Dept)  
Emma Gibson – urban biogeography of fungal endophytes  
**2010-2017** 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](http://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](http://publons.com/a/25441)):

*American Journal of Botany, Annals of Microbiology, Applied and Environmental Microbiology, BioScience, Biotropica, Diversity and Distributions, Ecological Research, Ecology and Evolution, Ecosystems, Environmental Microbiology, Environmental Microbiology Reports, FEMS Microbiology Ecology, Fungal Diversity, Fungal Ecology, HardwareX, ISME J, Journal of Applied Ecology, 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 Computational Biology, PLoS ONE, Proc Royal Soc B, 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)

**2013-2017** Governing Board member

International Network of Next-Generation Ecologists (INNGE – [inngene.net](http://inngene.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

## ORGANIZED WORKSHOPS

- 2017 Andrew Tredennick, **Naupaka Zimmerman**. Data Visualization Using R and ggplot. Meeting of the Ecological Society of America. Portland, OR. GitHub: [atredennick/esa\\_ggplot2\\_2017](#)
- 2017 **Naupaka Zimmerman**, Gavin Simpson. Introduction to community data analysis using the vegan package in R. Meeting of the Ecological Society of America. Portland, OR. GitHub: [naupaka/esa\\_intro\\_vegan\\_2017](#)
- 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.

## ORGANIZED WORKSHOPS (CONTINUED)

- 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](#)
- 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](#)

### **OTHER PRESENTATIONS (CONTINUED)**

**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**

Association for Computing Machinery (2017- )

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- )