

Curriculum Vitae - Gil Bohrer

Professor

Department of Civil, Environmental & Geodetic Engineering, The Ohio State University
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EDUCATION

Duke University, Durham, NC	Civil & Environmental Engineering	PhD,	2007
Duke University, Durham, NC	Computer Sci. in Eng. & Medicine	Certificate,	2007
Ben Gurion University, Beer Sheva, Israel	Ecology	M.Sc., <i>Cum Laude</i>	2001
Ben Gurion University, Beer Sheva, Israel	Life Sciences	B.Sc., <i>Summa Cum Laude</i>	1998

ACADEMIC AND RESEARCH APPOINTMENTS

2013-Present Co-Director, Environmental Science Graduate Program, OSU
2018-Present Full Professor, OSU, Department of Civil, Environmental & Geodetic Engineering
2014-2018 Associate Professor, OSU, Department of Civil, Environmental & Geodetic Engineering
2008-2014 Assistant Professor, OSU, Department of Civil, Environmental & Geodetic Engineering
2007-2008 John & Elaine French Post-Doctoral Fellow, Harvard University Center for the Environment
2003 Visiting Researcher, University of Amsterdam, Institute for Biodiversity and Ecosystem Dynamics, Amsterdam, Holland
2002-2008 Graduate Research Assistant, Duke University, Civil & Environmental Engineering
2000-2002 Researcher and Algorithm Developer, SupplyScience LTD (Currently part of NCR), Nathania, Israel.

RESEARCH INTERESTS

Ecohydrology; Environmental Fluid Dynamics; Eddy Flux Measurements; Evapotranspiration; Greenhouse gas emissions and modeling; Large-Eddy Simulations; Wind Dispersal and Movement Ecology; Multi-Scale Modeling; Wetlands; Forests.

AWARDS AND FELLOWSHIPS

Hebrew University, Lady Davies Fellowship Trust, Jerusalem, Israel, Jacob and Lena Joels Memorial Foundation Visiting Professor in the Life and Medical Sciences Fund Award, 2-6/2016.
Karlsruhe Institute of Technology, Institute of Meteorology and Climate Atmospheric and Environmental Research (IMK-IFU), Garmisch-Partenkirchen, Germany, MICMoR Visiting Scientist Fellowship, 5-11/2015
Ohio State University College of Engineering, Lumley Interdisciplinary-Research Award (with Peter Curtis), 2014.
Advances in Water Resources, Certificate of Excellence in Reviewing, 2014.
Ohio State University College of Engineering, Lumley Research Award, 2012.
American Geophysical Union, Editors' Citation for Excellence in Refereeing for JGR-Biogeosciences. 2011 (announced 10/2012).
PADI Foundation Research Award (#181) – Project Title: *Eddy-flux measurements of evaporation from the coral-reef lagoon in the red sea*. 2009, \$4,400.
Harvard University, Center for the Environment, John & Elaine French Fellowship, 2007-2008.

TEACHING AND MENTORING

Graduate Courses

ENVSCI7899 – Environmental Science Graduate Program Seminar, OSU, Fall 2013-2018; Spring 2014-2018; Summer 2016.
ENV6220 – Data Analysis, OSU, Fall 2016-2018.
ENV5880 – Environmental Engineering Seminar, OSU, Spring 2013-2018.
90890 Movement Ecology, Determining the Environmental Drivers of Movement, Department of Ecology, Evolution and Behavior, Hebrew University, Jerusalem, Israel, 2/2016.
Summer School 2015 'Modeling of Land Surface-Atmosphere Interactions' – MICMoR fellowship

program, Karlsruhe Institute of Technology, Institute for Environmental Research, Garmisch-Partenkirchen, Germany, 8/2015.

CE885 – Measurements and Modeling of the Atmospheric Boundary Layer, OSU, Spring 2010; 2012.

CE817 – Applied Mathematical Ecology, OSU, Spring 2011.

CE719 Environmental Quality Modeling. OSU, Spring 2009.

Undergraduate Courses

ENV5217 Applied Mathematical Ecology, OSU, Spring 2018.

ENV5218 Measurements and Modeling Climate Change, OSU, Spring 2017.

ENV5130 Applied Hydrology, OSU, Fall 2016-2018.

ENV618 (5310) Ecological Engineering, OSU, Winter 2010; 2011; 2012; Spring 2013; 2014; 2015.

CE516 (3160) Water Resources Engineering, OSU, Spring 2012; 2013; 2014; 2015 Fall 2013; 2014.

CE406 Fundamentals of Civil Engineering Analysis. OSU, Winter 2009, 2010, 2011.

Academic Mentor

Post-Doc: Jorge Villa (2/2018-); Golnazalsadat Mirfenderesgi (8/2017-5/2018); Ashley Matheny (8/2016-8/2017); Kay Stefanik (5/2014-8/2015); Renato Frasson (1/2012-6/2015); Johnny Wilson (4-9/2014); Somayeh Dodge (2/2012-8/2013); Steve Garrity (6/2010-5/2011); Vasilias Velissariou (1-9/2010).

PhD: Yang Ju (ESGP, 2017-), Chante' Vines (CEGE, 8/2015-); Andres Rey-Sánchez (ESGP, 8/2014-); Golnazalsadat Mirfenderesgi (CEGE, 8/2013-8/2017); Tim Morin (ESGP, 6/2012-4/2017); Ashley Matheny (CEGE, 8/2012-8/2016); William Kenny (ESGP, 9/2010-8/2015); Efthalia Chatziefstratiou (ESGP, 9/2010-12/2014); Kyle Maurer (CEGE, 8/2011-5/2012).

Masters: Theresia Yazbeck (CEGE, 8/2017-); Miriam Handler (ESGP, 1/2017-); Andres Rey-Sánchez (CEGE, 8/2016-5/2018); Krystaal McClain (ESGP, 8/2013-8/2015); Liel Naor-Azrieli (ESGP, 9/2010-8/2013); Ashley Matheny (CEGE, 9/2009-4/2013); Kyle Maurer (CEGE, 6/2009-8/2011); Dekel Shlomo (CEGE, 9/2009-8/2011); Kunpeng Zhu (CEGE, 1/2010-8/2011); Anthony Bova (CEGE, 9/2008-6/2010).

Undergraduate Research Projects: Kateland Kirk (5-8/2018); Timothy Becker (5-8/2018); Tasmina Uddin (5-8/2018); Taylor Stephen (SRP, UMBC, 6-8/2018); Brian Cassidy (5/2017-12/2017); Dominique Haddad (6/2016-9/2017); Anna Thompson (4-12/2017); Lisa Sartin (1-5/2017); Tyler Freeman (1-5/2017); Austin Rechner (5/2016-8/2017); Mathew Wright (6-11/2016); Miriam Handler (3/2015-11/2016); Noah Portman (6-9/2015); Renee Obringer (Env Honors thesis, 9/2013-4/2015); Grace Debbeler (5/2013-4/2015); Alyssa Wunderlich (5/2014-8/2014); Joshua Funk (8/2013-12/2013); Michele Kingrey (4/2012-5/2013); Scott Mesi (8/2011-4/2013); Ding Lu (ENR, 9-12/2012); Phoebe Low (3-5/2012); Hilary Brooks (4-6/2012); Gregory Scannell (1-5/2012); Julia Thomsen (NSF REU UMBS, 6-11/2011); Robert Jones (6/2009-12/2011); Kevin Meyer (NSF REU UMBS, CE Honors thesis, 6/2009-6/2010); Ashley Matheny (NSF REU, 6-8/2009).

Research Supervisor: Sarah Davidson (Research Eng., 1/2013-12/2014; 1/2016-); Lu Xia (Visiting Researcher, 8/2013-7/2014); Kyle Maurer (Research Eng., 7-9/2013); Rhea-Sung Kim (GRA, 9/2012-5/2013); Jelle Treep (Intern, U of Amsterdam, 10-12/2012); Fabian Schlegel (Intern, Dresden U. 7-9/2012); Corey Frasson (NSF RET, 6-9/2012); Anthony Bova (Research Eng., 2-6/2012); Ravishankar Subramanian, (GRA, Comp Sci. 3/2008-4/2010).

PhD Thesis Committee Member: Hanyang Li (ESGP-); Yangyang Zou (CEGE-); Dylan Wood (CEGE-); Yilong Xiao (CEGE-); Anna Apostel (FABE-); Christopher Eidson (ESGP-); Jonathan Ogland-Hand (ESGP-); Jordan Angel (Microbiology, 5/2018); Yaoping Wang (ESGP, 8/2018); Mike Brooker (ESGP, 12/2017), Alex Fotis (EEOB, 8/2017); Colton Conroy, (CEGE, 11/2014); Lingli He (CEE, U of Mich 6/2014); Jorge Villa-Betancor, (Co-Supervisor, ESGP, 4/2014); Brady Hardiman (EEOB, 6/2012); Kay Stefanik (ENR, 5/2012); Panagiotis Velissariou (CEGE, 10/2008); James Mandel (EEB Cornell, 6/2009);

Master's Committee Member: Samantha McCabe (ESGP-); Kristie Stein (SENR, 8/2018); Yushan Hao (ESGP, 8/2018); Chenyuan Yang (CEGE, 5/2018); Lindsey Solden (Microbiology, 3/2018); Kelsey Hunter (CEGE, 10/2017); Dominik Mattioli (CEGE, 8/2017); Anna Apostel (CEGE, 7/2016); Allison Cody (CEGE, 7/2016); Maria Yaufman (CEGE 5/2016); Rachel Sebian (CEGE, 4/2016); Qicheng Peng (ESGP, 11/2015); Christopher Eidson (ESGP, 5/2015); Yaoping Wang (ESGP, 11/2014); Drew Browning (CEGE, 8/2014); Matt Shilling (CEGE 5/2014); Angela Nappi (CEGE, 12/2013); Michael Brooker (ESGP, 8/2013; CECE, 10/2017); David Dibling (CEGE 11/2012); Patrick Wilson (CEGE

3/2012); Connor Flynn, (EEOB, 5/2012); Ying Wang (CEGE 12/2011); Ashley Maggi (CEGE, 4/2011); Colton Conroy, (CEGE, 3/2011); Admas Awoke (CEGE, 5/2009)
NSF-IGERT-BART (UM UMBS) Fellowship Program Mentor (2007-2011): Kyle Maurer; Kellen Calinger; Brady Hardiman.

Primary and Middle School Teacher

"Eichut" Creative Learning (supported by "Keren Karev" – *Andrea and Charles Bronfman Foundation*). Nature and environment through art, 1995-1997.

Outdoor-Skills Group Instructor

The Memorial Society for Uri Maymon, and Israeli Society for Protection of Nature. Environmental education initiatives in conservation and outdoors skills for high-school students, 1989-2000.

RESEARCH FUNDING

Active Grants

(\$My direct expenditure portion)

1. NSF - Conference: Linking remote animal detection and movement data and macrosystem environmental datasets and networks (Co-PI) with David Luther (PI, George Mason U), Bill McShea (Smithsonian). 2018-2019. \$47,604 (\$1800).
2. USDA-NIFA (20186701927803) - Modeling fluxes, fate and transport of ammonia emission from egg production and manure management facilities (Co-PI) with Lingying Zhao (PI, FABE). 2018-2020. \$497,000 (\$17,416).
3. Ohio Water Development Authority (7880) - Predictive modeling of nutrient and carbon processing in wetlands – linking hydrology, water quality and microbial processes (PI) with Kelly Wrighton (Microbiology), Lauren Kinsman-Costello (Kent State). 2017-2019. \$199,925 (\$80,000).
4. US Department of Energy (DE-SC0018170) - Accounting for hydrological and microbial processes on greenhouse gas budgets from river systems (Co-PI) with Kelly Wrighton (Microbiology), James Stegen (PNNL). 2017-2018. \$180,000 (\$90,000).
5. US Forest Service (17-CR-11242302-050) - *Soil Heating in Sandy Ecosystems in the Southeastern US and Northern Wisconsin - Presence of Duff Violates a Key Assumption of the First Order Fire Effects Model's Soil Heating Module* (PI). 2017-2020. (\$15,070).
6. Ohio Water Resources Center (G16AP00076) - *Bog HELPR: Bog history, ecosystem status and land-use for peatland restoration in Ohio* (Co-PI) with Matt Davies. 2017-2019. \$28,123. (\$14,000).
7. NSF Biological Infrastructure (1564380) - *Collaborative research: ABI Sustaining: The Environmental-Data Automated Track Annotation (Env-DATA) system* (PI) with Sarah Davidson, OSU, Roland Kays, NCSU. 2016-2019. \$451,042. (\$337,474).
8. NASA ABoVE (NNX15AT91A) – *Animals on the move: Remotely based determination of key drivers influencing movements and habitat selection of highly mobile fauna throughout the ABoVE study domain* (Co-PI, Institutional PI), with Natalie Boelman (PI), Columbia U, Jan Eital, Lee Vierling, U Idaho, Laura Prugh, U Washington, Mark Hebblewhite, U Montana, 2015-2018, \$1,536,289, (\$77,481)
9. NSF-Hydrological Science (1521238) – *Including tree water storage dynamics in modeling of stomatal conductance* (PI), with Ashley Matheny, UT Austin. 2015-2019, (\$496,537).
10. NSF-CBET (1508994) – *Collaborative Research: Measurement and modeling of the pathways of potential fugitive methane emissions during hydrofracking*. National Science Foundation (PI, lead institution), with Jeffrey Bielicki, Zuzana Bohrerova, OSU, Jaclyn Matthes, Wellesley College, Derek Johnson, West Virginia U, 2015-2019, \$330,000 (\$175,813).
11. US Department of Energy-Ameriflux (through Lawrence Berkeley National Laboratory, 7096915) – *UM Biological Station Ameriflux Core Site Project* (PI), with Peter Curtis, OSU, Chris Gough, Virginia Commonwealth U., Knute Nadelhoffer, U. of Mich. 2013-2020, \$1,646,900 (\$587,460).

Completed Projects

12. Avangrid (PO 4503947933) - *The Dynamics of Ice Throws from Wind Turbine Rotors* (PI). 2017-2018. (\$9,900).
13. OSU OARDC (2016-055 SEEDS) - *PRO Peat Bog: indicators for assessing the Potential for Restoration of Ohio's Peat Bog ecosystems*. (Co-PI) with Matt Davies, Virginia Rich, OSU. 2016-2018. \$98,184 (\$17,463).

14. NSF Behavioral & Cognitive Sciences (1560727) - Conferences: *Advancing movement and mobility Science by bridging research on human mobility and animal movement ecology*. (Co-PI), with Harvey Miller (PI), OSU, Jennifer Miller, U TX. 2016-2018. \$57,184 (\$28,592).
15. Ohio Water Development Authority (6560) – *Observations and modeling of wetland methane emissions* (PI) 2013-2018, (\$164,495).
16. Ohio Water Development Authority (6835) – *Opening the microbial black box: Identifying microbial enzymatic control on carbon stability in Ohio Wetlands* (co-PI), with Kelly Wrighton (PI), 2014-2017, \$197,882 (\$15,000).
17. Ohio Water Resources Center (G16AP00076) – *Baseline measurements of methane emissions from Piedmont Lake - current and future fracking area* (PI) 2016-2017. (\$51,207)
18. Ohio Water Resources Center (6300) – *Baseline measurements of methane emissions from rivers and lake waters in the proposed site of the OSU hydrofracking research station* (PI), 2015-2018, (\$5,290).
19. NSF-BIO Behavioral System (IOS-1145952) – *Collaborative Research: Modeling movement and survival of intercontinental songbird migrants crossing the Gulf of Mexico* (co-PI, Institutional PI), with Jill Deppe (PI), Eastern Illinois University, Thomas Benson, UIUC, Robert Diehl, USGS, Northern Rocky Mountain Science Center, Frank Moore, U. South. Miss., 2012-2016, \$853,533, (\$41,497).
20. USGS (G14AC00091) – *Improve wildlife species tracking: Implementing an improved GPS capture and delivery system for California condors* (co-Investigator), with Robert Waltermire (PI), USGS, CO, Pat Lineback, Joseph Brandt, USFWS. 2014-2015, \$93,261, (\$15,079).
21. US Department of Energy-BER-Terrestrial Carbon Cycle Research (DE-SC0007041) – *Effects of disturbance on carbon sequestration in the New Jersey Pine Barrens* (Co-PI, Institutional PI, Sub-contract through Rutgers, with Karina Schäfer (PI), Rutgers, Nick Skowronski and Ken Clark, USDA Forest Service, NJ, 2011-2015, \$518,000, (\$263,140).
22. NSF CBET (CBET-1033451) – *Collaborative research: Greenhouse gas balance of temperate urban wetlands*, (co-PI, Institutional PI), With Karina Schäfer (PI), Rutgers University, William Mitsch, OSU, Mei Yin Wu, Montclair College. 2010-2015, \$321,000, (\$62,221).
23. US Department of Energy-BER-Terrestrial Carbon Cycle Research (DE-SC0006708) – *Forecasting carbon storage as eastern forests age: joining experimental and modeling approaches at the UMBS AmeriFlux site* (co-PI) with Peter Curtis (PI), OSU, Chris Gough, Virginia Commonwealth U., Knute Nadelhoffer, U. of Mich., 2011-2014, \$1,030,766, (\$250,718).
24. NASA-ROSES – Biodiversity and Ecological Forecasting (NNX11AP61G) – *Type B (application): Discovering relationships between climate and animal migration with new tools for linking animal movement tracks with weather and land surface data* (PI) with Roland Kays, NC State Museum, David Douglas, USGS, AK, Jiawei Han, UIUC, David Brandes, Lafayette College, Martin Wikelski, Max Planck Institute, Germany, 2011-2014, \$682,805, (\$612,296).
25. NOAA-CPO (NA11OAR4310190) – *Improving process-level understanding of the factors underlying long-term trends and year-to-year variability in carbon sequestration of northeastern forests* (co-PI, Institutional PI), with Andrew Richardson (PI), William Munger, Harvard U., Peter Curtis, OSU, Danilo Dragoni, Indiana U., David Hollinger, USDA FS, NH, 2011-2014, \$524,736 (\$45,000).
26. Ohio Water Resources Center (G11AP20099-2012OH259B) – *Green-House-Gas budget of constructed wetlands: Understanding the sources to maximize benefits* (PI), 2012-2014, (\$25,677).
27. NSF-CBET (CBET-1311547) – *Collaborative Research: RAPID: Impact of disturbance from hurricane Sandy on methane emission and carbon sequestration rates in NJ coastal wetlands* (co-PI, Institutional PI), with Alper Yilmaz, OSU, Karina Schäfer (PI), Rutgers U., Peter Jaffe, Princeton U., 2012-2013, \$192,141, (\$70,200).
28. Ohio Water Resources Center (G11AP20099- 2011OH205B) – *The constructed wetland dilemma: Nitrogen removal at the expense of methane generation?* (Co-PI), with Paula Mouser (PI), OSU. 2011-2014, \$29,953, (\$5,000).
29. International Arid land Consortium (10R-05) – *Mitigating aeolian erosion from dry Aral Sea bed with Haloxylon plantations*. (Consultant Sub-contract, through UIUC), with Somnath Baidya Roy (PI), UIUC, Sergei Volis, Nikolai Orlovski, Ben Gurion U, Israel, 2011-2012, \$85,601, (\$3582).
30. US Department of Agriculture-NIFA-AFRI (CSREES-OHOR-2009-04566) – *Large eddy simulations of PM dispersion to quantify the effects of windbreaks on air quality around CAFOs*. (PI), With Barbara Wyslouzil, Lingying Zhao, OSU, William Eichinger U Iowa. 2010-2013, (\$399,961).

31. US Forest Service, Delaware, OH (09-CR-11242302-033) – *Physical models of fire behavior and effects in eastern mixed-oak forests* (PI), with Matthew Dickinson, USFS, 2009-2014, (\$120,937).
32. US Forest Service, East Lansing, MI, Joint Research Venture Agreement (10-JV-11242302-013) – *Smoke dispersion from low intensity fires: Large eddy simulations using RAFLES* (PI), with Warren Heilman, USFS, 2009-2013, (\$94,663).
33. NSF Ecosystem Science (DEB 0911461) – *Collaborative research: Linking heterogeneity of above-ground and subsurface Processes at the gap-canopy patch scales to ecosystem level dynamics.* (Co-PI, Institutional PI), with Valery Ivanov (PI), and Mahta Moghaddam, U of Mich., 2009-2013, \$576,709, (\$237,293).
34. NSF Ecological Biology (DEB-0918869) – *Collaborative research: How structural heterogeneity and connectivity of landscapes affect wind dispersal.* (Co-PI, Institutional PI), With Ellen Damschen (PI), Jay Turner and Dirk Baker Washington U. in St. Louis. 2009-2012, \$165,085, (\$24,412).
35. US Department of Energy-NICCR (DE-FC02-06ER64158) – *Disturbance, succession and forest carbon dynamics: a large-scale experiment at the University of Michigan Biological Station* (Co-PI) with Peter Curtis (PI), OSU, Chris Gough, Virginia Commonwealth U, Chris Vogel, U. of Mich., 2009-2011, \$450,952, (\$115,267).
36. Institute for Energy and the Environment, OSU – Identification and optimization of potential locations for wind-power turbines on the OSU campus (PI), with Peter Curtis. 2009-2010, (\$49,729).

Training Grants

37. DOE Office of Science Graduate Student Research (SCGSR) Fellowship - *Multiple-scale parameterization of CLM4.5bgc* (PI, research supervisor). With Timothy Morin (Trainee), Bill Riley (Co-supervisor), LBNL. 2016-2017, (\$29,000).
38. NSF Environmental Biology Doctoral Dissertation Improvement Grant (1601224) - *The nexus of observation and modeling of methane emissions from inland water bodies* (PI, thesis supervisor). With Timothy Morin (Trainee). 2016-2017, (\$19,056).
39. NASA Earth and Space Science Fellowship (NNX11AL45H) – Training Grant for graduate student William Kenny – *Modeling the effect of high-resolution land-surface heterogeneity and forest structure on emission, chemistry, and dispersion of volatile organic compounds and reactant species* (PI, research supervisor). 2011-2014, (\$90,000).
40. NASA Earth and Space Science Fellowship (NNX09AO26H) – Training Grant for graduate student Anthony Bova – *Incorporating the effects of tree-scale land-surface heterogeneity on litter moisture for use in regional models of wildland fire dynamics and fire risk.* (PI, research supervisor), 2009-2011, (\$58,365).
41. NSF-IGERT-BART – Training Grant (sub contract through UMBS from NSF-DGE-0504552) for graduate student Kyle Maurer – *Incorporating Effects of Remote-Sensed Tree-Scale Structural Heterogeneity of Forests on Flux Exchanges and Atmospheric Surface Layer Properties.* (PI, research supervisor and BART mentor), 2009-2011, (\$57,000).
42. NSF - REU (supplement for DEB 0911461) (PI, research supervisor). 2010, (\$7,500).
43. NSF - RET (supplement for DEB 0911461) (PI, research supervisor). 2012, (\$14,925).

Supercomputer and Lab Resources Allocation Grants

44. *Department of Energy* – EMSL – Biogeochemical and genomic determinants of methane cycling in freshwater wetland sediments. (Co-PI) With Kelly Wrighton (PI), Paula Mouser, Chris Miller. 2016-2018 (laboratory analysis resources).
45. Ohio Supercomputer Center – computational resource allocation grant (PAS0409-4) – *Virtual laboratory for tree-water-atmosphere interactions* (PI), 2013-2018, (100,000 Computational Units).
46. Great Lakes Consortium for Petascale Computation – Scaling the effects of intermediate disturbance and changes to small-scale ecosystem structure on ecosystem, hydrology, lake and weather interactions to the scale of the great-lakes region (PI), 2013-2014, (1,000,000 Computational Units).
47. Ohio Supercomputer Center – computational resource allocation grant (PAS0626) – *Discovering relationships between climate animal movement with new tools for linking movement tracks with remote-sensing land-surface data* (PI), 2012-2015, (100,000 Computational Units).
48. Ohio Supercomputer Center – computational resource allocation grant (PAS0409-2) – *Linking heterogeneity of above-ground and subsurface processes at the gap-canopy patch scales to ecosystem level dynamics* (PI), 2011-2013, (100,000 Computational Units).

49. Ohio Supercomputer Center – computational resource allocation grant (PAS0409-1) – *Large Eddy simulations for incorporating the effects of tree-scale structural heterogeneity of forests on flux exchange and atmospheric surface layer properties* (PI), 2009-2011, (30,000 Computational Units).

PUBLICATIONS

Overall Summary

Published/in-press/accepted journal papers 104; proceedings full/short papers 6; book chapters 3.

H-index: 29; Total citations: 3228; non-self: 2937 (Thomson-Reuters Web of Science, 6/25/2018)

Co-author affiliations:

* - my student/post-doc/technician; + - Co-supervised by me as a thesis committee member;

^ - my contribution as a flux-site PI to an Ameriflux/Fluxnet/NACP multi-site synthesis study.

Peer-Reviewed Journal Publications

1. Atkins J, Bohrer G, Fahey R, Hardiman BS, Morin* TH, Stovall A, Zimmerman N, Gough C. 2018. Quantifying vegetation and canopy structural complexity from terrestrial LiDAR data using the forestR R package. *Methods in Ecology and Evolution* (in press, available on-line, <https://besjournals.onlinelibrary.wiley.com/doi/abs/10.1111/2041-210X.13061>).
2. Pappas C, Matheny* AM, Baltzer JL, Barr A, Black TA, Bohrer G, Detto M, Maillet J, Roy A, Sonnentag O, Stephens J. (2018) Boreal tree hydrodynamics: asynchronous, diverging, yet complementary. *Tree Physiology* 38:953–964 <https://doi.org/10.1093/treephys/tpy043>
3. Rey-Sánchez* AC, Morin* TH, Stefanik* KC, Wrighton K, Bohrer G. (2018) Determining total emissions and environmental drivers of methane flux in a Lake Erie estuarine marsh: The Old Woman Creek Wetland. *Ecological Engineering* 114:7-15 <https://doi.org/10.1016/j.ecoleng.2017.06.042>
4. Morin* TH, Rey-Sánchez* AC, Vogel CS, Matheny* AM, Kenny* WT, Bohrer G. (2018) Carbon dioxide emissions from an oligotrophic temperate lake: An eddy covariance approach. *Ecological Engineering* 114:25-33 <https://doi.org/10.1016/j.ecoleng.2017.05.005>
5. Fotis+ A, Morin* TH, Fahey RT, Hardiman+ BS, Bohrer G, Curtis PS. (2018) Forest structure in space and time: biotic and abiotic determinants of canopy complexity and their effects on net primary productivity. *Agricultural and Forest Meteorology* 250-251:181-191. <https://www.sciencedirect.com/science/article/pii/S0168192317306718>
6. Rey-Sánchez* AC, Bohrer G, Morin* TH, Shlomo* D, Mirfenderesgi* G, Gildor H, Genin A. (2018). Evaporation and CO₂ fluxes in a coastal reef: Comparing eddy covariance measurements to model estimates. *Ecosystem Health and Sustainability* 3(10):1392830 <http://www.tandfonline.com/doi/full/10.1080/20964129.2017.1392830>
7. Angle+ J, Morin* TH, Solden L, Narrowe A, Smith G, Bortin M, Rey-Sánchez* AC, Daly R, Mirfenderesgi* G, Hoyt D, Riley W, Miller C, Bohrer G, Wrighton K. (2017) Methanogenesis in oxygenated soils is a substantial fraction of wetland methane emissions. *Nature Communications* 8: 1567. DOI:10.1038/s41467-017-01753-4 <https://www.nature.com/articles/s41467-017-01753-4>
8. Matheny* AM, Garrity* SR, Bohrer G. (2017) The calibration and use of capacitance sensors to monitor stem water content in trees. *Journal of Visualized Experiments* e57062, DOI:10.3791/57062 <https://www.jove.com/video/57062>
9. Yan H, Wang SQ, Yu KL, Wang B, Yu Q, Bohrer^ G, Billesbach D, Bracho R, Rahman AF, Shugart HH. (2017) A novel diffuse fraction-based two-leaf light use efficiency model: An application quantifying photosynthetic seasonality across 20 AmeriFlux flux tower sites. *Journal of Advances in Modeling Earth Systems*. 9:2317-2332 <http://onlinelibrary.wiley.com/doi/10.1002/2016MS000886/full>
10. Kenny* WT, Bohrer G, Morin* TH, Vogel CS, Matheny* AM, Desai AR. (2017) A numerical case study of the implications of secondary circulations to the interpretation of eddy-covariance measurements over small lakes. *Boundary-Layer Meteorology* 165:311-332 <https://link.springer.com/article/10.1007/s10546-017-0268-8>
11. Montané F, Fox AM, Arellano AF, MacBean N, Alexander MR, Dye A, Bishop DA, Trouet V, Babst F, Hessel AE, Pederson N, Blanken PD, Bohrer^ G, Gough CM, Litvak ME, Novick KA, Phillips RP, Wood JD, Moore DJP. (2017) Evaluating the effect of alternative carbon allocation schemes in a land surface model (CLM4.5) on carbon fluxes, pools and turnover in temperate forests.

Geoscientific Model Development 10:3499-3517 <https://www.geosci-model-dev.net/10/3499/2017/gmd-10-3499-2017.html>

12. Matheny* AM, Fiorella RP, Bohrer G, Poulsen CJ, Morin* TH, Wunderlich* A, Vogel CS, Curtis PS. (2017) Contrasting strategies of hydraulic control in two co-dominant temperate tree species. *Ecohydrology*, 10(3):e1815 <http://onlinelibrary.wiley.com/wol1/doi/10.1002/eco.1815/abstract>
13. Morin* TH, Bohrer G, Stefanik* KC, Rey Sánchez* AC, Matheny* AM, Mitsch WJ. (2017) Combining eddy-covariance and chamber measurements to determine the methane budget from a small, heterogeneous urban floodplain wetland park. *Agricultural and Forest Meteorology* 237-238:160-170 <http://www.sciencedirect.com/science/article/pii/S0168192317300321>
14. Matheny* AM, Mirfenderesgi* G, Bohrer G. (2017) Trait-based representation of hydrological functional properties of plants in weather and ecosystem models. *Plant Diversity*, 39:1-12 <http://dx.doi.org/10.1016/j.pld.2016.10.001>
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116. Smith G, Angle* JC, Solden* LM, Borton MA, Morin* TH, Daly RA, Johnston MD, Stefanik* KC, Wolfe R, Bohrer G, Wrighton KC. Members of the Methylobacter are inferred to account for the majority of aerobic methane oxidation in oxic soils from a freshwater wetland. *mBio*.
117. Angel* J, Bohrer G, Wrighton K. The methane paradox: methanogenesis in oxic habitats challenges a paradigm. *FEMS Microbiology Reviews*.
118. Mirfenderesgi* G, Matheny* AM, Bohrer G. Hydrodynamic trait coordination and cost-benefit tradeoffs throughout the isohydric-anisohydric continuum in trees. *Ecohydrology*.
119. Supp SR, Graham LJ, La Sorte FA, Cormier TA, Bohrer G, Weinzierl R, Guay K, Jantz P, Powers DR, Wethington S, Goetz S, Graham CH. Alternate migration scenarios provide novel insights into environmental associations for migrating hummingbird populations in North America. *Royal Society Open Science*.
120. Chu H, Baldocchi D, Poindexter C, Abraha M, Desai A, Bohrer G, Arain A, Griffis T, Blanken P, O'Halloran T, Thomas RQ, Zhang Q, Burns S, Frank J, Christian D, Brown S, Black A, Gough C, Law B, Lee X, Chen J, Reed D, Massman W, Clark K, Hatfield J, Prueger J, Bracho R, Baker J, Martin T, Temporal dynamics of aerodynamic canopy height derived from eddy covariance momentum flux data across North American Flux Networks. *Geophysical Research Letters*.

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Invited Conference Presentation

1. Bohrer G. Introduction: Global Environmental Changes and Movement. 3/2017, *Gordon Research Conference – Movement Ecology of Animals*, Ventura, CA.
2. Novick KA, Ficklin DL, Stoy PC, Williams CA, Bohrer G, Oishi AC, Papuga SA, Blanken P, Noormets A, Scott RL, Wang L, Roman DT, Yi K, Sulman BN, Phillips R. Harnessing long-term flux records to better understand ecosystem response to drought. 12/2016. *American Geophysical Union Fall Meeting 2016*, San Francisco, CA.
3. Bohrer G, Matheny* AM, Mirfenderesgi* G, Morin* TH, Rey-Sánchez* AC, Gough CM, Vogel CS, Nadelhoffer KJ, Curtis PS. Forest disturbance spurs growth of modeling and technology. 12/2016. *American Geophysical Union Fall Meeting 2016*, San Francisco, CA.
4. Bohrer G, Davidson* SC, McClain* K, Weinzierl R, Kays R, Wikelski M. The Movebank environmental-data automated track annotation (Env-DATA) system: new possibilities in processing and interpretation of animal movement data. 10/2016. *The Wildlife Society Annual Conference*. Raleigh, NC.
5. Morin* TH, Bohrer G, Stefanik* KC, Rey-Sánchez* AC, Mitsch WJ. Combining eddy-covariance and chamber measurements to determine the methane budget from a small, heterogeneous urban wetland park. 8/2016. *5th International EcoSummit – Ecological Sustainability Engineering Change*. Montpellier, France.
6. Morin* TH, Bohrer G, Rey-Sánchez* AC, Stefanik* KC, Schäfer KVR, Mitsch WJ. Modeling greenhouse gas chemistry and transport in heterogeneous wetlands. 8/2016. *5th International EcoSummit – Ecological Sustainability Engineering Change*. Montpellier, France.
7. Bohrer G. The Movebank Environmental-Data Automated Track Annotation (Env-DATA) System – New Possibilities in Processing and Interpretation of Animal Movement Data. 5/2016. *Minerva School 2016: High-throughput systems for wildlife tracking at the regional scale*. Jerusalem/HaGoshrim, Israel.
8. Bohrer G. Not out of the blue - discovering the environmental context of movement. Plenary lecture. 9/2015. *AniMove Workshop and Symposium*. Konstanz, Germany.
9. Bohrer G. Hierarchical testing of individual-based models to determine effective environmental drivers of movement. 2/2015. *European Network for the Radar surveillance of Animal Movement (ENRAM)*, Kfar Blum, Israel.
10. Bohrer G, Morin* TH, Kenny* WT, Vogel CS. Observations and modeling the advection of carbon from an inland lake surrounded by a forest. 12/2014. *American Geophysical Union Meeting 2014*, San Francisco, CA.
11. Keenan T, Richardson A, Gray J, Friedl M, Toomey M, Bohrer G, Hollinger D, Munger JW, Schmid HP, Wing IS, Yang B. Net carbon uptake has increased through warming-induced changes in temperate forest phenology. 12/2014. *American Geophysical Union Meeting 2014*, San Francisco, CA.
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13. Bohrer G, Morin* TH, Vogel CS. CO₂ advection from a small inland lake surrounded by forest in Northern Michigan. 9/2014. *Advancing the Science of Gas Exchange between Fresh Waters and the Atmosphere*, Hyytiälä, Finland.
14. Bohrer G, Beck PSA, Bartlam-Brooks HLA, Ngene, SM. Hierarchical testing of individual-based models to determine effective environmental drivers of movement. 9/2014. *GIScience 2014 – Analysis of Movement Data Workshop*, Vienna, Austria.
15. Davidson* SC, Bohrer G, Weinzierl R, Kays R, Wikelski M. Scaling up the impact of local animal telemetry studies using Movebank. 8/2014. *American Fisheries Society Annual Meeting*, Quebec City, Quebec, Canada.

16. Frasson* RPM, Bohrer G. Exploring the influence of time and spatial resolution on the prediction of latent heat fluxes. 6/2014. *Ohio Supercomputer Center Statewide User Group Meeting*, Columbus, OH.
17. Bohrer G., Dodge* S, Bildstein K, Davidson* SC, Weinzierl R, Barber D, Kays R, Brandes D, Han J, Wikelski M. Discovering relationships between climate and animal migration with new tools for linking animal movement tracks, weather and land surface data. 5/2014. *NASA Biodiversity and Ecological Forecasting Team Meeting*, Silver Spring, MD.
18. Bohrer G., Dodge* S, Bildstein K, Davidson* SC, Weinzierl R, Barber D, Kays R, Brandes D, Han J, Wikelski M. Environmental drivers of variability in the movement ecology of four turkey vulture populations in two continents. 5/2014. *Symposium for Animal Movement and the Environment*, Raleigh, NC.
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20. Bohrer G. Env-DATA – New Tools for Studying Animal Movement and Their Environment. 11/2013. *Global Precipitation Measurements Applications Workshop - NASA*, College Park, MD.
21. Davidson* SC, Kays R, Dodge* S, Weinzierl R, Wikelski M, Bohrer G. Animal movement data and the Movebank online database. 10/2013. *The Wildlife Society Annual Conference*, Milwaukee, WI.
22. Bohrer G., Matheny* AM. The Finite-Elements Tree-Crown Hydrodynamics model (FETCH): Assessing the effects of hydrodynamic strategy in different tree species, 7/2013. *12th U.S. National Congress on Computational Mechanics, USNCCM12*, Raleigh, NC.
23. Gough CM, Bohrer G., Nadelhoffer KJ, Vogel CS, Curtis PS. Resilience of forest carbon storage to low-intensity disturbance: Insights from a large-scale experiment within a long-term AmeriFlux site in the upper Great Lakes. 5/2013. *US Department of Energy 2013 Terrestrial Ecosystem Science/Subsurface Biogeochemical Research Joint Investigator Meeting*, Washington, DC.
24. Bohrer G., Naor-Azrieli* L, Mesi* S, Schäfer KVR, Mouser P, Stefanik* K, Mitsch WJ, Morin* T. Eddy flux measurements of methane at the Oletangy River Wetland Research Park wetland - Determining the seasonal and diurnal dynamics of methane emissions, 10/2012. *4th International EcoSummit on Ecological Sustainability*, Columbus, OH.
25. Mouser P, Brooker* M, Bohrer G. Factors influencing microbial gas production rates in wetland sediments, 10/2012. *4th International EcoSummit on Ecological Sustainability*, Columbus, OH.
26. Schäfer KVR, Bohrer G. Effect of restoration on the carbon balance in the Meadowlands of New Jersey, 10/2012. *4th International EcoSummit on Ecological Sustainability*, Columbus, OH.
27. Schäfer KVR, Bohrer G., Reid M, Tripathee R, Jaffe P. Temporal and spatial dynamics of methane fluxes in a temperate urban wetland, 10/2012. *4th International EcoSummit on Ecological Sustainability*, Columbus, OH.
28. Bohrer G. Combining wind simulations and bird-density surveys for optimization of green wind power generation in urban limited space applications. 6/2012. *The Israel Academy of Sciences and Humanities – Abraham Kogan Seminar on Renewable Energies*, Jerusalem, Israel.
29. Schäfer KVR, Bohrer G., Tripathee R. Carbon sequestration by *Phragmites australis*, 4/2012. *Northeast Natural History Conference 2012*, Syracuse, NY.
30. Bohrer G. Optimization of small scale wind turbine in limited-space urban applications - maximizing wind and minimizing bird collision hazard. 2/2012, *OSU Center for Applied Plant Sciences, 1st CAPS Morning Gathering: Biofuels & Sustainable Energy Practices*, Columbus, OH.
31. Bohrer G., Maurer* K, Matheny* A, Meyer* K, Garrity* S. Assessing the effects of hydrodynamic stresses on photosynthesis with natural and modified canopy structures. 12/2010, *American Geophysical Union Fall Meeting*, San Francisco, CA.
32. Bohrer G. If only life were so simple – Handling some of dispersal's most neglected phenomena with simple(ified) mechanistic solutions. 9/2010. *FoResTTraC Workshop: Long Distance Gene Flow and Adaptation*, Bordeaux, France.
33. Brandes D, Bohrer G., Mandel* J, Katzner T, Miller T, Lanzone M, Maisonneuve C, Trembley J. Raptor migration by computer: using modeling and satellite tracking data to fill in the GPS. 4/2010. *Conference of the Hawk Migration Association of North America*, Duluth, MN.

34. Bohrer G. The shaved-grid-cell method for sub-grid-scale representation of vegetation volume in atmospheric simulations of forest canopies. 7/2009. *10th US National Congress on Computational Mechanics (USNCCM-X)*, Columbus, OH.
35. Bohrer G, Katul GG & Avissar R. Modification of mean boundary layer properties by micro-scale heterogeneity in large eddy simulations. 5/2008. *Inaugural International Conference of the Engineering Mechanics Institute (EM08)*, Minneapolis, MN.
36. Bohrer G, Brady R & Avissar R. Immersed virtual reality visualization of a forest-atmosphere flow model. 5/2007. *Duke Frontiers*, Duke University, Durham, NC.
37. Bohrer G, Ward D, Roth-Bejerano N, Kagan-Zur V. Host-VAM interactions affect seedling survival and growth. 10/1999. *Combating desertification with plants*. Beer Sheva, Israel.

Conference Presentations

38. Davidson* SC, Bohrer G, Kays R, Wikelski M. Big data, big challenges: new Movebank tools for avian telemetry, Poster, 8/2018. *International Ornithological Congress*, Vancouver, BC, Canada.
39. Bohrer G, Angle+ JC, Rey-Sanchez* AC, Morin* TH, Wrighton KC. Observations of methane production in the aerobic zone of a riverine wetland and consequences for the wetland's greenhouse gas budget. Oral Presentation, 6/2018. *Association of the Science of Limnology and Oceanography 2018 Summer Meeting*, Victoria, BC, Canada.
40. Bohrer G, Mirfenderesgi* G, Matheny* AM. Hydrodynamic model used to bridge observations at multiple scales and define tree hydraulic traits. Oral Presentation, 6/2018. *Computational Methods in Water Resources XXII*, Saint-Malo, France.
41. Rey-Sanchez* AC, Bohrer G. Production and emission of methane in disturbed and undisturbed areas in a peat bog in Ohio. Poster, 5/2018. *Society of Wetland Scientists Meeting*, Denver, CO.
42. Rey-Sanchez* AC, Morin* TC, Angle J, Mirfenderesgi* G, Stefanik* K, Wrighton KC, Bohrer G. Methane production/consumption within the soil column and associated atmospheric emissions among different land cover types of a Lake Erie estuarine wetland. Oral Presentation, 5/2018. *American Meteorological Society 33rd Conference on Agricultural and Forest Meteorology*. Boise, ID.
43. Bohrer G, Mirfenderesgi* G, Matheny* AM. Hydrodynamic model illuminates the role of tree hydraulic traits in transpirational response to soil water availability. Oral Presentation, 5/2018. *American Meteorological Society 33rd Conference on Agricultural and Forest Meteorology*. Boise, ID.
44. Solden+ LM, Graham EX, Nelson W, Hoyt D, Tfily M, Villa* J, Bohrer G, Stegen J, Wrighton KC. Microbial Ammonium Cycling is Critical to Nitrogen Transformations in Columbia River Sediments. Poster 5/2018. *2018 DoE Environmental System Science Principal Investigator Meeting*, Potomac, MD.
45. Bohrer G, Davidson* SC, LaPoint S, Boelman N, Wikelski M. New tools for environmental annotation of animal movement tracks at the ABoVE domain and beyond. Poster, 1/2018. *4th ABoVE Science Team Meeting*. Seattle, WA.
46. LaPoint S, Bohrer G, Davidson* SC, Mahoney P, Boelman N. Arctic warming and golden eagle migrations: potential for desynchrony between spring and eagle arrival dates. Poster, 1/2018. *4th ABoVE Science Team Meeting*. Seattle, WA.
47. Bohrer G, Mirfenderesgi* G, Matheny* AM. Hydrodynamic Model Illuminates the Role and Consequences of Tree Hydraulic Traits. Oral Presentation, 1/2018. *American Meteorological Society Annual Meeting, 32nd Conference on Hydrology*, Austin, TX.
48. Matheny* AM, Bohrer G. The role of biomass hydraulic capacitance in forest transpiration. Poster, 1/2018. *American Meteorological Society Annual Meeting, 32nd Conference on Hydrology*, Austin, TX.
49. LaPoint S, Bohrer G, Davidson* SC, Gurarie E, Mahoney P, Boelman N. Golden Eagle Migratory Behaviors in Response to Arctic Warming. Oral Presentation, 12/2017. *American Geophysical Union Fall Meeting*, New Orleans, LA.
50. Handler* M, Davidson* SC, Bohrer G. Building an archive of Arctic-Boreal animal movements and links to remote sensing data. Poster, 12/2017. *American Geophysical Union Fall Meeting*, New Orleans, LA.
51. Matheny* AM, Bohrer G. Implications of vegetation hydraulic capacitance as an indicator of water stress and drought recovery. Poster, 12/2017. *American Geophysical Union Fall Meeting*, New Orleans, LA.
52. Rey-Sanchez* AC, Morin* TH, Stefanik* KC, Angle+ J, Wrighton KC, Bohrer G. Patterns of in-soil methane production and atmospheric emission among different land covers of a Lake Erie estuarine wetland. Poster, 12/2017. *American Geophysical Union Fall Meeting*, New Orleans, LA.
53. Bohrer G, Rey-Sanchez* AC, Kenny* WT, Morin* TH. Eddy-Covariance Observations and Large-Eddy-Simulations of Near-Shore Fluxes from Water Bodies. Oral Presentation, 12/2017. *American Geophysical Union Fall Meeting*, New Orleans, LA.
54. Mirfenderesgi* G, Matheny* AM, Bohrer G. Hydrodynamic trait coordination and cost-benefit tradeoffs throughout the isohydric-anisohydric continuum in trees. Oral Presentation, 12/2017. *American Geophysical Union Fall Meeting*, New Orleans, LA.

55. Pappas C, Baltzer JL, Barr A, Black TA, Bohrer G, Detto M, Maillet J, Matheny* AM, Roy A, Sonnentag O, Stephens J. Boreal tree light- and water-use: asynchronous, diverging, yet complementary. Poster, 12/2017. *American Geophysical Union Fall Meeting*, New Orleans, LA.
56. LaPoint S, Bohrer G, Davidson* SC, Gurarie E, Mahony P, Boelman N. Golden eagle migrations through northwestern North America: plasticity is timing as an adaptation to dynamic movement? Oral Presentation, 11/2017. *Raptor Research Foundation*, Salt Lake City, UT.
57. Rey-Sanchez* AC, Slater J, Hao* Y, Grau-Andres R, Davies M, Bohrer G. (2017). Measuring Methane Emissions in a Peat Bog in Ohio with Fluctuating Water Level: Comparison of Disturbed vs. Undisturbed Areas. Poster, 11/2017. *46th Annual Water Management Association of Ohio Conference*. Worthington, OH.
58. Vines* C, Rey Sánchez* AC, Bohrer G. Using footprint analysis to determine flux measurements source over a heterogeneous surface. Poster, 10/2017. *Fifth Annual Water and Land Symposium at Kent State University*, Kent, OH.
59. Rey Sánchez* AC, Bohrer G. Using Artificial neural networks to model evaporation and CO₂ fluxes in a coastal reef. Poster, 9/2017. *Ohio Supercomputer Center Statewide Users Group Conference*, Columbus, OH.
60. Davidson* SD, Kays R, Bohrer G, Wikelski M. Movebank. Oral Presentation, 9/2017. *1st ICARUS User Workshop*, Konstanz, Germany.
61. Davidson* SD, Wikelski M, Kays R, Bohrer G. Accessing remote sensing and weather reanalysis data for movement ecology. Poster, 9/2017. *1st ICARUS User Workshop*, Konstanz, Germany.
62. Handler* M, Bohrer G, Wikelski M, Gagliardo A. Preliminary findings: Olfactory navigation of pigeons represented by aerosol dispersion modeling. Poster, 9/2017. *The 6th International Bio-Logging Science Symposium*, Konstanz, Germany.
63. Bohrer G, Davidson* SD, Weinzierl R, Sherub S, Flack A, Wikelski M. New method for measuring wind and air speed from high resolution GPS tags in thermalling birds. Oral Presentation, 9/2017. *The 6th International Bio-Logging Science Symposium*, Konstanz, Germany.
64. Smith GJ, Angle* J, Borton MA, Stefanik* KC, Johnston MD, Morin* TH, Daly RA, Wolfe R, Bohrer G, Wrighton KC. New Methylococcaceae Genus Possessing Unexpected Denitrification Potential Dominates Freshwater Wetland Soils. Oral Presentation 6/2017. *ASM Microbe*, New Orleans, LA.
65. Angle* J, Morin* TH, Solden LM, Smith GJ, Narrowe AB, Borton MA, Hoyt DW, Daly RA, Wolfe R, Stefanik* KC, Riley WR, Miller CS, Bohrer G, Wrighton KC. Methanogenesis in oxygenated soils is an unrecognized driver of wetland methane emissions. Oral presentation 6/2017. *ASM Microbe*, New Orleans, LA.
66. Green A, Bohrer G, Petrone RM. The effects of forest sheltering on peatland evapotranspiration in the Boreal Plains, Alberta, Canada. Oral presentation, 5/2016. *Canadian Geophysical Union and Canadian Society of Agricultural and Forest Meteorology Joint Annual Scientific Meeting*, Vancouver, BC, Canada. http://cgu-ugc2017meeting.ca/wp-content/uploads/2017/05/CGU-CSAFM_2017_H02.pdf
67. Slater JM, Davies GM, Rich VI, Bohrer G. Plant community composition across environmental and disturbance gradients in Ohio's peat bogs. Poster, 4/2017. *Ohio Academy of Science Annual Meeting*, Cincinnati, OH.
68. Slater JM, Davies GM, Rich VI, Bohrer G, Hao* Y, Ray Sanchez* AC. A comparison of plant communities in intact and damaged Ohio peat bogs. Poster, 3/2017. *Society for Ecological Restoration Mid-West Great Lakes Chapter Annual Meeting*. Grand Rapids, MI.
69. Morin* TH, Rey-Sánchez* AC, Bohrer G, Riley W, Angle* J, Mekonnen Z, Stefanik* K, Grant R, Wrighton K. Utilizing patch and site level greenhouse-gas concentration measurements in tandem with the prognostic model, *ecosys*. Poster, 3/2017. *Joint NACP and Ameriflux PI Meeting*, North Bethesda, MD.
70. Gough CM, Bohrer G, Curtis PS, Bond-Lamberty B, Stuart-Haentjens EJ, Hardiman BS, Fahey R, Atkins J, Sagara B, Haber L. The surprising role of disturbance in maintaining forest carbon sequestration: Implications for carbon science, policy and management. Oral Presentation, 3/2017. *Joint NACP and Ameriflux PI Meeting*, North Bethesda, MD.
71. Bohrer G, Matheny* AM, Mirfenderesgi* G, Curtis PS, Vogel CS, Rey-Sánchez AC. Plant hydraulic regulation of response to drought and plot-scale canopy disturbance. Poster, 3/2017. *Joint NACP and Ameriflux PI Meeting*, North Bethesda, MD.
72. Matheny* AM, Mirfenderesgi* G, Bohrer G. Tree water storage as a diagnostic metric of forest response to drought. Oral Presentation, 1/2017. *American Meteorological Society 97th Annual Meeting*, Seattle, WA.
73. LaPoint S, Gurarie E, Davidson* SC, Bohrer G, Boelman N. Golden eagle migratory behavior and arctic warming. Poster 1/2017. *3rd ABoVE Science Team Meeting*, Boulder, CO.
74. Davidson* SC, Bohrer G, LaPoint S, Gurarie E, Eitel J, Hebblewhite M, Jennewein J, Mahoney M, Meddens A, Oliver R, Palm E, Prugh L, Vierling L, Boelman N. Animals on the Move: Status of data acquisition & archiving. Poster 1/2017. *3rd ABoVE Science Team Meeting*, Boulder, CO.
75. Agee E, He L, Bisht G, Gough CM, Couvreur V, Matheny* AM, Bohrer G, Ivanov VY. Root water uptake and lateral interactions among root systems in a temperate forest. Poster 12/2016. *American Geophysical Union Fall Meeting 2016*, San Francisco, CA.
76. Mirfenderesgi* G, Bohrer G, Matheny* AM, Fatichi S, Frasson* RPdM, Schafer KVR. Tree-level hydrodynamic approach for modeling aboveground water storage and stomatal conductance highlights the effects of tree hydraulic strategy. Poster 12/2016. *American Geophysical Union Fall Meeting 2016*, San Francisco, CA.

77. Bohrer G, Mirfenderesgi* G, Matheny* AM, Fatichi S. Tree to plot scaling – how individual properties and species specific traits add up to describe a forest. Poster 12/2016. *American Geophysical Union Fall Meeting 2016*, San Francisco, CA.
78. Rey-Sánchez* CA, Morin* TH, Stefanik* KC, Wrighton KC, Bohrer G. Carbon fluxes in a heterogeneous estuarine wetland in Northern Ohio. Comparing eddy covariance and chamber measurements. Poster 12/2016. *American Geophysical Union Fall Meeting 2016*, San Francisco, CA.
79. Matheny* AM, Bohrer G, Mirfenderesgi* G, Morin* TH, Rey-Sánchez* AC, Vogel CS, Gough CM, Curtis PS. Plant hydrodynamics help govern forest water cycling response to intermediate severity disturbance. Oral Presentation 12/2016. *American Geophysical Union Fall Meeting 2016*, San Francisco, CA.
80. Gough CM, Curtis PS, Nave LE, Nadelhoffer KJ, Bohrer G, Bond-Lamberty BP, Scheuermann CM, Stuart-Haentjens E, Turner L, Sagara B. Canopy complexity's role in (re)shaping carbon cycling following disturbance and with age: Do new observations support old theories? Poster 12/2016. *American Geophysical Union Fall Meeting 2016*, San Francisco, CA.
81. Fiorella R, Poulsen CJ, Matheny* AM, Rey-Sánchez* AC, Fotis* AT, Morin* TH, Vogel CS, Gough CM, Aron P, Bohrer G. Forest Canopy Water Cycling Responses to an Intermediate Disturbance Revealed Through Stable Water Vapor Isotopes. Poster, 12/2016. *American Geophysical Union Fall Meeting 2016*, San Francisco, CA.
82. Morin* TH, Rey-Sánchez* AC, Bohrer G, Riley RJ, Angle* J, Mekonnen ZA, Stefanik* KC, Wrighton KC. Utilizing patch and site level greenhouse-gas concentration measurements in tandem with the prognostic model, ecosys. Poster 12/2016. *American Geophysical Union Fall Meeting 2016*, San Francisco, CA.
83. Mirfenderesgi* G, Bohrer G, Matheny* AM, Fatichi S, Frasson* RPdM, Schafer KVR. Tree-level hydrodynamic approach for modeling aboveground water storage and stomatal conductance highlights the effects of tree hydraulic strategy. Poster 12/2016. *45th annual WMAO conference*, Columbus, OH.
84. Rey-Sánchez* AC, Morin* TH, Bohrer G. Semi-continuous monitoring of methane in wetlands' soils through the use of pore water dialysis 'peepers'. Oral Presentation, 10/2016. *Innovative Environmental Monitoring Symposium*, Athens, Ohio.
85. Rey-Sánchez* AC, Morin* TH, Bohrer G. Carbon fluxes from an estuarine wetland in Northern Ohio. Oral Presentation, 9/2016. *Ohio River Basin Consortium for Research and Education 32nd annual symposium*. Youngstown, Ohio (Won best student presentation award).
86. Bohrer G, Davidson* SC, McClain* KM, Friedemann G, Weinzierl R, Sherub S, Harel R, Efrat R, Nathan R, Wikelski M. Contextual Movement Data of Bird Flight – Direct Observations and Annotation from Remote Sensing. Oral presentation, 9/2016. *GIScience 2016, Workshop on Analysis of Movement Data (AMD'16)*, Montreal, Canada.
87. Matheny* AM, Bohrer G, Mirfenderesgi* G. Shifting the plant functional type paradigm to reflect hydraulic properties may improve model simulations of drought and disturbance. Oral presentation, 6/2016. *32nd Conference on Agricultural and Forest Meteorology*, Salt Lake City, UT (Best student presentation award, 2nd place).
88. Desai AR, Golub M, Vesala T, Bohrer G, Blanken PD, Franz D, Deshmukh C, Guérin F, Heiskanen J, Jammet M, Jonsson A, Karlsson J, Koebsch F, Liu H, Lohila A, Lundin E, Mammarella I, Rutgersson A, Sachs T, Serça D, Spence C, Strachan IB, Weyhenmeyer G, Xiao Q, Glatzel S. Little lakes and large lakes: The first global inland water eddy covariance flux synthesis. Oral presentation, 6/2016. *32nd Conference on Agricultural and Forest Meteorology*, Salt Lake City, UT.
89. Rey Sánchez* AC, Morin* TH, Stefanik* KC, Wrighton K, Bohrer G. The carbon balance in a heterogeneous estuarine wetland in Northern Ohio. Oral Presentation 6/2016. *16th Annual Meeting of the American Ecological Engineering Society*, Knoxville, TN.
90. Bohrer G, Matheny* AM, Mirfenderesgi* G, Morin* TH, Fatichi S. Scaling tree-level hydrodynamics to plot-level hydrology using novel model and measurements. Oral presentation, 4/2016. *European Geosciences Union General Assembly*, Vienna, Austria.
91. Matheny* AM, Bohrer G, Fiorella R, Mirfenderesgi* G. Plant hydraulic traits govern forest water use and growth. Poster, 4/2016. *European Geosciences Union General Assembly*, Vienna, Austria.
92. Villa* JA, Handler* M, Blanca Bernal, Bohrer G. Carbon sequestration in wetlands: Methods to determine accumulation rates. Oral presentation, 3/2016. *Segundo Congreso Interamericano de Cambio Climático - Second inter-American Congress on Climate Change*, Mexico City, Mexico.
93. Mirfenderesgi* G, Bohrer G, Fatichi S, Matheny* AM, Frasson* RPdM, Schäfer KVR. Application of a tree-level hydrodynamic model to simulate plot-level transpiration in the upland oak/pine forest in New Jersey. Oral presentation, 1/2016. *96th American Meteorological Society Annual Meeting*, New Orleans, LA.
94. Bohrer G, Matheny* AM, Mirfenderesgi* G. Including tree water potential in plot-level transpiration modeling using the hydrodynamic approach. Oral presentation, 1/2016. *96th American Meteorological Society Annual Meeting*, New Orleans, LA.
95. Mirfenderesgi* G, Bohrer G, Matheny* AM, Fatichi S, Frasson* RPdM, Schäfer KVR. Application of a tree-level hydrodynamic model to simulate plot-level transpiration in the upland oak/pine forest in New Jersey. Poster, 12/2015. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.

96. Morin* TH, Stefanik* KC, Bohrer G, Rey Sánchez* AC, Mitsch WJ. Combining eddy-covariance and chamber measurements to determine the methane budget from a small, heterogeneous urban wetland park. Poster, 12/2015. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.
97. Fiorella R, Poulsen C, Matheny* AM, Bohrer G. Constraints on water cycling in a deep mountain valley from stable water isotope and sap flux measurements. Poster, 12/2015. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.
98. Van Emmerik THM, Mirfenderesgi* G, Bohrer G, Steele-Dunne S, Van De Giesen N. Crop modeling: Studying the effect of water stress on the driving forces governing plant water potential. Poster, 12/2015. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.
99. Schäfer KVR, Jaffe P, Morin* TH, Bohrer G. Greenhouse gas balance in a restored and natural wetland. Poster, 12/2015. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.
100. Bohrer G, Kenny* W, Morin* TH. Large-eddy simulations of surface-induced turbulence and its implications to the interpretation of eddy-covariance measurements in heterogeneous landscapes. Poster, 12/2015. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.
101. Matheny* AM, Bohrer G, Fiorella R, Mirfenderesgi* G. Proposed hydrodynamic model improves resolution of species-specific responses to drought and disturbance. Poster, 12/2015. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.
102. Agee E, He* L, Couvreur L, Bisht G, Gough CM, Ivanov VY, Shahbaz P, Fatichi S, Matheny* AM, Bohrer G. Compensatory root water uptake of overlapping root systems. Poster, 12/2015. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.
103. Golub M, Desai AR, Bohrer G, Blanken P, Deshmukh CS, Franz D, Guérin F, Heiskanen JJ, Jammert M, Jonsson A, Karlsson J, Koebsch F, Liu H, Lohila A, Lundin E, Mammarella E, Rutgersson A, Sachs T, Serça D, Spence C, Strachan IB, Vesala T, Weyhenmeyer GA, Xiao W. Environmental controls of energy and trace gas exchanges at the water-air interface: Global synthesis of eddy fluxes over inland waters. Oral Presentation, 12/2015. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.
104. Zscheischler J, Blanken P, Bohrer G, Clark K, Desai A, Fatichi S, Hollinger D, Keenan T, Novick KA, Wolf S, Seneviratne SI. Short-term weather variability is an important control of interannual variability in carbon and water fluxes in temperate forests. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.
105. Novick K, Williams C, Phillips R, Oishi A, Sulman B, Bohrer G, Ficklin D. Vapor pressure deficit is as important as soil moisture in determining limitations to evapotranspiration during drought. *American Geophysical Union Fall Meeting 2015*, San Francisco, CA.
106. Zscheischler J, Blanken P, Bohrer G, Clark K, Desai A, Fatichi S, Hollinger D, Keenan T, Novick KA, Wolf S, Seneviratne SI. Short-term weather variability is an important control of interannual variability in carbon and water fluxes in temperate forests. Poster, 11/2015. *13th Swiss Geoscience Meeting*, Basel, Switzerland.
107. Morin* TH, Stefanik* KC, Bohrer G, Rey-Sánchez* AC, Mitsch WJ. Combining eddy-covariance and chamber measurements to determine the methane budget from a small, heterogeneous urban wetland park. Poster, 10/2015. *Potsdam GHG Flux Workshop - from natural to urban systems*, Potsdam, Germany.
108. Bohrer G. Remote Sensing in support of endangered species management and animal movement research – The Env-DATA tool pack. Oral presentation, 10/2015. *66th International Astronautical Congress*, Jerusalem, Israel.
109. Obringer* R, Bohrer G, Davidson* SC, Weinzierl R, Ward M, Moore F, Bolus R, Diehl R, Deppe J. Modelling correlations between thrush migrations and Weather variables. Poster. 7/2015. *U21 Undergraduate Research Conference: Peoples and Places*, Auckland, New Zealand
110. Stefanik* K, Bohrer G, Mitsch WJ. Seasonal and Diurnal Relationships between Methane and Carbon Dioxide Flux from *Typha spp.* Dominated Wetland. Oral presentation, 6/2015. *Society of Wetland Scientists Annual Meeting 2015*, Providence, RI.
111. Kenny* WT, Chatziefstratiou* E, Bohrer G. Large eddy simulations as a parameterization tool for canopy-structure X VOC-flux interactions. Poster, 4/2015. *European Geosciences Union Meeting*, Vienna, Austria.
112. Gough CM, Bohrer G, Nadelhoffer K, Vogel CS, Curtis PS. Declining aspen and increasing NEP at the University of Michigan Biological Station Core Site: trends and underlying mechanisms. Poster, 1/2015. *AmeriFlux Principal Investigators Meeting*, Washington, DC.
113. Gough CM, Bohrer G, Nadelhoffer K, Vogel CS, Curtis PS. Carbon cycle resilience to disturbance in Great Lakes forests: measurements, mechanisms, and models. Poster, 1/2015. *AmeriFlux Principal Investigators Meeting*, Washington, DC.
114. Frasson* RPD, Bohrer G, Medvigy D, Matheny* AM, Gough CM, Vogel CS, Curtis PS. Modeling forest carbon cycle response to tree mortality: effects of plant functional type and disturbance intensity. Poster, 1/2015. *5th NACP PI Meeting and AmeriFlux Principal Investigators Meeting*, Washington, DC.
115. Morin* TH, Stefanik* K, Bohrer G. Footprint-driven gap filling strategies for fluxes from mixed forest-aquatic systems. Poster, 1/2015. *5th NACP PI Meeting and AmeriFlux Principal Investigators Meeting*, Washington, DC.
116. Matheny* AM, Morin* TH, Bohrer G, Garrity* S, Vogel CS, Ivanov V, Curtis PS. Improved latent heat flux modeling through plant hydrodynamics accounts for the influence of species-specific storage and diurnal

- hysteresis. Poster, 1/2015. *5th NACP PI Meeting and AmeriFlux Principal Investigators Meeting*, Washington DC.
117. Schäfer KVR, Jaffe P, Bohrer G. Greenhouse gas fluxes in a natural and restored wetland before and after hurricane Sandy. Poster, 12/2014. *American Geophysical Union Meeting 2014*, San Francisco, CA.
 118. Gough CM, Cheng S, Hardiman⁺ B, Curtis PS, Bohrer G, Vogel CS, Nadelhoffer K, Morin^{*} TH. Ecological and environmental controls over fifteen-year forest net ecosystem production at the University of Michigan Biological Station. Poster, 12/2014. *American Geophysical Union Meeting 2014*, San Francisco, CA.
 119. Frasson^{*} RPdM, Bohrer G, Medvigy D, Vogel CS, Gough CM, Curtis PS. Representing sub-plot canopy heterogeneity improves model prediction of net ecosystem exchange in a mixed-deciduous forest. Oral presentation, 12/2014. *American Geophysical Union Meeting 2014*, San Francisco, CA.
 120. Bohrer G, Maurer^{*} KD, Chatziefstratiou^{*} E, Medvigy D. Large-eddy simulations with a dynamic explicit vegetation model. Oral presentation, 12/2014. *American Geophysical Union Meeting 2014*, San Francisco, CA.
 121. Matheny^{*} AM, Bohrer G, Mirfenderesgi^{*} G, Schäfer KVR. Proposed hydrodynamic model increases the ability of land-surface models to capture intra-daily dynamics of transpiration and canopy structure effects. Oral presentation, 12/2014. *American Geophysical Union Meeting 2014*, San Francisco, CA. (best student presentation award).
 122. Chen M, Keenan T, Hufkens K, Munger JW, Bohrer G, Brzostek E, Richardson A. Inter-annual variability of carbon fluxes in temperate forest ecosystems: effects of biotic and abiotic factors. Poster, 12/2014. *American Geophysical Union Meeting 2014*, San Francisco, CA.
 123. Mirfenderesgi^{*} G, Bohrer G, Matheny^{*} AM. Tree-level hydrodynamic approach for improved stomatal conductance parameterization. Poster, 12/2014. *American Geophysical Union Meeting 2014*, San Francisco, CA.
 124. Sivandran G, Bohrer G, Rizzo B, Soldaini D. The sensitivity of modeled evapotranspiration to rooting parameters during interstorm periods. Poster, 12/2014. *American Geophysical Union Meeting 2014*, San Francisco, CA.
 125. Morin^{*} TH, Bohrer G, Naor-Azrieli^{*} L. Environmental causes of methane fluxes from an urban wetland; Oral Presentation, 11/2014. *43rd Annual Water Management Association of Ohio Meeting*, Columbus, OH.
 126. Kenny^{*} WT, Morin^{*} TH, Bohrer G. Development of the High resolution VOC Atmospheric Chemistry in Canopies (Hi-VACC) model and application to a lake flux scenario. Poster, 9/2014. *Advancing the Science of Gas Exchange between Fresh Waters and the Atmosphere*, Hyttälä, Finland.
 127. Bolus RT, Diehl RH, Deppe JL, Ward MP, Moore FR, Bohrer G, Schofield LN, Zenzal TJ. Availability and use of supportive winds by migrating land birds that cross the Gulf of Mexico. Oral Presentation, 9/2014. *Annual meeting of the American Ornithologists' Union*, Estes Park, CO.
 128. Supp SR, Cormier TA, La Sorte FA, Lim M, Bohrer G, Powers D, Wethington S, Goetz S, Graham CH. Hummingbird migration - Integrating continental-scale citizen-science, environmental, and physiological data to identify the drivers of species migration. Poster, 7/2014. *Gordon Research Conference- Unifying Ecology across Scales*, Biddeford, ME.
 129. Morin^{*} TH, Bohrer G, Naor-Azreli^{*} L, Frasson^{*} RP, Schäfer KVR Mitsch WJ. Modeling an urban wetland's methane fluxes using the eddy covariance method. Oral Presentation, 6/2014. *14th Annual Meeting of the American Ecological Engineering Society*, Charleston, SC.
 130. Matheny^{*} AM, Mirfenderesgi^{*} G, Bohrer G. Tree-level hydrodynamic approach for improved stomatal conductance parameterization. Oral presentation, 6/2014. *Computational Methods in Water Resources*, Stuttgart, Germany.
 131. Chatziefstratiou^{*} E, Kenny^{*} WT, Heilman WE, Bohrer G. Resolving the effects of canopy structure on fire-emitted smoke dispersion using large eddy simulations. Oral presentation, 5/2014. *Large Wildland Fires: Social, Political and Ecological Effects Conference*, Missoula, MT.
 132. Bohrer G, Maurer^{*} KD, Medvigy D, Kenny^{*} WT, Ivanov VY. Large-eddy simulations with a dynamic vegetation model of tree-scale soil-vegetation flux interactions. Oral presentation, 5/2014. *31st Conference on Agricultural and Forest Meteorology*. Portland, OR.
 133. Chatziefstratiou^{*} EK, Bohrer G. Resolving the effects of canopy structure on fire-emitted heat transport using large eddy simulations. Oral presentation, 5/2014. *31st Conference on Agricultural and Forest Meteorology*. Portland, OR.
 134. Kenny^{*} WT, Bohrer G, Chatziefstratiou^{*} EK. Development and application of the High resolution VOC Atmospheric Chemistry in Canopies (Hi-VACC) model. Oral presentation, 5/2014. *2nd Conference on Atmospheric Biogeosciences*, Portland, OR.
 135. Matheny^{*} AM, Bohrer G. Proposed hydrodynamic model increases the ability of land-surface models to capture hysteretic nature of transpiration. Poster, 5/2014. *2nd Conference on Atmospheric Biogeosciences*, Portland, OR.
 136. Renninger H, Schäfer K, Bohrer G, Clark K, Skowronski N. Effects of disturbance on carbon sequestration in the New Jersey Pine Barrens. Poster, 5/2014. *The 2014 Joint TES/SBR Principal Investigators Meeting*, Potomac, MD.

137. Gough C, Curtis PS, Bohrer G, Nadelhoffer K. Carbon and water cycling following low-severity disturbance in an Upper Great Lakes forest: Empirical and modeling results from an AmeriFlux core site. Poster, 5/2014. *The 2014 Joint TES/SBR Principal Investigators Meeting*, Potomac, MD.
138. Frasson* RPM, Bohrer G, Curtis PS. Predicting the impact of disturbances on the carbon cycle of a mixed deciduous forest in the upper Midwest. Poster, 5/2014. *Ameriflux Annual PI Meeting*, Potomac, MD.
139. Morin* TH, Bohrer G, Frasson* RPM. Optimizing a gapfill model for an urban wetland's methane fluxes. Poster, 5/2014. *Ameriflux Annual PI Meeting*, Potomac, MD.
140. Bolus RT, Bohrer G, Deppe JL, Diehl RH, Moore FR, Schofield L, Ward MP, Zenzal TJ. Do migrating birds respond to altitudinal variation in winds during long, over-water flights? Oral presentation, 5/2014. *Symposium for Animal Movement and the Environment*, Raleigh, NC.
141. Cormier T, Supp SR, La Sorte FA, Bohrer G, Weinzierl R, Wethington S, Powers D, Graham CH, Goetz S. A framework for modeling population-level hummingbird migration using citizen science observations and Env-DATA annotation. Oral presentation, 5/2014. *Symposium for Animal Movement and the Environment*, Raleigh, NC.
142. Dodge* S, Bohrer G, Davidson* SC, Weinzierl R. Environmental data track annotation with Env-DATA. Tutorial, 5/2014. *Symposium for Animal Movement and the Environment*, Raleigh, NC.
143. Obringer* R, Bohrer G, Davidson* SC, Weinzierl R, Ward M, Moore F, Bolus R, Diehl R, Deppe J. Correlations between thrush migrations and weather variables. Poster, 5/2014. *Symposium for Animal Movement and the Environment*, Raleigh, NC.
144. Supp S, Cormier T, La Sorte FA, Bohrer G, Goetz S, Powers D, Wethington S, Graham CH. Using continental-scale citizen-science data and remote sensing products to identify the drivers of hummingbird migration routes and timing. Oral presentation, 5/2014. *Symposium for Animal Movement and the Environment*, Raleigh, NC.
145. Keenan T, Bohrer G, Friedl M, Gray J, Hollinger D, Munger JW, Schmid H P, Toomey M, Richardson AD, Wing IS, Yang B. Increased carbon uptake in the eastern US due to warming induced changes in phenology. Oral presentation, 4/2014. *European Geosciences Union General Assembly 2014*, Vienna, Austria.
146. Keenan TF, Hollinger DY, Bohrer G, Dragoni D, Munger WJ, Schmid HP, Richardson AD. Long-term increase in forest water-use efficiency observed across ecosystem carbon flux networks. Oral presentation, 4/2014. *European Geosciences Union General Assembly 2014*, Vienna, Austria.
147. Bohrer G, Dodge* S, Weinzierl R, Davidson* SC, Kays R, Douglas DC, Brandes D, Bildstein K, Wikelski M. The Environmental-Data Automated Track Annotation (Env-DATA) system: linking animal tracks with environmental data. Poster, 12/2013. *American Geophysical Union Meeting 2013*, San Francisco, CA.
148. Curtis PS, Gough CM, Bohrer G, Nadelhoffer KJ, Ivanov VY. Tree death leading to ecosystem renewal? Forecasting carbon storage as eastern forests age. Poster, 12/2013. *American Geophysical Union Meeting 2013*, San Francisco, CA.
149. Cheng SJ, Bohrer G, Steiner AL, Nadelhoffer KJ, Fotis* A. The Impact of Diffuse Light on Terrestrial Carbon Uptake. Poster, 12/2013. *American Geophysical Union Meeting 2013*, San Francisco, CA.
150. Matheny* AM, Bohrer G. Multi-site model-observations comparison shows the diurnal effects of hydrodynamic stress on evapotranspiration. Poster, 12/2013. *American Geophysical Union Meeting 2013*, San Francisco, CA.
151. Frasson* RPM, Bohrer G, Medvigy D, Ivanov VY, Vogel C, Curtis PS. Modeling the impact of disturbances on the carbon cycle of a mixed-deciduous forest in the upper Midwest. Poster, 12/2013. *American Geophysical Union Meeting 2013*, San Francisco, CA.
152. Naor-Azrieli* L, Morin* TH, Bohrer G, Schäfer KVR, Brooker* M, Mitsch WJ. Effects of environmental conditions on an urban wetland's methane fluxes. Poster, 12/2013. *American Geophysical Union Meeting 2013*, San Francisco, CA.
153. Keenan TF, Bohrer G, Dragoni D, Friedl MA, Gray JM, Hollinger DY, Munger WJ, Schmid HP, Toomey MP, Richardson AD. Oral presentation, Increased carbon uptake in the eastern US due to warming induced changes in phenology. 12/2013. *American Geophysical Union Meeting 2013*, San Francisco, CA.
154. Kenny* WT, Bohrer G, Chatziefstratiou* E. Development and application of the High resolution VOC Atmospheric Chemistry in Canopies (Hi-VACC) model. Oral presentation, 12/2013. *American Geophysical Union Meeting 2013*, San Francisco, CA.
155. Morin* TH, Bohrer G, Vogel C. Environmental drivers influence carbon emissions and storage of a freshwater lake. Poster, 12/2013. *American Geophysical Union Meeting 2013*, San Francisco, CA.
156. Morin* TH, Bohrer G, Naor-Azrieli* L, Mesi* S, Schäfer KVR, Stefanik* K, Mitsch WJ. Effects of environmental conditions on urban wetland's methane fluxes. Poster, 11/2013. *42nd Annual Water Management Association of Ohio Conference, Now Trending: Innovations in Water Resource Management*, Columbus, OH.
157. Kenny* WT, Chatziefstratiou* E, Heilman WE, Bohrer G. Using the High resolution VOC Atmospheric Chemistry in Canopies (Hi-VACC) model to simulate smoke dispersion from forest fires. Oral Presentation 10/2013. *American Meteorological Society 10th Symposium of Fire and Forest Meteorology*, Bowling Green, KY.

158. Bohrer G, Dodge* S, Davidson* SC, Weinzierl R, Kays R, Wikelski M. The Environmental-Data Automated Track Annotation (Env-DATA) system – new possibilities in processing and interpretation of movement data. Oral Presentation, 8/2013. *American Ornithologists' Union/Cooper Ornithological Society Joint Meeting*, Chicago, IL.
159. Davidson* SC, Dodge* S, Weinzierl R, Kays R, Wikelski M, Bohrer G. New services for archiving, processing, and analyzing avian movement data on Movebank. Oral Presentation, 8/2013. *American Ornithologists' Union/Cooper Ornithological Society Joint Meeting*, Chicago, IL.
160. Davidson* SC, Bohrer G, Dodge* S, Weinzierl R, Kays R, Wikelski M. Incorporating remote sensing and environmental data in animal movement research using the Env-DATA system and Movebank. Oral presentation, 8/2013. *Ecological Society of America 98th Annual Meeting*, Minneapolis, MN.
161. Morin* TH, Bohrer G, Naor-Azrieli* L, Mesi* S, Schäfer KVR, Stefanik* K, Mitsch WJ. Effects of environmental conditions on an urban wetland's methane fluxes, Poster 6/2013. *13th Annual American Ecological Engineering Society Meeting*, East Lansing, MI
162. Rodríguez-Ronderos ME, Schnitzer SA, Bohrer G, Powers J. Contribution of lianas to LAI and canopy structure in a seasonal forest in Panamá. Poster 6/2013. *The Association for Tropical and Biology and Conservation (ATBC) 50th Anniversary Meeting*, San José, Costa Rica.
163. Frasson* RPM, Bohrer G, Maurer* KD, Kim* R-S, Hardiman* BS, Gough CM, Ivanov VY, He* L, Vogel CS, Nadelhoffer K, Curtis PS. Resolving scale-dependencies in the effects of canopy structure on carbon, water, and energy fluxes in a mixed deciduous forest. Poster 5/2013. *US Department of Energy 2013 Terrestrial Ecosystem Science/Subsurface Biogeochemical Research Joint Investigator Meeting*, Washington, DC.
164. Bohrer G, Dodge* S, Davidson SC, Kays R, Douglas D, Brandes D, Han J, Wikelski M. The Environmental-Data Automated Track Annotation (Env-DATA) system: linking animal tracks with environmental data. Poster 5/2013. *10th Biennial Deer and Elk Workshop*, Missoula, MT.
165. Bohrer G, Discovering relationships between climate and animal migration with new tools for linking animal movement tracks, weather and land surface Data. Oral presentation 4/2013. *NASA Biodiversity and Ecological Forecasting Team Meeting*, Washington, DC.
166. Dodge* S, Bohrer G, Weinzierl R, Davidson* SC, Wikelski M, Kays R. Exploring Animal Movement Patterns in Response to Environmental Change. Oral presentation 4/2013. *Association of American Geographers Annual Meeting*, Los Angeles, CA.
167. Bova* A, Bohrer G, Dickinson MB, Mell W. Numerical experiments to provide functional relationships that describe differential heating around a tree bole. Poster 4/2013. *4th Fire Behavior and Fuels Conference*, Raleigh, NC.
168. Maurer* KD, Bohrer G, Hardiman* BS, Vogel CS, Curtis PS. Spatial and temporal heterogeneity of surface roughness parameters and flux dynamics due to canopy structure change. Poster. 2/2013. *4th NACP All-Investigator Meeting*, Albuquerque, NM.
169. Frasson* R, Bohrer G, Frasson* CD, Maurer* KD, Kenny* WT, Vogel CS, Medvigy D, Curtis PS. Effects of intermediate disturbances on the carbon cycle in the upper Midwest. Poster. 2/2013. *4th NACP All-Investigator Meeting*, Albuquerque, NM.
170. Matheny* AM, Bohrer G, Ivanov V, Stoy P. Typical patterns of latent heat flux error – indicative of missing hydrodynamic processes in land surface models. Poster. 2/2013. *4th NACP All-Investigator Meeting*, Albuquerque, NM.
171. Keenan TF, Bohrer G, Dragoni D, Hollinger D, Munger JW, Schmid HP, Richardson AD. Increasing carbon sequestration in the northeastern US over the past two decades. Poster. 2/2013. *4th NACP All-Investigator Meeting*, Albuquerque, NM.
172. Bohrer G, Gough CM, Ivanov VY, Maurer* KD, Frasson* R, Matheny* AM, He* L, Hardiman* BS, Nadelhoffer K, Vogel CS, Nave LE, Curtis PS. Forecasting carbon stocks in Eastern forests: joining experimental and tree-level modeling approaches to understand structure-function dynamics with ecological succession and disturbance. Poster. 2/2013. *4th NACP All-Investigator Meeting*, Albuquerque, NM.
173. Curtis PS, Gough CM, Hardiman* BS, Nave LE, Bohrer G, Maurer* KD, Vogel CS, Nadelhoffer K. Resilience of Great Lakes forest carbon stocks to disturbance and succession. Poster. 2/2013. *4th NACP All-Investigator Meeting*, Albuquerque, NM.
174. Beck PS, Bohrer G, Wethington S, Bartlam-Brooks HL, Powers DR, Goetz SJ, Graham CH. Satellite-driven predictions of animal migrations in response to short and long-term environmental change. Oral Presentation, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.
175. Bohrer G, Morin* T, Naor-Azrieli* L, Mouser PJ, Mitsch WJ, Schäfer KVR. Determining the meteorological forcing that affect seasonal and diurnal dynamics of respiration and GPP in a constructed urban wetland in Ohio. Oral Presentation, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.
176. Brooker* M, Bohrer G, Mouser PJ. Factors Influencing Microbial Carbon Emission Potential from Wetland Sediments and its Relation to Surface- and Plot-Scale Measurements. Poster, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.

177. Chatziefstratiou* T, Bohrer G, Velissariou* V. Large eddy simulations of volume restriction effects on canopy-induced increased-uplift regions. Poster, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.
178. Frasson* R, Bohrer G, Frasson* CD, Kenny* WT, Maurer* KD, Ivanov VY, Vogel CS, Walko RL, Medvigy D, Curtis PS. Understanding the effects of intermediate disturbances on evapotranspiration in the upper Midwest. Poster, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.
179. Gough CM, Hardiman* BS, Nave LE, Bohrer G, Maurer* KD, Vogel CS, Nadelhoffer KJ, Curtis PS. Defying the decline: Carbon storage resistance to moderate disturbance in a temperate forest. Poster, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.
180. Keenan TF, Bohrer G, Dragoni D, Hollinger DY, Munger WJ, Richardson AD. Increasing carbon sequestration in the northeastern US over the past two decades. Oral Presentation, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.
181. Kenny* WT, Maurer* KD, Bohrer G. Roughness length as a measure of the effects of a vegetative windbreak. Poster, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.
182. Matheny* AM, Bohrer G, Thomsen* JE, Frasson* R, Frasson* CD, Ivanov VY. A framework for incorporating the effects of hydrodynamic stresses on forest photosynthesis and evaporation. Poster, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.
183. Maurer* KD, Bohrer G, He* L, Ivanov VY, Vogel CS, Curtis PS. Measuring and modeling disturbance-induced changes to flux dynamics in increasingly heterogeneous canopy environments. Poster, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.
184. Schäfer KVR, Tripathee R, Bohrer G. Effect of restoration on carbon fluxes in urban temperate wetlands. Poster, 12/2012. *American Geophysical Union Meeting 2012*, San Francisco, CA.
185. Morin* T, Bohrer G, Naor-Azrieli* L, Mesi* S, Schäfer KVR, Stefanik* K, Mitsch WJ. Effects of environmental conditions on an urban wetland's methane fluxes. Poster, 11/2012. *41st Annual Water Management Association of Ohio Conference*, Columbus, OH.
186. Beck PSA, Bohrer G, Bartlam-Brooks H. Studying animal migrations using remotely sensed environmental time-series. Poster, 10/2012. *Research Coordination Network – FORECAST Conference 2012*, Woods Hole, MA
187. Brooker* M, Mouser PJ, Bohrer G. Quantifying in situ rates of methanogenesis and denitrification in wetland sediments. Poster, 9/2012. *4th International EcoSummit on Ecological Sustainability*, Columbus, OH.
188. Kenny* WT, Bohrer G, Meyer* K, Garrity* SR. Determining forest structure at an individual-tree scale using remote-sensing-based methods. Poster, 9/2012. *4th International EcoSummit on Ecological Sustainability*, Columbus, OH.
189. Matheny* A, Bohrer G. Mechanistic linking of stomata conductance to soil moisture using a tree level hydrodynamic model. Poster, 9/2012. *4th International EcoSummit on Ecological Sustainability*, Columbus, OH.
190. Scannell* GS, Bohrer G, Jones* RL. Green solutions for wet weather management. Poster, 9/2012. *4th International EcoSummit on Ecological Sustainability*, Columbus, OH.
191. Davidson SC, Kays R, Wikelski M, Weinzierl R, Dodge* S, Bohrer G. Exploring how animals respond to environmental change: Linking animal movement data to global environmental datasets with Movebank. Poster 9/2012. *IMPACT - International Conference on Managing Protected Areas under Climate Change*, Dresden, Germany.
192. Kenny* WT, Bohrer G, Dodge* S, Garrity* SR, Matheny* AM, Low* P, Maurer* KD. Tree-scale forest structure for modeling of hydrodynamic stresses. Poster 9/2012. *ForestSAT 2012*, Cornwallis, OR.
193. Damschen EI, Baker DV, Bohrer G, Turner JR, Brudvig LA, Haddad NM, Levey DJ, Nathan R, Orrock JL, Tewksbury JJ. Predicting and understanding wind-driven seed dispersal in fragmented landscapes with corridors. Oral Presentation, 8/2012. *The 97th Annual Meeting of the Ecological Society of America*. Portland, OR.
194. Maurer* KD, Bohrer G, He L, Ivanov VY. Modeling the effects of increasingly heterogeneous canopy environments on flux dynamics using high-resolution, forest-resolving large-eddy simulations. Oral presentation, 7/2012. *American Meteorological Society 20th Symposium on Boundary Layers and Turbulence*, Boston, MA.
195. Brooker* MR, Bohrer G, Mitsch WJ, Mouser PJ. Factors influencing methane emission potential from wetland sediments. Poster, 7/2012. *Ohio River Basin Consortium for Research and Education 2012*, Athens, OH.
196. Curtis PS, Gough CM, Hardiman* BS, Bohrer G, Nadelhoffer KJ. Managing Great Lakes forests for climate change mitigation. Oral presentation, 7/2012. *BIOGEMON 2012: The 7th International Symposium on Ecosystem Behavior*, Northport, ME.
197. He* L, Ivanov VY, Bohrer G, Maurer* KD, Vogel CS. Modeling the Effects of fine-scale soil moisture and canopy heterogeneities on energy and soil water fluxes in a temperate mixed forest. Oral Presentation, 6/2012. *Computational methods in Water Resources*, Urbana-Champaign, IL.

198. Matheny* AM, Bohrer G. Mechanistic linking of stomata conductance to soil moisture using tree-level hydrodynamic model. Oral Presentation, 6/2012. *Computational methods in Water Resources*, Urbana-Champaign, IL.
199. Mesi* S, Bohrer G, Naor-Azrieli* L, Brooker* M, Mouser P. Spatial-temporal intermittency of methane flux in an urban temperate wetland. Poster, 6/2012. *12th Annual American Ecological Engineering Society Meeting*, Syracuse, NY.
200. Mouser P, Brooker* M, Mitsch WJ, Bohrer G. Factors Influencing Microbial Gas Production Rates in a Constructed Wetland Ecosystem. Oral Presentation, 5/2012. *American Meteorological Society, first Conference on Atmospheric Biogeosciences*, Boston, MA.
201. Bohrer G, Matheny* AM, Maurer* KD, Frasson* R. Modeling hydrodynamic stress limitations on transpiration. Oral Presentation, 5/2012. *American Meteorological Society 30th Conference on Agricultural and Forest Meteorology*, Boston, MA.
202. Bohrer G, Naor-Azrieli* L, Mesi* S, Mouser P, Stefanik* K, Schäfer KVR, Mitsch WJ. Determining the meteorological forcing that affect seasonal and diurnal dynamics of methane emissions at a constructed urban wetland in Ohio. Poster, 5/2012. *American Meteorological Society 30th Conference on Agricultural and Forest Meteorology*, Boston, MA.
203. Kenny* WT, Frasson* R, Bohrer G, Chatziefstratiou* E, Hadlocon L, Wyslouzil B, Zhao L, Eichinger WE. Measurements and large-eddy simulations of particulate matter dispersion over a vegetative wind-break. Oral presentation, 5/2012. *American Meteorological Society 30th Conference on Agricultural and Forest Meteorology*, Boston, MA (best student presentation award).
204. Bohrer G, Dodge* S, Wikelski M, Weinzierl R, Kays R, Brandes D, Garrity* S, Han J, Douglas D. Discovering relationships between climate and animal migration with new tools for linking animal movement tracks, weather and land surface data. Oral presentation, 4/2012. *NASA Biodiversity and Ecological Forecasting Team Meeting*, Seattle, WA.
205. Matheny* AM, Bohrer G, Curtis PS, Ivanov VY, Schäfer KVR. Plot-level measurements and modeling of sap flux - providing a mechanistic link between stomata conductance and soil moisture. Poster, 4/2012. *Department of Energy, Terrestrial Ecosystem Science PI meeting*, Washington, DC.
206. Gough CA, Curtis PS, Bohrer G, Nadelhoffer K. Sustained canopy light-use efficiency supports forest carbon storage resistance to moderate disturbance. Poster, 4/2012. *Department of Energy, Terrestrial Ecosystem Science PI meeting*, Washington, DC.
207. Hardiman* BS, Curtis PS, Bohrer G, Gough CA. Maintaining high rates of carbon storage in old forests: A mechanism linking canopy structure to forest function. 4/2012. *Department of Energy, Terrestrial Ecosystem Science PI meeting*, Washington, DC.
208. Maurer* KD, Bohrer G, Vogel CS, Curtis PS. Changes to canopy structure drive shifts in flux ejection-sweep dynamics at the Forest Accelerated Succession Experiment (FASET). Poster, 4/2012. *Department of Energy, Terrestrial Ecosystem Science PI meeting*, Washington, DC.
209. Maurer* KD, Bohrer G, He* L, Ivanov VY. Modeling the effects of increasingly heterogeneous canopy environments on flux dynamics using a high-resolution, forest-resolving large-eddy simulation (RAFLES). Poster, 4/2012. *Department of Energy, Terrestrial Ecosystem Science PI meeting*, Washington, DC.
210. Hardiman* BS, Gough CM, Bohrer G, Nadelhoffer KJ, Curtis PS. Old-growth ecosystem services as a conservation goal in Upper Great Lakes forests. Oral Presentation, 2/2012. *2nd Emerging Issues Conference of the Ecological Society of America: Developing Ecologically-Based Conservation Targets under Global Change*, Shepherdstown, WV.
211. Heilman WE, Kiefer MT, Bohrer G, Zhong S, Bian X, Clark KL, Hom JL, Skowronski NS, Getting a handle on local smoke transport during prescribed fires. Oral Presentation, 1/2012. *Science, Practice & Art of Restoring Ecosystems*, East Lansing, MI.
212. Schäfer KVR, Bohrer G, Naor-Azrieli* L, Mouser PJ, Mitsch WJ, Wu M. Temporal dynamics of methane fluxes in temperate urban wetlands. Oral presentation, 12/2011. *American Geophysical Union Fall Meeting 2011*. San-Francisco, CA.
213. Cheng SJ, Steiner AL, Nadelhoffer K, Bohrer G, Curtis PS. Effects of cloud optical thickness on net ecosystem exchange in a Northern U.S. Poster, 12/2011. *American Geophysical Union Fall Meeting 2011*. San-Francisco, CA.
214. Gough CM, Hardiman* BS, Bohrer G, Maurer* KD, Nave LE, Vogel CS, Curtis PS. Enhanced light use efficiency as a mechanism for forest carbon storage resilience following disturbance. Poster, 12/2011. *American Geophysical Union Fall Meeting 2011*. San-Francisco, CA.
215. Matheny* AM, Bohrer G, Ivanov VY, Stoy PC. Towards modeling hydrodynamic stress limitations on transpiration. Poster, 12/2011. *American Geophysical Union Fall Meeting 2011*. San-Francisco, CA.

216. He⁺ L, Ivanov VY, Bohrer G, Maurer^{*} KD, Vogel CS, Moghaddam M. The effects of fine-scale soil moisture and canopy heterogeneities on energy and soil water fluxes in a temperate mixed deciduous forest. Oral presentation, 12/2011. *American Geophysical Union Fall Meeting 2011*. San-Francisco, CA.
217. Kenny^{*} WT, Bohrer G, Garrity^{*} SR, Wyslouzil B, Zhao L, Eichinger WE. Large-eddy simulations of PM dispersion to quantify the effects of windbreaks on air quality around CAFOs. Poster, 12/2011. *American Geophysical Union Fall Meeting 2011*. San-Francisco, CA.
218. Bohrer G, Garrity^{*} SR, Chatziefstratiou^{*} EK, Heilman WE. Large eddy simulation of canopy-structure effects on smoke dispersion from low-burning prescribed fires. Oral presentation 10/2011. *9th Symposium on Fire and Forest Meteorology*. Palm Springs, CA, USA.
219. Bohrer G, Kays R, Wikelski M, Brandes D, Han J, Garrity^{*} SR, Douglas D. Discovering relationships between climate and animal migration with new tools for linking animal movement tracks with weather and land-surface data. Poster (+speed talk) 10/2011. *NASA Carbon Cycle & Ecosystems Joint Science Workshop*. Washington, DC.
220. Bohrer G, Matheny^{*} AM, Meyer^{*} K, Maurer^{*} KD. Detecting and modeling hydrodynamic stresses on stomatal conductance in the forest accelerated succession experiment (FASET). Poster 9/2011. *ILEAPS International Science Conference*. Garmisch-Partenkirchen, Germany
221. Curtis PS, Gough CM, Nave LE, Hardiman⁺ BS, Bohrer G, Halperin A, Vogel CS, Maurer^{*} KD, Nadelhoffer K., Le Moine J. Disturbance dynamics and the maintenance of sustained carbon storage in aging forests of the upper Great Lakes region. Oral presentation 8/2011. *96th Ecological Society of America Annual Meeting*. Austin, TX.
222. Chatziefstratiou^{*} EK, Bohrer G, Bova^{*} AS, Dickinson MB. FireStem II – A 2-D heat transfer model for simulation of stem damage in prescribed fires. Poster 8/2011. *96th Ecological Society of America Annual Meeting*. Austin, TX.
223. Kenny^{*} WT, Bohrer G, Garrity^{*} SR, Wyslouzil B, Zhao L, Eichinger W. Large-eddy simulations of PM dispersion to quantify the effects of windbreaks on air quality around CAFO's. Poster 6/2011. *Department of Agriculture 2011 Air Quality Project Directors' Meeting*, Washington, DC.
224. Roberts D, Bohrer G. Darwin's "uniform green carpet": modelling the theoretical limits to the dispersal of orchid seeds. Oral presentation 6/2011. *4th International Orchid Conservation Congress*, Hluboka, Czech Republic.
225. Naor-Azrieli^{*} L, Bohrer G, Mitsch W. Collaborative research: Greenhouse gas balance of urban temperate wetlands. Oral presentation 5/2011. *Annual Meeting of the American Ecological Engineering Society*, Asheville, NC.
226. Chatziefstratiou^{*} TK, Bohrer G, Bova^{*} AS, Dickinson MB. FireStem II – a 2-D heat transfer model for simulation of stem damage in prescribed fires. Poster 5/2011. *4th Fire in Eastern Oak Forests Conference*, Springfield, MO.
227. Zhu^{*} K, Jones^{*} RL, Bohrer G. Large eddy simulation and lidar 3-D mapping for optimization of wind power generation in limited-space applications. Poster 4/2011. *University Clean Energy Alliance of Ohio 5th annual conference*, Columbus, OH.
228. Ivanov VY, He⁺ L, Bohrer G, Vogel CS, Moghaddam M. Upscaling tree-scale canopy and soil water heterogeneity for a temperate deciduous forest of Northern Michigan. Oral presentation 4/2011. *European Geosciences Union General Assembly 2011*. Vienna, Austria.
229. Bohrer G. Assessing the effects of hydrodynamic stresses on stomatal conductance in forest patches with trees of difference structures, sizes and species. Oral Presentation, 3/2011. *CESM LMWG/BGCWG meeting*, NCAR, Boulder, CO.
230. Garrity^{*} SR, Bohrer G, Mueller K, Maurer^{*} KD, Vogel CS, Curtis PS. Measuring forest phenology: A comparison of seven contemporary methods. Poster, 2/2011. *AmeriFlux Science Meeting & 3rd NACP All-Investigator Meeting*, New Orleans, LA.
231. Curtis PS, Gough CM, Nave LE, Hardiman⁺ BS, Bohrer G, Halperin A, Vogel CS, Maurer^{*} KD, Nadelhoffer K, Le Moine J. Forecasting carbon storage in aging forests of the upper Mid-West: New insights from the Forest Accelerated Succession Experiment (FASET). Oral presentation, 2/2011. *AmeriFlux Science Meeting & 3rd NACP All-Investigator Meeting*, New Orleans, LA.
232. He⁺ L, Ivanov VY, Bohrer G, Maurer^{*} KD, Vogel CS, Hardiman⁺ BS, Curtis PS, Moghaddam M. Effect of fine-scale canopy heterogeneity on energy and soil water fluxes in a northern temperate deciduous forest. Poster, 2/2011. *AmeriFlux Science Meeting & 3rd NACP All-Investigator Meeting*, New Orleans, LA.
233. Maurer^{*} KD, Bohrer G, Curtis PS, Vogel CS, Ivanov VY, Hardiman⁺ BS. Measuring changes to canopy structure and productivity during accelerated succession at an AmeriFlux site in Northern Michigan. Poster, 2/2011. *AmeriFlux Science Meeting & 3rd NACP All-Investigator Meeting*, New Orleans, LA.
234. Bohrer G, Medvigy D. Dynamic evapotranspiration in tree-resolving LES – The ED2RAFLES model. Poster, 12/2010, *AGU Fall Meeting*, San Francisco, CA.

235. He⁺ L, Ivanov VY, Vogel, CS, Bohrer G, Moghaddam M. Temporal dynamics and spatial heterogeneity of soil moisture in a northern temperate deciduous forest. Poster, 12/2010, *AGU Fall Meeting*, San Francisco, CA.
236. Gough CM, Nave LE, Hardiman⁺ BS, Bohrer G, Halperin A, Maurer^{*} K, Le Moine J, Nadelhoffer K, Vogel CS, Curtis PS. High rates of carbon storage in old deciduous forests: Emerging mechanisms from the Forest Accelerated Succession Experiment (FASET). Poster, 12/2010, *AGU Fall Meeting*, San Francisco, CA.
237. Garrity^{*} S, Bova^{*} AS, Heilman W, Skowronski N, Bohrer G. Large eddy simulation of canopy structure effects on smoke dispersion from prescribed fire. Poster, 10/2010, *Third Fire Behavior and Fuels Conference*, Spokane, WA.
238. Heilman W, Skowronski N, Bian X, Shadbolt R, Zhong S, Clark K, Charney J, Bohrer G, Kiefer M, Hom J. Development and validation of modeling tools for predicting smoke dispersion during low-intensity fires. Poster (+ extended abstract), 10/2010, *Third Fire Behavior and Fuels Conference*, Spokane, WA.
239. Bova^{*} AS & Bohrer G. Forest canopy sub-layer turbulence and atmospheric coupling in a wildland fire model. Oral Presentation, 8/2010, *The 29th Conference on Agricultural and Forest Meteorology*, Keystone, CO.
240. Velissariou^{*} V & Bohrer G. Resolving a forest-strip induced uplift region using the shaved-grid-cell method with large eddy simulations. Oral Presentation, 8/2010, *The 29th Conference on Agricultural and Forest Meteorology*, Keystone, CO.
241. Goedhart Nietz J, Bohrer G, Detto M, Maurer^{*} KD, Vogel CS, Gough CM & Curtis PS. Linking GPP and soil respiration during partial forest canopy senescence. Poster, 8/2010. *Ecological Society of America, Annual meeting 2010*. Pittsburgh, PA.
242. Hardiman⁺ BS, Gough CM, Bohrer G, Vogel CS & Curtis PS. Structural and biological diversity increase NPP resiliency during forest succession, Poster, 8/2010. *Ecological Society of America, Annual meeting 2010*. Pittsburgh, PA.
243. Baker DV, Damschen EI, Bohrer G & Turner JR. Importance of spatial and individual heterogeneity for wind-dispersed plants. Poster, 8/2010. *Ecological Society of America, Annual meeting 2010*. Pittsburgh, PA.
244. Bova^{*} AS, Dickinson MB & Bohrer G. Estimating the protection given by natural and artificial animal shelters in wildland surface fires. Poster, 8/2010. *Ecological Society of America, Annual meeting 2010*. Pittsburgh, PA.
245. Bohrer G. Large-eddy simulations of PM dispersion to quantify the effects of windbreaks on air quality around CAFO's. Poster, 8/2010. *2010 AFRI Air Quality PD Meeting*, Amarillo, TX.
246. Bova^{*} AS, Bohrer G, Dickinson MB. The effects of canopy heterogeneity on fuel moisture and wildland fires. Poster, 4/2010, *NASA Land-Cover and Land-Use Change Program Science Team Meeting*. Bethesda, MD.
247. Bohrer G, Shlomo^{*} D, Yair S, Berenshtein I. Eddy flux observations of evaporation and vapor advection in the Gulf of Aqaba (Eilat), northern Red Sea. Poster, 2/2010, *AGU Ocean Science Meeting*, Portland, OR.
248. Bova^{*} AS, Dickinson MB, Bohrer G. Ventilation of animal shelters in wildland fire scenarios. Poster, 11/2009, *4th International Fire Ecology and Management Congress*, Savannah, GA.
249. Heilman WE, Zhong S, Charney JC, Hom J, Clark K, Bohrer G, Skowronski N, Bian X, Kiefer MT. Development of modeling tools for predicting smoke dispersion from low intensity fires. Poster, 11/2009, *4th International Fire Ecology and Management Congress*, Savannah, GA.
250. Bova^{*} AS, Bohrer G, Dickinson MB. Ventilation of Animal Shelters in Wildland Fire Scenarios. Oral presentation, 12/2009. *AGU fall meeting 2009*, San-Francisco, CA.
251. Maurer^{*} KD, Bohrer G, Curtis PS, Vogel CS. The phenology of roughness length – long term analysis from a Michigan mixed forest. Poster, 12/2009. *AGU fall meeting 2009*, San-Francisco, CA.
252. Curtis P, Gogh CM, Hardiman⁺ BS, Vogel CS, Bohrer G. Mechanisms for sustained carbon storage in old forests: Early results from the Forest Accelerated Succession Experiment (FASET). Poster, 12/2009. *AGU fall meeting 2009*, San-Francisco, CA.
253. Bohrer G, Walko RL. The Ocean-Land-Atmosphere Model (OLAM) – A new approach for simulation of transport and dispersion. Poster, 12/2009. *SERDP-ESTCP Symposium 2009: Partners in Environmental Technology*, Washington, DC.
254. Curtis PS, Gough CM, Vogel CS, Hardiman⁺ BS, Bohrer G, Nave LE. Carbon cycling in future forests: An ecological succession experiment at the University of Michigan Biological Station. Oral presentation, 9/2009. *AmeriFlux Principal Investigator Workshop*, Washington, DC.
255. Hardiman⁺ BS, Bohrer G, Gough CM, Vogel CS, Curtis PS. Net primary productivity is positively correlated with canopy structural complexity in a northern hardwood forest. Oral Presentation, 8/2009. *Ecological Society of America (ESA) 94th Annual Meeting*, Albuquerque, NM.
256. Chiriboga AT, Hardiman⁺ BS, Bohrer G, Vogel CS, Curtis PS. Comparing LiDAR based estimates of height, DBH and biomass with biometric measurements. Poster, 6/2009. *Carbon in Northern Forests: Integration of research and management*, Traverse City, MI.
257. Hardiman⁺ BS, Bohrer G, Gough CM, Vogel CS, Curtis PS. Net primary productivity is positively correlated with canopy structural complexity in a northern hardwood forest. Poster, 6/2009. *Carbon in Northern Forests: Integration of Research and Management*, Traverse City, MI.

258. Bohrer G, Moorcroft PR. The Atmospheric effects of selective logging in the Amazon – An LES case study. Poster, 12/2008. *AGU fall meeting 2008*, San-Francisco, CA.
259. Curtis PS, Gough CM, Vogel CS, Hardiman* B, Bohrer G, Nave LE. Projecting carbon cycling trajectories in forests of the upper Midwest, USA: Has carbon storage peaked? Poster, 12/2008. *AGU fall meeting 2008*, San-Francisco, CA.
260. Bova* AS, Bohrer G. Small scale surface heterogeneity effect on atmospheric-boundary layer turbulence – Potential application for optimization of wind turbine location. Poster, 11/2008. *Institute for Energy and the Environment – Alternative Energy Poster Session* Columbus, OH.
261. Bohrer G, Longo M, Zielinski DJ, Brady R. VR visualization as an interdisciplinary collaborative data exploration tool for large eddy simulations of biosphere-atmosphere interactions. Oral presentation, 11/2008. *4th International Symposium on Visual Computing*, Las Vegas, NV.
262. Bohrer G, Brady R. VR interface to facilitate multi-disciplinary collaboration in data exploration of the forest large eddy simulations, Oral presentation, 10/2008. *VisWeek 08 Workshop on Scientific Workflow with Immersive Interfaces for Visualization*, Columbus, OH.
263. Bohrer G, Katul GG, Avissar R, Moorcroft PR. Large-eddy simulations of the effects of forest canopy microscale structural heterogeneity. Poster, 5/2008. *The 4th Annual Plant Biology Symposium*, Harvard University, Cambridge, MA.
264. Bohrer G, Katul GG, Walko RL, Avissar R. Large-Eddy simulations of forest canopy micro-scale structural heterogeneity effects on the atmospheric boundary layer. Poster, 12/2007. *AGU fall meeting 2007*, San-Francisco, CA.
265. Bohrer G, Walko RL, Avissar R. A New Concept for Representing Trees in LES Simulations, Oral presentation, 12/2006. *AGU fall meeting 2006*, San-Francisco, CA.
266. Bohrer G, Walko RL, Avissar R. RAFLES – a new generation high-resolution model for simulation of turbulence and dispersal within and above forest canopies. Poster, 1/2006. *1st Integrated Land Ecosystem-Atmosphere Processes Study Conference*, Boulder, CO.
267. Bohrerova Z, Bohrer G, Linden KG, Ducoste JJ, Mohanraj MS. Experimental measurements of fluence distribution in a UV reactor using fluorescent microspheres. Oral Presentation 11/2005. *Water Quality Technology Conference*, Québec City, Canada
268. Bohrer G, Ramos da Silva R, Otte M, Werth D, Avissar R. Sensitivity of ice storms in the southeast US to elevated Atlantic SST. Poster, 5/2005. *International conference of Israeli Society for Ecology and Environmental Quality Sciences*. Weizmann Institute, Rehovot, Israel.
269. Bohrer G, Ward D, Roth-Bejerano N, Kagan-Zur V. Different hosts gain different benefits from communities of Kalahari VAM fungi. Oral presentation, 8/2000. *85th Annual meeting of the Ecological Society of America*. Snowbird, Utah.
270. Bohrer G, Ward D, Kagan-Zur V, Roth-Bejerano N. Correlation between abundance of endomycorrhizal fungal communities, environmental conditions and plant community composition in the Kalahari desert. Poster, 7/1999. *42nd Annual symposium of the International Association for Vegetation Science*. Bilbao, Spain.

Invited Seminar Presentations

271. *Karlsruhe Institute of Technology, Institute of Meteorology and Climate Research, Research Seminar, Garmisch-Partenkirchen, Germany.* “The Methane Paradox: Observations of methane production in aerobic wetland soils”, 7/2018.
272. *NC State Museum of Natural Sciences*, Short course on analyzing animal tracking data, Raleigh, NC. “The Environmental-Data Automated Track Annotation (*Env-DATA*) system”, 5/2018.
273. *Washington State University, Civil and Environmental Engineering*, Pullman, WA. “Drivers of methane emissions from a small, heterogeneous urban wetland park”, 5/2018.
274. *Meter Group*, Pullman, WA. “Plant hydrodynamics – Mechanistic linking of stomatal conductance to soil moisture”, 5/2018.
275. *Ohio State University, Microbiology Bio3401*. “Climate change”, 3/2018.
276. *Ohio State University, Center for Applied Plant Science*. “Plant hydrodynamics – mechanistic linking of stomatal conductance to soil moisture”, 3/2018.
277. Haifa University, Haifa Israel. “Why did the [vulture] cross the [mountains] – Insights from tag-based and remote-sensing-based movement track annotation [insert your animal/ecosystem here, e.g. Chicken/road]” 10/2017.
278. *NASA Earth to Sky Workshop @NWT*, Yellowknife, NWT, Canada, “Animals on the move: Remote sensing of drivers influencing animal movements and habitat selection in the Arctic and beyond”, 4/2017.
279. Kent State University, *Department of Biological Sciences*, Kent, OH, “Drivers of methane emissions from a small, heterogeneous urban wetland park. 10/2016.

280. *University of Montreal, Department of Geography*, Montreal, Canada, "I reject your reality and substitute my own – model-augmented observations in ecohydrology". 9/2016.
281. *Hebrew University, Avian Ecology, Evolution and Behavior Seminar*, Jerusalem, Israel, "Modeling animal movement with environmental context". 6/2016.
282. *Haifa University, Department of Biology, Bird tracking mini-symposium*, Haifa, Israel, "Wind estimation based on thermal soaring of birds". 5/2016.
283. *The Mitrani Department of Desert Ecology, Ben-Gurion University of the Negev, Departmental Seminar*, Sede Boker, Israel, "Forest X Atmosphere interactions – How forest structure affects the ecosystem water budget". 4/2016.
284. *Weizmann Institute, Dept. of Environmental Sciences & Energy Research, CLIFF project, Second year annual meeting*, Rehovot, Israel, "Advances in tree hydrodynamic modeling". 2/2016.
285. *Volcani Institute for Agricultural Research, Research Seminar*, Rehovot, Israel, "Tree-level hydrodynamic approach for improved stomatal conductance parameterization". 2/2016.
286. *University of Würzburg, 7th MICMoR Research Forum*, Würzburg, Germany, *The upcoming revolution of plant hydrodynamics and a tale of navigation in the interdisciplinary maze*. 11/2015.
287. *Karlsruhe Institute of Technology, Institute of Meteorology and Climate Research, Research Seminar*, Garmisch-Partenkirchen, Germany, "New plant hydrodynamic approach to simulate hydraulic limitations of forest transpiration". 7/2015.
288. *Karlsruhe Institute of Technology, Institute of Meteorology and Climate Research, Graduate Student Seminar Series*, Garmisch-Partenkirchen, Germany, "Research Career Pathways". 7/2015.
289. *ETH Zurich, Department of Hydrological Engineering*, Zurich, Switzerland, "Tree-level hydrodynamic approach for improved stomatal conductance parameterization". 6/2015.
290. *ETH Zurich, Department of Hydrological Engineering*, Zurich, Switzerland, "See the forest for the trees – The role of tree-scale structural heterogeneity in forest-atmosphere exchange". 6/2015.
291. *University of Kent, Statistical Ecology Group Seminar*, Canterbury, UK, "Hierarchical Testing of Individual-Based Models to Determine Effective Environmental Drivers of Movement". 5/2015.
292. *University of Bristol, School of Biological Sciences, Biocomplexity Seminar*, Bristol, UK, "The Environmental-Data Automated Track Annotation (Env-DATA) system – providing the environmental context for animal movement research". 5/2015.
293. *Tel Aviv University and the Society for the Protection of Nature in Israel - "The Way of a Vulture in the Sky..." Lecture day*, Tel Aviv, Israel, "Using satellite and weather data for predicting the flight characteristics of birds". 4/2015.
294. *Ohio State University, Environmental Professional Network, EPN Breakfast Club - "Unmanned Aerial Vehicle: Environmental and Ag Applications Take Flight"*, Columbus, OH, "Use of drones in ecosystem –climate interactions studies". 11/2014.
295. *University of Delaware – Seminar, School of Marine Science and Policy Seminar*, Lewes, DE, "Movement Weather – New Tools for Studying Animal Movement and Their Environment". 9/2014.
296. *Zoological Center – Tel Aviv, Science Lecture Series*, Ramat Gan, Israel, "Why would the bird care? Using satellite remote sensing to study how migrating animals utilize weather and environmental conditions", 8/2014.
297. *NASA DEVELOP National Program*, Washington, DC, "Discovering relationships between climate and animal migration with new tools for linking animal movement tracks, weather and land surface data". 7/2014.
298. *Oregon State University – Seminar, Department of Biological and Ecological Engineering*, Corvallis, OR, "Tree-scale hydrodynamics – why the high-resolution details of forest structure matter". 6/2014.
299. *AmeriFlux Data Managers Workshop*, Lawrence Berkeley National Laboratory, Berkeley, CA, "The University of Michigan Biological Station core flux site." 2/2014.
300. *Ohio State University – Seminar, Department of Evolution, Ecology and Organismal Biology – "From trees to forests: modeling the interactions between vegetation structure and the movement of water along the hydro-bio-atmo-sphere continuum"*. 1/2014.
301. *Decagon Devices – online public webinar*, Pullman, WA, "From trees to forests - modeling the interactions between vegetation structure and the movement of water along the hydro-bio-atmo-sphere continuum." 11/2013.
302. *Decagon Devices Inc.*, Pullman, WA, "Canopy-structure effects on atmospheric surface layer." 10/2013.
303. *University of Idaho, College of Natural Resources*, Moscow, ID, "From trees to forests - modeling the interactions between vegetation structure and the movement of water along the hydro-bio-atmo-sphere continuum." 10/2013.
304. *North Carolina State Museum of Natural Sciences Daily Planet Presentations*, Raleigh, NC, "Movement weather – new tools for studying animal movement and their environment." 7/2013.

305. *Midwest Flux Core-Site Workshop*, Bloomington, ID, "Relationships between roughness length and forest structure – results from observations and large eddy simulations". 6/2013.
306. *USGS Geo Data Portal Development Group*, "The Environmental-Data Automated Track Annotation (Env-DATA) system". 4/2013.
307. *US Fish & Wildlife Service National Climate Team Meeting*, Washington, DC. "The Environmental-Data Automated Track Annotation (Env-DATA) system – new possibilities in processing and interpretation of animal movement data". 4/2013.
308. *Smithsonian Tropical Research Institute – CTFS-science meeting*, Panama city, Panama. "From forest to trees – how changes to tree-level structure affect the hydrologic, atmospheric and productivity functions of the forest". 3/2013.
309. *NASA Earth to Sky VI workshop*, Shepherdstown, WV, "Migration track annotation - New tools for linking animal movement tracks with weather and land-surface data", 2/2013.
310. *Environmental Friendly Drilling Workshop – Site Assessment and Baseline Monitoring Measurements in Ohio*, Columbus, OH, "Measuring methane in the air". 2/2013.
311. *University of Wisconsin – Milwaukee, Department of Biological Sciences*, Milwaukee, WI, "A framework for incorporating the effects of hydrodynamic stresses on forest photosynthesis and evaporation". 10/2012.
312. *University of Michigan Biological Station, All-Camp Lecture Series*, Pellston, MI, "Strategies of water use – how different trees manage their water, and what does it mean for the forest as it changes". 7/2012.
313. *Denali Education Center Community Lecture Series*, Denali, AK, "Animal weather forecasts - satellite data help show what migrating animals know and like about the weather". 6/2012.
314. *Movebank Track Annotation Workshop #2*, Denali, AK, "Environmental data in Movebank - introduction and updates". 6/2012.
315. *North Carolina Museum of Natural Sciences, Nature Research Center Opening – Meet a Scientist Lecture*, Raleigh, NC, "If a tree moves in the wind – do the clouds care?" 4/2012.
316. *The Water Management Association of Ohio and The Water Resources Center, Water Luncheon Seminar*, Columbus, OH, "Determining the Meteorological Forcing that Affects the Dynamics of Methane Emissions from Wetlands", 4/2012.
317. *University of Wisconsin, Atmospheric Science Departmental Seminar*, Madison, WI, "Detecting and modeling hydrodynamic stresses on stomatal conductance in the Forest Accelerated Succession Experiment (FASET)", 3/2012.
318. *Biological Response to Climate Change: Track Annotation Workshop*, Point Reyes, CA, "Migration track-annotation: New tools for linking animal movement tracks with weather and land-surface data", 11/2011.
319. *NASA Earth to Sky V workshop*, Shepherdstown, WV, "Migration track annotation - New tools for linking animal movement tracks with weather and land-surface data", 9/2011.
320. *University of Washington, Dept. of Atmospheric Science*. Seattle, WA, "Modeling the interactions between forest structure and forest function at the atmospheric surface layer", 2/2011.
321. *Hebrew University, EEB Departmental Seminar*, Jerusalem, Israel. "Forest-Atmosphere interactions - Where structure meets function". 11/2010.
322. *National Institute of Soil, Water and Environmental Science*, Bet-Dagan, Israel, "Tree-level simulations of transpiration - can the trees add details to the forest?" 11/2010.
323. *Weizmann Institute of Science, ESER seminar*, Rehovot, Israel, "From trees to forests - modeling the interactions between vegetation structure and atmosphere dynamics". 11/2010.
324. *OSU College of Engineering, Continuing Professional Education Seminar*. Columbus, OH, "More than simply trees – forest-atmosphere interactions as potential for green solutions", 9/2010.
325. *University of Michigan Biological Station, All Camp Lecture*. Pellston, MI, "Modeling the Interactions between forest structure and forest function at the atmospheric surface layer", 7/2010.
326. *Washington University, Ecology Seminar Series*, St. Louis MO. "Modeling the interactions between forest structure and forest function at the atmospheric surface layer", 4/2010.
327. *Ohio State University, Mechanical Engineering Seminar*. Columbus, OH, "Tree-scale representation of forests in atmospheric simulation - Connecting forest function with canopy structure", 4/2010.
328. *Woods Hole Oceanographic Institution, Physical Oceanography Seminar*. Woods Hole, MA, "Eddy flux observations of evaporation and vapor advection in the Gulf of Aqaba (Eilat), northern Red Sea", 12/2009.
329. *Olentangy River Wetland Research Park "Wednesday Afternoon on Your Way Home" Seminar*, Columbus, OH, "Roughness, evaporation and surprisingly difficult surface interactions - Eddy flux observations of ORW and beyond", 11/2009.
330. *Smithsonian Tropical Research institute, BAMBI Seminar series*, Barro Colorado Island, Panama, "Interactions between forest and atmosphere: The tree-crown point of view", 10/2009.

331. *Max Planck Institute of Ornithology, MoveBank Water-Bird Tracking Workshop*, Konstanz, Germany, "Weather data in MoveBank", 9/2009.
332. *Max Planck Institute of Ornithology, Radolfzell*, Germany. "Riding the eddies – movement ecology of flight", 9/2009.
333. *University of Amsterdam, Computational geo-Ecology Seminar*, Amsterdam, Holland, "Modeling the interactions between forest and atmosphere at a tree-crown resolution", 9/2009.
334. *US Forest Service, E. Lansing, MI*. "The effects of canopy structure on atmosphere-biosphere interactions", 6/2009.
335. *Inter-University Institute for Marine Research, Seminar Series*, Eilat, Israel, "Modeling the interactions between forest structure and forest function at the atmospheric surface layer", 3/2009.
336. *University of Michigan, Dept. Civil & Environmental Engineering Seminar Series*, Ann Arbor, MI, "Simulating the effects of tree-scale canopy structure on atmosphere biosphere interactions", 11/ 2008.
337. *US Forest Service, Northern Research Station*, Delaware, OH, "The effects of canopy structure on atmosphere-biosphere interactions", 10/2008.
338. *Harvard University, Department of Earth and Planetary sciences, Atmospheric Seminar*. Cambridge, MA, "3-D virtual reality visualization of wind in the Amazon forest: Atmospheric-biosphere interactions at local and regional scales", 4/2008.
339. *University of Minnesota, St. Antony Falls Laboratory*, Minneapolis, MN, "Large-eddy simulations of forest-canopy micro-scale structural heterogeneity and its effects on the atmospheric boundary layer", 2/2008.
340. *King's College, Dept. of Geography*, London, GB, "Tree-scale hydrometeorology: determining the environmental consequences of forest structure", 5/2007.
341. *Duke University, Department of Computer Science, Visualization Technology Group*, Durham, NC, "See the wind blow – virtual reality as a development and a science-communication tool for large eddy simulations", 4/2007.
342. *University of Georgia, Faculty of Engineering*, Athens, GA, "Tree-scale hydrometeorology: simulating the effects of forest heterogeneity on atmosphere-biosphere interactions", 4/2007.
343. *Ohio state University, Department of Civil and Environmental Engineering and Geodetic Science*, Columbus, OH, "Tree-scale hydrometeorology: simulating the effects of forest heterogeneity on atmosphere-biosphere interactions", 3/2007.
344. *Stanford University, Dept. of Civil and Environmental Engineering*, Stanford, CA, "Tree-scale hydrometeorology: simulating the effects of forest heterogeneity on atmosphere-biosphere interactions", 3/2007.
345. *Colorado state University, Department of Civil and Environmental Engineering*, Fort Collins, CO, "Tree-scale hydrometeorology: simulating the effects of canopy heterogeneity on atmosphere-biosphere interactions", 3/2007
346. *Harvard University, Center for the Environment*, Cambridge, MA, "Simulations of tree-scale atmosphere-biosphere interactions", 3/2007.
347. *University of California Irvine, Global Change Ecology Group*, Irvine, CA, "Forest hydrometeorology from the trees perspective", 1/2007.
348. *Duke University, Department of Computer Science, Visualization Technology Group*, Durham, NC, "A tour in the virtual forest", 10/2005.
349. *Weizmann Institute of Science, Israel, Dept. of Environmental Sciences & Energy Research*. Rehovot, Israel, "Simulating a forest – From tree hydrology to wind in the canopy", 6/2005.
350. *Ben Gurion University, Mitrani Dept. for Desert Research*, Sede Boker, Israel, "Sponge, big leaf or electric circuit – Which is a better model for tree hydrology?", 5/2005.
351. *Tel-Aviv University, Dept. of Plant Sciences*, Tel Aviv, Israel, "Modeling the population and genetic effects of LDD", 5/2005.
352. *Ben Gurion University, Institutes of Applied Research*, Beer Sheva, Israel, "Modeling the population and genetic effects of LDD", 5/2005.

SERVICE

University Service

- Chair, Faculty mentoring Committee, *Civil, Environmental & Geodetic Engineering*, 6/2018 - Current.
- Member, Promotion and tenure Committee, *Civil, Environmental & Geodetic Engineering*, 4/2018- Current.
- Chair, Faculty Search Committee, Hydrology, *Civil, Environmental & Geodetic Engineering*, 9/2017-4/2018.

Member, Faculty Search Committee, Sustainable Water Engineering, *Food, Agricultural & Biological Engineering/Sustainable and Resilient Economy Discovery Theme*, 11/2017-3/2018.
Member, Graduate Studies Committee, *Civil, Environmental & Geodetic Engineering*, 9/2008-4/2011, 11/2012-8/2014, 8/2016-8/2017.
Chair, University sustainability-goals teaching and learning workgroup. 1/2015-6/2015.
Member, Faculty Search Committee, discovery themes – sensor analytics, 11/2014-5/2015.
Member, Faculty Search Committee, joint hire in energy policy, *College of Engineering-Glenn School of Public Policy*, 8/2012-2/2013.
Member, Environmental Sciences Advisory Committee, *Ohio State University*, 2010-2012.
Member, Graduate Studies Committee, *Environmental Sciences Graduate Program*, 2011-2012.
Chair, Graduate Studies Committee, *Environmental Sciences Graduate Program*, 2009-2011.
Member, Faculty Search Committee, *Civil & Environmental Engineering*, 9/2010-3/2011.
Member, Special Task-Force on Alternative Energy, *College of Engineering*, 2009-2010.

Editorial Activity, Journal and Grant Review

Editorial Board Member:

2017 – Current Associate Editor, *Journal of Geophysical Research-Biogeosciences*.
2015 – Current Editor, *Plant Diversity*.
2013 – Current Editorial Board Member, *Movement Ecology*.
2017 – 2019 Guest Editor, Special Issue (canopy traits), *Forests*
2017 – 2018 Review Editor, *2nd State of the Carbon Cycle Report (SOCCR-2)*, Chapters: 1, 13.
2012 – 2017 Editorial Board Member, *Advances in Water Resources*.
2011 – 2017 Associate Editor, *PLoS One*.

Journal/book Referee (current year):

Water resources Engineering – Chin 4th Edition; Atmospheric Measurements Techniques; Agricultural and Forest Meteorology; Boundary-Layer Meteorology; Environmental Modelling and Software; Journal of Computational Science Education; International Journal of GIS; Philosophical Transactions of the Royal Society B; Ecology Letters; Ecology & Evolution; Global Change Biology; Integrative and Comparative Biology; Ecological Engineering; Journal of the Royal Society Interface; Atmospheric Chemistry and Physics; Hydrology and Earth System Science (HESS); Geophysical Research Letters.

Service and Affiliation to Professional Societies

Max Planck Society – Member of the Executive Board of the ICARUS Satellite Mission
American Meteorological Society - Member of the Agricultural & Forest Meteorology Scientific and Technological Activities Commission (STAC), 2012 – current.
American Meteorological Society – Referee of Outstanding Student Presentation Award, Agricultural & Forest Meteorology Meeting 2014.
American Geophysical Union – Referee of Outstanding Student Presentation Award, AGU Fall Meeting 2011, 2012, 2014, 2016.
Affiliation - American Meteorological Society; American Geophysical Union

Conference Session Convener/Organizer

Conference Session Chair – *American Meteorological Society 33rd Conference on Agricultural Forest Meteorology, Session 6: Vegetative Response to Changing Soil and Atmospheric Conditions Part II*, 5/2018. Boise, ID.
Conference Organizer - *Short course on analyzing animal tracking data*, 5/2018. Raleigh, NC
<https://www.eventbrite.com/e/short-course-on-analyzing-animal-tracking-data-tickets-41943048788>
Conference Organizer - *Short course on analyzing animal tracking data*, 5/2017. Raleigh, NC
<https://www.eventbrite.com/e/short-course-on-analyzing-animal-tracking-data-tickets-30888527417>
Conference Organizer - *NSF Mobility Workshop - Workshop on Analyzing Movement and Mobility within Geographic Context*. 5/2017. Columbus, OH <https://cura.osu.edu/may17>
Panelist, “Species Migration”, *Earth to Sky Seminar @NWT*, 4/2017. Yellowknife, Canada

Discussion Leader "Global Environmental Changes and Movement", Gordon Research Conference -Movement Ecology of Animals, 3/2017. Ventura, CA.
<https://www.grc.org/programs.aspx?id=17363>

Conference Session Convener - B14B: Carbon and Water Cycling in Terrestrial Ecosystems during the Anthropocene (8 talks, 34 posters), *American Geophysical Union Fall Meeting 2016*, San Francisco, CA, 12/2016.

Conference organizer - *Workshop on measuring and analyzing interactions among mobile entities at UT*, Austin, <https://sites.utexas.edu/interaction/> TX, 11/2016.

Conference Session Convener - *Opportunities for Conservation Advances in Movement Analyses and their Applications to Wildlife Conservation* (6 talks), 23rd annual conference of the wildlife society, Raleigh NC, 10/2016.

Panelist, The future direction of movement analysis (Panel Discussion). GIScience 2016, Workshop on Analysis of Movement Data (AMD'16), 9/2016. Montreal, Canada.

Conference organizer - *Symposium on Animal Movement and the Environment*, Raleigh, NC, 5/2014.

Conference Session Moderator - Migration research talks, *Symposium on Animal Movement and the Environment*, Raleigh, NC, 5/2014.

Conference Session Convener - Remote-sensing the impact of climate change on wildlife, *American Geophysical Union Fall Meeting 2013*, San Francisco, CA, 12/2013.

Conference Exhibitor at the OSU Environmental Network Booth, *EcoSummit 2012*, Columbus, OH, 10/2012.

Conference Symposium Chair - Symposium 59-Carbon sequestration and greenhouse gases in wetlands, *EcoSummit 2012*, Columbus, OH, 10/2012.

Conference Panelist - *ICARUS planning meeting*, Max Planck institute of Ornithology, Ringberg Castle, Lake Tegernsee, Bavaria, Germany, 7/2012.

Conference Session Convener - *American Geophysical Union Fall Meeting 2011*, San Francisco, CA, Dec 2011.

Conference Session convener - Innovative Methods Poster Session, 3rd *iLEAPS International Science Conference*, Garmisch Partenkirchen, Bavaria, Germany, 9/2011.

Conference Panelist - Pulse of the living planet - 1st *discussion meeting on the global tracking of animals*, Max Planck Institute of Ornithology, Washington, DC, 3/2011.