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& Spatial Sciences
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- EDUCATION**
- | | |
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| 2012 | PhD, Biology, Stanford University
<i>Dissertation:</i> Ecosystem assembly in California: Linking pattern to process at the landscape scale
<i>Advisors:</i> Chris Field & Greg Asner |
| 2004 | Masters of Environmental Management, Yale School of Forestry & Environmental Studies
<i>Masters Project:</i> Crotona Park (NYC) Urban Forest Management Plan
<i>Advisor:</i> Mark Ashton |
| 2003 | BS, Yale University, Ecology & Evolutionary Biology
<i>Thesis:</i> Kauri (<i>Agathis australis</i>) growth in planted and natural stands: A promising native timber species for New Zealand |

RESEARCH FOCUS

My research aims to better understand and quantify ecological patterns and processes from local to global scales through the application of emerging technologies, including air- and space-borne remote sensing, spatial statistics, and process-based modeling.

POSITIONS HELD

- 2015 - *present* Assistant Professor, Michigan State University, Department of Geography, Environment, & Spatial Sciences
Affiliated faculty in the program in Ecology, Evolutionary Biology, & Behavior (EEBB), the Environmental Science & Policy Program (ESPP) and AgBioResearch
- 2012 - 2014 Advanced Study Program Postdoctoral Fellow, National Center for Atmospheric Research, Boulder, Colorado
- 2009 - 2012 Interdisciplinary Graduate Fellow, Stanford University, California
- 2007 - 2009 Kennedy Graduate Fellow, Stanford University, California
- 2005 - 2007 Instructor, San Francisco City College, San Francisco, California
- 2005 - 2007 GIS & Resource Management Technician, Golden Gate National Parks Conservancy, San Francisco, California
- 2003 - 2005 Urban Forester, NYC Department of Parks & Recreation, New York

HONORS & AWARDS

- | | |
|---|-----------|
| Editors' Citation for Excellence in Refereeing for <i>JGR-Biogeosciences</i> | 2019 |
| Climate and Global Change Postdoctoral Fellow, National Oceanic and Atmospheric Administration, <i>offered and declined</i> | 2014 |
| Society of Fellows Postdoctoral Fellow, University of Michigan, <i>offered and declined</i> | 2014 |
| Advanced Study Program Postdoctoral Fellow, National Center for Atmospheric Research | 2012-2014 |
| Interdisciplinary Graduate Fellow, Stanford University | 2009-2012 |
| Excellence in Teaching Award, Stanford University, Department of Biology | 2008 |

RESEARCH

PEER-REVIEWED PUBLICATIONS⁺

- 202x *Kamoske AG, **Dahlin KM**, Serbin SP, & SC Stark. (accepted August 16, 2020) Leaf traits and canopy structural heterogeneity together explain canopy functional diversity: Mapping whole canopy traits with a fusion of hyperspectral imagery and lidar. *Ecological Applications*. [Q1 - Ecology]
- 202x LaRue E, Dodds WK, Rohr J, Rose K, Tromboni F, Hardiman B, Johnson J, **Dahlin KM**, Atkins JW, Fahey RT, Thorp JH, Rodriguez-Gonzalez MI, Parker G, Keller M, Chandra S, Knott J, SanClements M, & S Fei (accepted March 13, 2020) The evolution of macrosystems biology. *Frontiers in Ecology & the Environment* (Macrosystems Biology special issue). [Q1 - Ecology]
- 2020 Wanyama D, Moore NJ & **KM Dahlin**. Persistent vegetation greening and browning trends driven by natural and human activities in the Mount Elgon Ecosystem. *Remote Sensing*. 12(2113): 1-27. DOI:10.3390/rs12132113. [Q1 - Earth & Planetary Sciences]
- 2020 *Desanker G, **Dahlin KM** & AO Finley. Environmental controls on phenoregions across an eastern African megatransect. *Ecosphere*. 11(5): e03143. 10.1002/ecs2.3143 [Q1 - Ecology]
- 2020 *Nagelkirk RL & **KM Dahlin**. Woody cover fractions in African savannas from Landsat and high-resolution imagery. *Remote Sensing*. 12: 813. DOI: 10.3390/rs12050813 [Q1 - Earth & Planetary Sciences]
- 2020 Read QD, Zarnetske PL, Record S, **Dahlin KM**, Costanza JK, Finley AO, Gaddis KD, Grady JM, Hobi ML, Latimer AM, Malone SL, Pau S, Ollinger SV & AM Wilson. Beyond counts and averages: How are different levels and dimensions of biodiversity connected to geodiversity? *Global Ecology & Biogeography*. 29(4): 696-710. DOI: 10.1111/geb.13061 [Q1 - Ecology]
- 2020 Kattge J, Diaz S, Lavorel S, Prentice IC, Leadley P, Bonisch G, Tautenhahn S, Werner G, Wirth C, ... **Dahlin KM** ... & C Wirth (>700 authors). TRY plant trait database - enhanced coverage and open access. *Global Change Biology*. 26(1): 119-188. DOI: 10.1111/gcb.14904 [Q1 - Ecology]
- 2019 Lawrence DM, Fisher RA, Koven CD, Oleson KW, Swenson SC, Bonan G, Collier N, Ghimire B, van Kampenhout L, Kennedy D, Kluzek E, Lawrence PJ, Li F, Li H, Lombardozzi D, Riley WJ, Sacks WJ, Shi M, Vertenstein M, Wieder WR, Xu C, Ali A, Badger AM, Bisht G, Broxton P, Brunke MA, Burns SP, Buzan J, Clark M, Craig A, **Dahlin KM**, Drewniak B, Fisher JB, Flanner M, Fox AM, Gentine P, Hoffman F, Keppel-Aleks G, Knox R, Kumar S, Lenaerts J, Leung LR, Lipscomb WH, Lu Y, Pandey A, Pelletier JD, Perket J, Randerson JT, Ricciuto DM, Sanderson BM, Slater A, Subin ZM, Tang J, Thomas RQ, Tilmes S, Martin MV, Vitt F, & X Zeng. The Community Land Model version 5: Description of new features, benchmarking, and impact of forcing uncertainty. *Journal of*

⁺ * = ERSAM Lab student throughout CV; † = other student; [Q# - Category] = Quartile from SCImago Journal Rank in specific category for publication year, see www.scimagojr.com

- Advances in Modeling Earth Systems*. DOI: 10.1029/2018MS001583 [Q1 - Global & Planetary Change]
- 2019 **Dahlin KM**, Zarnetske PL & S Record. Hear every voice – Working groups that work. *Frontiers in Ecology & the Environment*. 17(9) 493-494. DOI: 10.1002/fee.2115 [Q1 - Ecology]
- 2019 Pearson AL, Shortridge A, Delamater PL, Horton TH, **Dahlin KM**, †Rzotkiewicz A, & MJ Marchiori. Effects of freshwater blue spaces may be beneficial for mental health: A first, ecological study in the North American Great Lakes region. *PLOS-ONE*. 14(8): e0221977 DOI: 10.1371/journal.pone.0221977 [Q1 - Medicine]
- 2019 Schrodtt F, Bailey JJ, Kissling WD, Rijdsdijk KF, Seijmonsbergen H, Ree Dv, Hjort J, Lawley RS, Williams CN, Anderson M, Beier P, Beukering Pv, Boyd DS, Brilha J, Carcavilla L, **Dahlin KM**, Gill JC, Gordon J, Gray M, Grundy M, Hunter ML, Lawler J, Monge-Ganuzas M, Royse KR, Stewart I, Record S, Turner W, Zarnetske PL & R Field. To advance sustainable stewardship, we must document not only biodiversity but geodiversity. *Proceedings of the National Academy of Sciences USA*. 116(33): 16155-16158. DOI: 10.1073/pnas.1911799116 [Q1 - Multidisciplinary]
- 2019 Reed DE, Chen J, Abraha M, Robertson GP & **KM Dahlin**. The shifting role of mRUE for regulating ecosystem production. *Ecosystems*. DOI: 10.1007/s10021-019-00407-4 [Q1 - Ecology]
- 2019 †Shiklomanov A, Bradley B, **Dahlin KM**, Fox A, Gough C, Hoffman F, Middleton E, Serbin SP, Smallman L & WK Smith. Enhancing global change experiments through integration of remote sensing techniques. *Frontiers in Ecology & the Environment*. 17(4): 215-224. DOI: 10.1002/fee.2031 [Q1 - Ecology]
- 2019 Zarnetske PL, Read QD, Record S, Gaddis K, Pau S, Hobi M, Malone SL, Costanza J, - **Dahlin KM**, Latimer A, Wilson AM, Grady JM, Ollinger S & AO Finley. Connecting biodiversity and geodiversity with remote sensing across scales. *Global Ecology & Biogeography*. DOI: 10.1111/geb.12887 [Q1 - Ecology]
- 2019 *Kamoske AG, **Dahlin KM**, Stark SC, and SR Serbin. Leaf area density from airborne LiDAR: Comparing sensors and resolutions in a temperate broadleaf forest ecosystem. *Forest Ecology & Management*. 433: 364-375. DOI: 10.1016/j.foreco.2018.11.017 [Q1 - Forestry]
- 2018 LaRue E, Atkins J, **Dahlin KM**, Fahey RT, Gough CM, & B Hardiman. Linking terrestrial LiDAR with Landsat: Canopy structural complexity is associated with vegetation indices and spectral reflectance. *International Journal of Applied Earth Observation and Geoinformation* 73: 420-427. DOI: 10.1016/j.jag.2018.07.001 [Q1 - Global & Planetary Change]
- 2018 **Dahlin KM** & TR Ault. Global linkages between climate variability and the terrestrial biosphere. *International Journal of Applied Earth Observation and Geoinformation*. 69: 56-63 DOI: 10.1016/j.jag.2018.02.017 [Q1 - Global & Planetary Change]
- Birth of second child in May 2017.*
- 2017 **Dahlin KM**, *Del Ponte D, *Setlock E & *R Nagelkirk. Global patterns of drought deciduous phenology in semi-arid and savanna-type ecosystems. *Ecography*. 40(2): 314-323. DOI: 10.1111/ecog.02443 [Q1 - Ecology] Ecography E4 Award Paper runner up.

- 2016 **Dahlin KM**. Spectral diversity area relationships for assessing biodiversity in a wildland-agriculture matrix. *Ecological Applications*. 26(8): 2758-2768. DOI: 10.1002/eap.1390 [Q1 - Ecology]
- 2015 **Dahlin KM**, Fisher RA & PJ Lawrence. Environmental drivers of drought deciduous phenology in the Community Land Model. *Biogeosciences*. 12: 5061-5074. DOI: 10.5194/bg-12-5061-2015 [Q1 - Earth-Surface Processes]
- 2015 Taylor PG, Asner GP, **Dahlin KM**, Anderson C, Knapp D, Martin R, Mascaro J, Chazdon RL, Cole RJ, Wanek W, Hofansel F, Malavassi E, Vilchez-Alvarado B, & AR Townsend. Landscape-scale controls on aboveground forest carbon stocks on the Osa Peninsula, Costa Rica. *PLOS-ONE*. 10(6): e0126748. DOI: 10.1371/journal.pone.0126748 [Q1 - Agricultural & Biological Sciences]
- 2015 Cleveland CC, Taylor P, Chadwick KD, **Dahlin KM**, Doughty CE, Malhi Y, Smith WK, Sullivan BW, Wieder WR & AR Townsend. A comparison of plot-based, satellite and Earth system model estimates of tropical NPP. *Global Biogeochemical Cycles*. 29(50): 626-644. DOI: 10.1002/2014GB005022 [Q1 - Global & Planetary Change]
- Birth of first child in May 2014.*
- 2014 **Dahlin KM**, Asner GP & CB Field. Linking vegetation patterns to environmental gradients and human impacts in a mediterranean-type island ecosystem. *Landscape Ecology*. 29(9): 1571-1585. DOI: 10.1016/j.jag.2018.07.001 [Q1 - Ecology]
- 2013 **Dahlin KM**, Asner GP & CB Field. Environmental and community controls on plant canopy chemistry in a Mediterranean-type ecosystem. *Proceedings of the National Academy of Sciences USA*. 110(17): 6895-6900. DOI: 10.1073/pnas.1215513110 [Q1 - Multidisciplinary]
- 2012 **Dahlin KM**, Asner GP & CB Field. Environmental filtering and land-use history drive patterns in biomass accumulation in a mediterranean-type landscape. *Ecological Applications*. 22:104-118. DOI: 10.1890/11-1401.1 [Q1 - Ecology]
- 2011 Mascaro J, Asner GP, Muller-Landau HC, van Breugel M, Hall J, & **KM Dahlin**. Controls over aboveground forest carbon density on Barro Colorado Island, Panama. *Biogeosciences*. 8:1615-1629. DOI: 10.5194/bg-8-1615-2011 [Q1 - Earth-Surface Processes]
- 2010 Bendick R, **Dahlin KM**, Smoliak BV, Kumler L, Jones SS, Aktipis A, Fugate E, Hertog R, Moberg C & D Scott. Choosing carbon mitigation strategies using ethical deliberation. *Weather, Climate, & Society*. 2: 140-147. DOI: 10.1175/2010WCAS1036.1 [Q4 - Social Sciences; new journal in 2010]

BOOK CHAPTERS

- 2020 Record S, **Dahlin KM**, Zarnetske PL, Read Q, Malone SL, Gaddis K, Grady JM, Costanza, J, Hobi M, Latimer A, Pau S, Wilson AM, Finley A, & S Ollinger. Remote sensing of geodiversity and biodiversity. In *Remote Sensing of Plant Biodiversity: Using spectral signals of plants to understand the biology and biodiversity of plants, plant communities, ecosystems, and the tree of life*. Cavender Bares J, Gamon J, & P Townsend (Eds) Springer Remote Sensing/Photogrammetry Series. DOI: 10.1007/978-3-030-33157-3
- 2018 Mitchell JJ, Glenn NF, **Dahlin KM**, Ilangakoon NT, Dashti H & MC Maloney. Integrating hyperspectral and LiDAR data in the study of vegetation. In *Hyperspectral Remote Sensing*

of Vegetation, Volume I, 2nd Edition. Thenkabail PS, Lyon JG, & A Huete (Eds) CRC Press - Taylor & Francis Group, New York & London. p. 449.

PUBLISHED DATASETS & CODE PACKAGES

- 2020 *Kamoske AG, **Dahlin KM**, Serbin SP, Stark SC. 2018 Talladega National Forest: Leaf level reflectance spectra and foliar traits. EcoSIS Spectral Library. <https://data.ecosis.org/dataset/2018-talladega-national-forest--leaf-level-reflectance-spectra-and-foliar-traits>
- 2020 Smith AC, Zarnetske PL, **Dahlin KM**, Wilson AM & AM Latimer. geodiv: Methods for calculating gradient surface metrics. R package. <https://cran.r-project.org/web/packages/geodiv/index.html>
- 2019 *Nagelkirk RL & **Dahlin KM**. Data from: Woody cover fractions in African savannas from Landsat and high-resolution imagery. Mendeley Data 1. DOI: 10.17632/26djkjgzhf.1
- 2018 **Dahlin KM** & TR Ault. GeoTIFFs for 'Global linkages between climate variability and the terrestrial biosphere' International Journal of Applied Earth Observations and Geoinformation, accepted. Figshare. DOI: 10.6084/m9.figshare.5948404
- 2016 **Dahlin KM**, Lepine LC, & SV Ollinger. Data from: Spectral diversity area relationships for assessing biodiversity in a wildland-agriculture matrix. Dryad Digital Repository. DOI: 10.5061/dryad.r5b51

GRANTS (FUNDED, EXTERNAL; TOTAL: \$1,828,164)

- 2019 US NSF GSS Doctoral Dissertation Research Improvement. *Doctoral Dissertation Research: Regional Ecogeographical Impacts of Large Herbivores on Savanna Ecosystems*. 8/1/2019-5/31/2021. **PI: KM Dahlin**, Co-PI: RL Nagelkirk (PhD candidate). \$17,994.
- 2018 USDA NIFA Alfalfa and Forage Research Program. *Precision agriculture tools for optimizing alfalfa production and marketing*. 9/30/2018-9/29/2021. PD: Kim Cassida (MSU Extension), Co-PDs: Y Newman (UWisc - River Falls), AP Nejadhashemi (MSU BAE), **KM Dahlin**. \$299,977.
- 2017 US NSF MacroSystems Biology. *MSB-ECA: Ecosystems in four dimensions: Measuring changes to forest structure and function in the Anthropocene*. 8/15/2017 - 7/31/2020. **PI: KM Dahlin**, Co-PIs: SC Stark (MSU FOR), SR Serbin (Brookhaven National Lab). \$299,950 + \$84,445 (supplement awarded 6/13/2019).
- 2017 US NASA Carbon Cycle Science. *Socioecological carbon production in managed agricultural-forest landscapes*. 1/13/2017 - 1/12/2020. PI: J Chen (MSU GEO), Co-Is: **KM Dahlin**, R John (MSU CGCEO). \$975,357
- 2016 US NASA Biodiversity. *Connecting biodiversity, geodiversity, and remote sensing across scales*. 8/12/2016 - 8/11/2019. PI: P Zarnetske (MSU FOR & FW), Co-Is: **KM Dahlin**, S Record (Bryn Mawr College). \$150,441.

GRANTS (FUNDED, INTERNAL; TOTAL: \$92,324)

- 2016 MSU ESPP VISTAS travel grant. *Linking intraspecific trait variation with ecosystem function at the continental scale*. P Zarnetske (MSU FOR & FW; lead), **KM Dahlin**, Q Read (MSU FOR), J Grady (Bryn Mawr College). \$2,324.

- 2015 MSU WaterCube. Group: **KM Dahlin** (lead), P Soranno, KS Cheruvellil, PL Zarnetske. \$20,000 per investigator, \$80,000 total.
- 2014 MSU ESPP-AgBioResearch ITBI. *A team for coupled human and environmental macrosystems (TeamCHEMS) in a changing globe.* Co-leaders J Chen & E Moran, team member: **KM Dahlin**, et al. \$10,000 total

INVITED SEMINARS & PANELS

- 2020 Environmental & Climate Sciences Department seminar, Brookhaven National Lab, NY (1/23/2020)
- 2019 Department of Forestry seminar, MSU, East Lansing, MI (10/22/2019)
NSF BIO Directorate Advisory Committee NEON User Panel speaker (9/20/2019)
Workshop Panelist: WK 31: Beyond Data: Navigating NEON Resources. Ecological Society of America Annual Meeting, Louisville, KY (8/15/2019)
Department of Geography seminar, University of California, Santa Barbara (2/14/2019)
- 2018 Department of Global Ecology seminar, Carnegie Institution for Science, Stanford, CA (5/15/2018)
Department of Forestry & Natural Resources seminar, Purdue University, West Lafayette, IN (3/27/2018)
- 2017 Department of Geography, University of Wisconsin, Madison: workshop and panel titled 'Graduate Professionalization in a Changing Institutional Climate' (3/10/2017)
Department of Biological Sciences seminar - student selected speaker, Wayne State University, Detroit, MI (11/13/2017)
- 2016 Ecology & Evolutionary Biology Department seminar, University of Michigan, Ann Arbor, MI (1/21/2016)
Geography Department seminar, Western Michigan University, Kalamazoo, MI (2/26/2016)
Ecology, Evolutionary Biology & Behavior Program seminar, Michigan State University, East Lansing, MI (4/28/2016)
- 2014 Geography Department seminar, Indiana University, Bloomington, IN (1/22/2014)
Geography Department seminar, University of Colorado, Boulder, CO (1/30/2014)
Biology Department seminar, University of New Mexico, Albuquerque, NM (2/13/2014)
Department of Geography seminar, Michigan State University, East Lansing, MI (2/27/2014)
Division of Geological and Planetary Sciences seminar, CalTech, Pasadena, CA (10/8/2014)
- 2013 National Ecological Observatory Network seminar, Boulder, CO (4/11/2013)
'Trailblazing: Stanford's Jasper Ridge and Global Environmental Challenges' talk, Stanford, CA (5/9/2013)
- 2012 Chevron Corporation seminar, San Ramon, CA (3/28/2012)
San Francisco Botanical Garden Society seminar, San Francisco, CA (7/14/2012)
- 2011 Jasper Ridge Biological Preserve Monthly Seminar, Woodside, CA (11/8/2011)

CONFERENCE PRESENTATIONS

(first author is presenting author unless otherwise indicated)

- 2020 **Dahlin KM**, *Kamoske AG, *Shen M, Serbin SP and SC Stark. A voxel based view of forest canopy function. Ecological Society of America (ESA) annual meeting. *Meeting held online and presentation given virtually due to COVID-19 pandemic.*
- 2020 Zarnetske PL, Record S, Baiser B, Strecker AL, Smith AC, Read QD, Van Doninick J, Knott J, **Dahlin KM**, Latimer AM, Wilson A & KM Thibault. Local- to continental-scale drivers of biodiversity across NEON. ESA annual meeting. *Meeting held online and presentation given virtually due to COVID-19 pandemic.*
- 2020 *Kamoske AG, **Dahlin KM**, Serbin SP, & Stark SC. Leaf functional diversity is not equivalent to canopy functional diversity: Mapping whole canopy traits with imaging spectroscopy and lidar fusion. European Geophysical Union General Assembly – *abstract accepted but not presented in person due to COVID-19 pandemic.*
- 2020 **Dahlin KM**, *Kamoske AG, Serbin SP, Stark SC. Mapping Plant Functional Diversity Within and Among Forest Canopies. World Biodiversity Forum, Davos, Switzerland. [KMD invited]
- 2019 **Dahlin KM**, *Akanga D, Lombardozzi D, Reed D, †Shirkey G, Abraha M, & J Chen. A watershed-scale approach to understanding socio-ecological systems: Combining multiple data streams to assess a land surface model. American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, USA. [KMD invited]
- 2019 *Kamoske AG, **Dahlin KM**, Serbin SR & SC Stark. Patterns and drivers of total canopy nitrogen (g/m^2) in a southeastern US mixed temperate forest: a three-dimensional remote sensing approach to ecosystem function. AGU Fall Meeting, San Francisco, CA, USA.
- 2019 Bond-Lamberty BP, CM Gough, Shiklomanov AN, Atkins JW, †Haber L, †Mathes KC, †Grigri MS, Tallant J, *Kamoske AG & **KM Dahlin**. Linking field, model, and remote sensing methods to understand when tree mortality breaks the forest carbon cycle. AGU Fall Meeting, San Francisco, CA, USA.
- 2019 Chen J, †Sciusco P, Xu D, Abraha M, Shao C, †Lei C, †Shirkey G, Karnieli A, John R, Dong G, Reed D, Li F, Henebry G, Wang X, **Dahlin KM**, & Xin X. Remote sensing modeling of ecosystem productivity and evapotranspiration: new insights from VEN μ S. The 4th COSPAR Symposium, Herzliya, Israel.
- 2019 **Dahlin KM**. Luring the NEON airborne observation platform away from NEON sites: an assignable asset odyssey. Ecological Society of America (ESA) Annual Meeting, Louisville, KY, USA. [KMD invited]
- 2019 Hardiman BS, LaRue EA, Atkins J, Gough CM, Fahey RT, **Dahlin KM**, Wagner F & S Fei. Understanding the influence of forest canopy structure on ecosystem functions at continental scales. ESA Annual Meeting, Louisville, KY, USA.
- 2019 LaRue EA, Dodds Wk, Rohr JR, **Dahlin KM**, Thorp JH, Johnson JS, Hardiman BS, Rodriguez-Gonzalez M, Keller M, Fahey RT, Knott J, SanClements MD, Atkins J, Tromboni F, Parker GG, Liu J, & S Fei. The evolution of macrosystems biology. ESA Annual Meeting, Louisville, KY, USA.

- 2019 Zarnetske PL, Smith A, Read QD, Record S, **Dahlin KM**, Latimer A, Costanza JK, Pau S, Gaddis K, Hobi ML & AM Wilson. Dimensions of biodiversity and geodiversity across scales. International Biogeography Society (IBS) Annual Meeting, Quito, Ecuador.
- 2019 Smith A, Zarnetske PL, **Dahlin KM**, Latimer A, Record S, Costanza JK, Pau S, Gaddis K, Hobi ML & AM Wilson. Using gradient metrics to determine landscape traits that enhance biodiversity. IBS Annual Meeting, Quito, Ecuador.
- 2019 **Dahlin KM**. Does understanding ecological diversity improve forecasts of the Earth system? NCAR/NEON Workshop: Predicting life in the Earth system: linking the geosciences and ecology. Boulder, CO, USA.
- 2019 †Komoto K, Soldo L, Winkler J, Tang Y, Chilvers M & **KM Dahlin**. A climatology of the frequency and duration of high relative humidity events for the lower peninsula of Michigan. Association of American Geographers (AAG) annual meeting, Washington, DC, USA.
- 2018 **Dahlin KM**, *Kamoske AG, Serbin SP & SC Stark. Within-canopy leaf functional traits from airborne remote sensing. AGU Fall Meeting, Washington, DC, USA. [*KMD invited*]
- 2018 **Dahlin KM**, Zarnetske PL, Record S, Read QD, Cooper LA, Costanza J, Finley A, Gaddis K, Grady JM, Hobi ML, Latimer A, Malone SL, Ollinger SV, Pau S & AM Wilson. Remotely sensed geodiversity for identifying and predicting biodiverse landscapes. AGU Fall Meeting, Washington, DC, USA.
- 2018 Hardiman B, LaRue E, Atkins J, Gough C, Fahey R, **Dahlin KM**, Wagner F & S Fei. Large-Scale Patterns and Landscape Variability of Forest Canopy Structure. AGU Fall Meeting, Washington, DC, USA.
- 2018 *Kamoske AG, **Dahlin KM**, Stark SC & SR Serbin. Leaf area density from airborne LiDAR: Comparing sensors and resolutions in a temperate broadleaf forest ecosystem. ForestSat 2018 Conference, College Park, MD, USA.
- 2018 *Nagelkirk RL & **KM Dahlin**. Woody cover through the trees: How much woody cover are we overlooking in African Savannas? ForestSat 2018 Conference, College Park, MD.
- 2018 **Dahlin KM**, *Kamoske AG, Serbin SP & SC Stark. Mapping leaf traits within and among forest canopies with airborne remote sensing. Ecological Society of America (ESA) annual meeting [*KMD invited*], New Orleans, LA, USA.
- 2018 LaRue EA, Atkins J, **Dahlin KM**, Fahey RT, Fei S, Gough CM & BS Hardiman. Linking Landsat to terrestrial LiDAR: Spectral indices of greenness and brightness are correlated with canopy structural complexity. ESA annual meeting, New Orleans, LA, USA.
- 2018 Record S, Read QD, Zarnetske PL, **Dahlin KM**, Costanza J, Gaddis K, Grady JM, Finley AO, Latimer AM, Malone S, Hobi ML, Ollinger S, Pau S & AM Wilson. The relationship between biodiversity and geodiversity along gradients of geodiversity and anthropogenic stress. ESA annual meeting, New Orleans, LA, USA.
- 2018 Stark SC, Prohaska N, Smith M, Shao G, Wu J, Albert L, **Dahlin KM**, Serbin SP & S Saleska. Towards remote estimation of phylloenvironments to assess forest function and dynamics in tropical forests. ESA annual meeting, New Orleans, LA, USA.

- 2018 †Twardochleb L, Read QD, Zarnetske PL, †Hiltner E, **Dahlin KM**, Cheruvellil K, Soranno P, & *A Kamoske. Scaling relationships between freshwater insect diversity and the terrestrial environment. Society for Freshwater Science annual meeting. Detroit, MI, USA.
- 2018 Reed DE, Chen J, Abraha M, Robertson GP & **KM Dahlin**. Multiple resource use efficiency (mRUE) in agriculture systems. 33rd Conference on Agricultural and Forest Meteorology. Boise, ID, USA.
- 2018 Read QD, Record S, **Dahlin KM**, Zarnetske PL, Malone SL, Gaddis K, Grady JM, Costanza J, Hobi ML, Latimer A, Pau S, Wilson AM, Finley A & S Ollinger. Geodiversity explains biodiversity. US International Association for Landscape Ecology annual meeting. Chicago, IL, USA.
- 2017 **Dahlin KM** & *RL Nagelkirk. Landscape- and regional scale controls on phenological diversity across East Africa. ESA annual meeting, Portland, Oregon, USA. [*KMD invited*]
- 2017 Record S, Zarnetske PL, **Dahlin KM**, Costanza JK, Finley AO, Gaddis K, Grady JM, Hobi ML, Malone S, Ollinger S, Pau S, Read QD, Turner W & AM Wilson. Connecting biodiversity, geodiversity, and remote sensing across scales. ESA annual meeting, Portland, Oregon, USA.
- 2017 **Dahlin KM** & *RL Nagelkirk. Modeling leaf phenological diversity across East Africa. Annual meeting of the Association for Tropical Biology and Conservation, Merida, Mexico. [*KMD invited*]
- 2017 Record S, Zarnetske PL & **KM Dahlin**. Connecting biodiversity, geodiversity, and remote sensing across scales. NASA Biodiversity Team meeting, Washington, DC, USA.
- 2017 Chen, J, **Dahlin KM**, John R, †Shirkey G, Wu SR, Robertson P, Hamilton S, Cooper L, Lusch D, Karnieli A, Laforteza R, & GS Labini. Socioecological Carbon Production in Managed Agricultural-Forest Landscapes. 2017 Joint NACP & AmeriFlux PI Meeting, North Bethesda, MD, USA.
- 2017 Chen, J, **Dahlin KM**, John R, †Shirkey G, Wu SR, Robertson P, Hamilton S, Cooper L, Lusch D, Karnieli A, Laforteza R, & GS Labini. Socioecological Carbon Production in Managed Agricultural-Forest Landscapes. Worldcover 2017 Conference, Rome, Italy.
- 2016 **Dahlin KM**, Swenson SC, Lombardozzi D & *A Kamoske. Seasonality of semi-arid and savanna-type ecosystems in an Earth system model. American Geophysical Union (AGU) Fall Meeting, San Francisco, California. [*KMD invited*]
- 2016 **Dahlin KM**, Asner GP, Mascaro J & P Taylor. Varying influence of environmental gradients on vegetation patterns across biomes. AGU Fall Meeting, San Francisco, California. [*KMD invited*]
- 2016 Hardiman BS, Atkins J, **Dahlin KM**, Fahey RT, & CM Gough. Canopy structural complexity influences forest canopy reflectance: linking terrestrial lidar with Landsat observations. AGU Fall Meeting, San Francisco, California.
- 2016 **Dahlin KM**, *Del Ponte D, *Setlock E & *R Nagelkirk. Global patterns of phenology in semi-arid and savanna-type ecosystems: a meta-analysis. ESA Annual Meeting, Ft. Lauderdale, Florida.
- 2015 **Dahlin KM** & TR Ault. Climate teleconnections and the biosphere. AGU Fall Meeting, San Francisco, California.

- 2015 **Dahlin KM**. Hyperspectral imagery for biodiversity mapping in a wildland-agriculture matrix. ESA Annual Meeting, Baltimore, Maryland.
- 2015 Wasser LA, Serbin SP, **Dahlin KM**, Roth KL, Leisso N & S Petroy. From point to pixel: Using in situ measurements to validate and derive higher level NEON hyperspectral data products. ESA Annual Meeting, Baltimore, Maryland.
- 2015 **Dahlin KM**, RA Fisher & PJ Lawrence. Ecological consequences of altering the drought deciduous phenology algorithm. Community Land Model Working Group Winter Meeting, Boulder, Colorado.
- 2014 **Dahlin KM**. What is hyperspectral remote sensing? An introduction (Ignite talk). ESA Annual Meeting, Sacramento, California.
- 2014 **Dahlin KM** & RA Fisher. Impacts of changing drought deciduous phenology in the Community Land Model. ESA Annual Meeting, Sacramento, California.
- 2014 **Dahlin KM** & RA Fisher. Stress deciduous phenology in the CLM. Community Land Model Working Group Winter Meeting, Boulder, Colorado.
- 2013 **Dahlin KM** & RA Fisher. Phenology of forest-grassland transition zones in the Community Land Model. AGU Fall Meeting, San Francisco, California.
- 2013 Townsend AR, Cleveland CC, Taylor PG, **Dahlin KM**, Wieder WR, Smith WK, Sullivan BW, Chadwick KD & CE Doughty. An inter-comparison of plot-scale, satellite and earth system model estimates of tropical net primary productivity. AGU Fall Meeting, San Francisco, California.
- 2013 **Dahlin KM** & RA Fisher. Seasonal patterns in forest-grassland transition zones predicted by the Community Land Model. ESA Annual Meeting, Minneapolis, Minnesota.
- 2013 **Dahlin KM** & RA Fisher. Seasonal vegetation patterns in the Community Land Model. 18th Annual Community Earth System Model Workshop, Breckenridge, Colorado.
- 2012 **Dahlin KM**, Asner GP & CB Field. Environmental controls on plant chemical traits: Using the CAO-VSWIR to characterize patterns in a mediterranean-type ecosystem. AGU Fall Meeting, San Francisco, California.
- 2012 **Dahlin KM**, Asner GP & CB Field. Remote sensing of canopy chemistry and community composition in a mediterranean-type landscape using high-fidelity imaging spectroscopy from the Carnegie Airborne Observatory. ForestSAT Conference, Oregon State University, Corvallis, Oregon.
- 2012 **Dahlin KM**, Asner GP & CB Field. Ecosystem assembly meets geostatistics: Using airborne remote sensing and simultaneous autoregression to understand vegetation patterns in a recently disturbed landscape. ESA Annual Meeting, Portland, Oregon.
- 2011 **Dahlin KM**, Anderegg W, Hernandez RR, Hiza N, Johnson JE, Maltais-Landry G, Wolf A & N Zimmerman. Prospects for integrating utility-scale solar photovoltaics and industrial agriculture in the U.S. AGU Fall Meeting, San Francisco, California.
- 2011 **Dahlin KM** & GP Asner. Plant species mapping using integrated airborne lidar and hyperspectral imagery across multiple functional groups. ESA Annual Meeting, Austin, Texas.

- 2011 Mascaro J, Asner GP, Muller-Landau HC, van Breugel M, Hall J & **KM Dahlin**. Controls over aboveground forest carbon density on Barro Colorado Island, Panama. ESA Annual Meeting, Austin, Texas.
- 2011 Klosterman S, **Dahlin KM**, Field C, Berry J, Hebert T, Easter S & R Genova. Using hyperspectral and digital camera images to quantify yellow star-thistle invasion of a California grassland eddy covariance site. Fluxnet Workshop, University of California, Berkeley.
- 2011 **Dahlin KM**, Asner GP & CB Field. Vegetation Patterns in California Ecosystems. Chi Conference, Stanford University, California.
- 2010 **Dahlin KM** & GP Asner. Integrated airborne remotes sensing and multiple endmember spectral mixture analysis (MESMA) for plant species mapping across multiple functional groups. AGU Fall Meeting, San Francisco, California.
- 2010 **Dahlin KM**, Asner GP & CB Field. Quantifying the effects of topography, substrate, and land-use history on aboveground biomass in a California ecosystem. ESA Annual Meeting, Pittsburgh, Pennsylvania.
- 2010 **Dahlin KM**, Bendick R, Kumler L, Aktipis A, Jones S, Smoliak B, Fugate E, Moberg C & D Scott. Using web-based tools and ethical deliberation to stabilize the climate. ST Global Conference, Washington, D.C.
- 2009 **Dahlin KM**, Asner GP & CB Field. Topographically mediated controls on aboveground biomass in a mediterranean-type climate. AGU Fall Meeting, San Francisco, California.
- 2008 **Dahlin KM**, Asner GP, Field CB & R Shaw. Using airborne remote sensing to map sweet fennel (*Foeniculum vulgare*) on Santa Cruz Island. California Invasive Plant Council Symposium, Chico, California.

OTHER WRITING

- 2018 U.S. DOE. "Disturbance and Vegetation Dynamics in Earth System Models: Workshop Report." DOE/SC-0196. Office of Biological and Environmental Research, U.S. Department of Energy Office of Science.
<https://tes.science.energy.gov/files/vegetationdynamics.pdf>
- 2017 *Nagelkirk R & **KM Dahlin**. "Myriad phenological strategies in dry ecosystems." *Ecography* Journal Blog: <http://www.ecography.org/blog/myriad-phenological-strategies-dry-ecosystems>
- 2008 Falxa-Raymond N, Wooley L, & **Dahlin KM**. "St Nicholas Park Urban Forest Management Plan." New York City Department of Parks & Recreation, Central Forestry & Horticulture Division.
- 2006 National Park Service. "Vegetation Community Classification: Mori Point, Golden Gate National Recreation Area."
- 2005 **Dahlin KM**. "Fort Greene Park Urban Forest Management Plan." New York City Department of Parks & Recreation, Central Forestry & Horticulture Division.
- 2004 **Dahlin KM**. "Crotona Park Urban Forest Management Plan." New York City Department of Parks & Recreation, Central Forestry & Horticulture Division.
- 2001 **Dahlin KM**. "A Walk on the Wild Side" *The Washington Post*, p. B10.

FIELD EXPERIENCE

Talladega National Forest, Alabama, and Oak Ridge National Lab, Tennessee (2018) Canopy foliar sampling for leaf traits

University of Michigan Biological Station (2016) Ground based LiDAR surveys

Jasper Ridge Biological Preserve, California (2008-2011). Plant biomass surveys, species mapping, and vegetation collection for chemical analysis

Santa Cruz Island, California (2007-2011). Week to month-long vegetation surveys

Golden Gate National Recreation Area, California (2005-2007). Invasive plant surveys, restoration planning and implementation, trail construction, historical preservation

Davis Mountains, Texas (Summer 2004). Vegetation surveys

Crotona Park, Bronx, New York (Summer 2003). Urban forest census

Hunua Range, New Zealand (Fall 2002). Plantation forest surveys

Hubbard Brook LTER, New Hampshire (Summer 2002). Forest surveys, soil sampling

TEACHING

COURSES @ MSU

(Student Instructional Rating System (SIRS) scores range from 1 to 5, 1 is best, 5 is worst based on average of 14 department-specific questions. Department average is ~1.9)

- GEO 324 Remote Sensing of Environment (4 credit hours)
 - SIRS 2019 [12 students]: 1.45
 - SIRS 2020 [19 students]: *in progress*
- GEO 401 Global Plant Geography (3 credit hours)
 - SIRS 2015 [6 students]: 1.21 (as Geography of Plants of North America)
- GEO 424 Advanced Remote Sensing (4 credit hours)
 - SIRS 2016 [15 students]: 1.24
 - SIRS 2017 [14 students]: 1.38
 - SIRS 2018 [23 students]: 1.40
 - SIRS 2019 [13 students]: 1.11
 - SIRS 2020 [10 students]: *not yet available*
- GEO 837 Remote Sensing of the Biosphere (3 credit hours)
 - SIRS 2016 [15 students]: 1.23
 - SIRS 2018 [13 students]: 1.32
- ISS 310 People and the Environment (4 credit hours)
 - SIRS 2017 [50 students]: 1.35
 - SIRS 2019 [25 students]: 1.52
- GEO 827 Digital Image Processing & Analysis – 2 guest lectures and labs (Fall 2015)
- GEO 221 Intro to Geographic Information – guest lectures (Fall 2017, 2018)

ADVISING & STUDENT COMMITTEES

Advisees

Manaswini Ganjam – Geography MS student (advisor, 2020 – present)

Meicheng Shen – Geography PhD student (advisor, 2019 – present)

Donald Akanga – Geography PhD student (advisor, 2018 – present)

Aaron Kamoske - Geography PhD candidate (advisor, 2016 - present)

Ryan Nagelkirk - Geography PhD candidate (advisor, 2015 - present)

Committees

Nan Nourn - F&W PhD student (tentative committee member, 2020 - present)

Colin Bailey - Entomology MS student (committee member, 2019 - present)

Kevin McKeehan - Geography PhD student (committee member, 2019 - present)

Ciara Hovis - F&W PhD candidate (committee member, 2019 - present)

Dan Wanyama - Geography PhD candidate (committee member, 2018 - present)

Beth Gerstner - F&W and EEBB PhD candidate (committee member, 2018 - present)

Amanda Kreuze - Geography PhD candidate (committee member, 2018 - present)

Gabriela Shirkey - Geography PhD student (committee member, 2018 - present)

Eric Clark - F&W PhD candidate (committee member, 2016 - present)

Graduated Students (* = ERSAM lab student or co-advisee)

Farshid Felfelani - CEE PhD (committee member, 2016 - 2019) *graduated*

Brad Peter - Geography PhD (committee member, 2016 - 2019) *graduated*

Kara Komoto - Geography MS (committee member, 2018 - 2019) *graduated*

*Gloria Desanker - Forestry MS (co-advised with Andy Finley, 2017 - 2018) *graduated*

Daphna Gadoth - Forestry MS (committee member, 2016 - 2017) *graduated*

Suyog Chaudhari - CEE MS (committee member, 2016 - 2017) *graduated*

Undergraduate Researchers

Sarah Igwe - Physiology undergraduate intern (June - August 2018)

Opal Jain - Plant Biology & Geography undergraduate intern (March - June 2018)

Logan Brissette - F&W undergraduate lab assistant (January - December 2017)

Emily Setlock - Geography undergraduate lab assistant (summer 2015)

SERVICE & OUTREACH

UNIVERSITY SERVICE

(^ = served as Affirmative Action representative)

- GeoCamp Faculty Attendee (August 22-23, 2019)
- GEO Graduate Admissions Committee (2018 - 2019)
- GEO ad hoc Faculty Expectations & Merit Committee (2018 - 2019)
- GEO Supporting Women in Geography (SWIG) faculty member (2015 - present)
- GEO Grad Student Presentation Competition Judge (2016 - present)
- GEO Meet the Faculty Co-Coordinator, fall semesters (2015 - 2018)
- GEO Awards Committee (2018)
- ESPP Fate of the Earth poster presentation judge (2018)
- ^GEO RS&GIS Director Search Committee (2017)
- GEO Department ad hoc IT Committee (2015 - 2016)
- ESPP Fate of the Earth Nominations Committee (2015)
- Research Associate (postdoc) hiring committees: ^J Chen Lab, Stark Lab, ^PL Zarnetske Lab

NATIONAL ECOLOGICAL OBSERVATORY NETWORK (NEON)

- Science, Technology, and Education Advisory Committee (STEAC) member (October 2019 – June 2020; resigned due to long term conflict of interest between MSU and Battelle Memorial Institute, which runs NEON)
- Airborne Sampling Technical Working Group member (2017- present; co-chair from November 2018 - present)
- LiDAR Sampling Technical Working Group member (2017- present)
- NEON-NCAR Joint Workshop participant (April 2019)
- Biogeochemistry Working Group member (2016-2017) – disbanded due to change in working group structure.
- ‘#WorkingWithData’ Institute Faculty Leader (June 21-25, 2016)

COMMUNITY LAND MODEL (CLM) @ NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

- Land model and biogeochemistry working group member (2012 - present)
- Named contributor to the development of CLM 5.0 (released in 2018)
- Participant in US Department of Energy sponsored workshop: ‘Disturbance and Vegetation Dynamics in Earth System Models’ (March 15-16, 2018; Gaithersburg, Maryland. ~30 attendees from DOE, NASA, and academia)
- CLM Tutorial Instructor on phenology and analyzing output in R (2014)

ECOLOGICAL SOCIETY OF AMERICA ANNUAL MEETING SESSION CHAIR/CO-CHAIR

- Organized Oral Session (OOS): Cutting-Edge Remote Sensing Applications in Ecology: Spanning Scales, Sensors, and Ecosystems. 2020 (co-chair)
- OOS: Cutting-Edge Remote Sensing Applications in Ecology: Spanning Scales, Sensors, and Systems. 2019 (co-chair)
- OOS: Cutting-edge remote sensing applications in ecology: Spanning scales, sensors, and ecosystems. 2018 (co-chair)
- Special Session: How can current and future satellite missions advance biodiversity science? 2017 (chair)
- Ignite Session (IS): Connecting remote sensing to biodiversity science in the Anthropocene. 2017 (co-chair)
- OOS: Cutting edge remote sensing applications in ecology: Spanning scales, sensors, and ecosystems. 2017 (co-chair)
- OOS: Airborne remote sensing for 21st century ecology 2016 (chair)
- OOS: Hyperspectral remote sensing data supports 21st century ecological research 2015 (co-chair)
- IS: Airborne Hyperspectral Remote Sensing of Terrestrial Ecosystems 2014 (chair)

ECOLOGICAL SOCIETY OF AMERICA SEEDS MENTOR

- SEEDS = Strategies for Ecology Education, Diversity, & Sustainability
- At-meeting mentor for undergraduate first-time attendees of the ESA Annual Meeting 2010-2013, 2015

PROPOSAL REVIEWER/PANELIST for AAAS, NSF, NASA, and others.

MANUSCRIPT REVIEWER for *Biogeosciences, Ecography, Ecological Applications, Ecology & Evolution, Ecosphere, Forest Ecology & Management, Forests, Frontiers in Ecology and the*

Environment, Frontiers in Plant Science, Global Biogeochemical Cycles, Global Ecology & Biogeography, International Journal of Geographical Information Science, Journal of Geophysical Research – Biogeosciences, Landscape Ecology, Methods in Ecology & Evolution, MSU ReCUR, Nature Communications, Nature Ecology & Evolution, New Phytologist, Proceedings of the National Academy of Sciences, Remote Sensing, Remote Sensing of Environment, Sensors, Trees – 10 reviews in 2015, 10 in 2016, 12 in 2017, 16 in 2018, 14 in 2019, 5 thus far in 2020.

ORGANIZATION MEMBERSHIPS: Ecological Society of America, American Geophysical Union, American Association of Geographers, Earth Science Women’s Network, 500 Women Scientists

PRESS

NEON (December 11, 2019) Looking for Missing Carbon in the Forest Canopy. National Ecological Observatory Network Blog.
<https://www.neonscience.org/observatory/observatory-blog/looking-missing-carbon-forest-canopy>

Pennisi, E (August 29, 2019) NSF’s huge ecological observatory is open for business. But tensions remain. *Science*. DOI: 10.1126/science.aaz3213 [KMD interviewed for and quoted in article]

Atkins, J (January 2, 2019) Episode 48: An interview with Kyla Dahlin. *Major Revisions Podcast*.
www.majorrevisionspodcast.com/episodes/ep-48-an-interview-with-kyla-dahlin

Kwok, R (April 3, 2018) Ecology’s remote sensing toolbox. *Nature*. 56: 137-138. DOI: 10.1038/d41586-018-03924-9 [KMD interviewed for and quoted in article]

PROFESSIONAL DEVELOPMENT

SPECIALIZED EDUCATION

CyVerse Foundational Open Science Skills online course (July-November 2020)

Project EDDIE (Environmental Data-Driven Inquiry & Exploration) Teaching Module Development Workshop (October 2019)

Intermediate Google Earth Engine Tutorial (December 2016), San Francisco, California
Extracting Information from LiDAR Data (October 2014), Exelis, Boulder, Colorado.

Preparing for an Academic Career in the Geosciences (July 2013). National Association of Geoscience Teachers, On the Cutting Edge Program, Boulder, Colorado.

Stanford Graduate School of Business Leadership Labs (July 2012). Stanford, California.

Complex Systems Summer School (June 2010). Santa Fe Institute, Santa Fe, New Mexico.

Debating Science: Practical Reason and the Climate Change Debate (August 2008). University of Montana, Missoula.

EcoQuest Applied Field Studies Program (Fall 2002). University of New Hampshire, Kaiaua, New Zealand.

MSU WORKSHOPS

2016

Write Winning Grant Proposals with Grant Writers’ Seminars and Workshops LLC
(1/7/2016)

CSS Mentoring Lunch: Juggling demands and managing your time: How to balance research, teaching, mentoring, and service as an early-career faculty member (3/17/2016)

2015

- Survive and Thrive in the MSU Tenure System (2/19/2015)
- Lilly Seminar: Promoting Students' Motivation and Engagement (3/25/2015)
- NSF Grant Writing Workshop (8/18/2015)
- Getting Started at MSU: Syllabus Design and Regulations to Protect Student Information (8/19/2015)
- Active Shooter and Emergency Response Training (8/21/2015)
- MSU New Faculty Orientation (8/25/2015)
- Technology Workshop (8/26/2015)

GRANTS, TEACHING, & SERVICE PRIOR TO 2015

GRANTS & FUNDING (PRE-2015)

- NSF Doctoral Dissertation Improvement Grant, 2011-2013, \$9,652
- EcoEvo Departmental Travel Funds, Stanford University, 2011, \$600
- AW Mellon Research Grant for research at Jasper Ridge Biological Preserve, Stanford University, 2008 & 2009, \$4,600
- Kennedy Graduate Fellowship, Stanford University, 2007-2009, *tuition & stipend*
- YSF&ES Scholarship, Yale School of Forestry & Environmental Studies, 2003-2004, \$5,000
- Summer Internship Fund, Yale School of Forestry & Environmental Studies, 2003, \$1,500
- Thoreau Research Fellowship, Environmental Studies Department, Yale University, 2002, \$800

TEACHING & SERVICE (PRE-2015)

Stanford University Teaching

- *GES 7a: Introduction to Wilderness Skills, guest lecture on Ecosystems of California. Fall 2011.*
- *BIO 44Y: Ecology Lab coordinating TA. Winter/Spring 2008, 2009 & 2011.*
- *BIO 125: California Ecosystems TA. Spring 2009.*

City College of San Francisco Instructor

- *Taught weekend-long field ecology courses: the Ecology of San Francisco Bay (Fall 2006 & 2007) and the Ecology of the Golden Gate National Recreation Area (Fall 2005 & 2006)*

Yale School of Forestry & Environmental Studies Teaching

- *Terrestrial Ecosystem Ecology TA. Fall 2003.*

NCAR Advanced Study Program

- *Girl Scouts at NCAR volunteer 2014*
- *Activities Committee 2012-2013*
- *Thompson Lecture Series Committee 2013-2014*

Stanford WISE Group member

- *Women in Science & Engineering group member 2008-2012*

Stanford University Earth Systems Undergraduate Research Advising

- *Advised five undergraduate students in research projects. Summers 2008, 2009, & 2011.*

Golden Gate National Parks Conservancy Volunteer Instructor

- *Taught orienteering & map reading to high school students who were part of a program to bring urban youth to the parks. Summer 2005-2007 & 2010.*