

CURRICULUM VITAE

University of Idaho
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NAME: Tara W. Hudiburg

DATE: 08/01/2018

RANK OR TITLE: Assistant Professor

DEPARTMENT: Forest, Rangeland, and Fire Sciences

OFFICE LOCATION AND CAMPUS ZIP: CNR 204b
Moscow, ID
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DATE OF FIRST EMPLOYMENT AT UI: August 14, 2014

DATE OF TENURE: untenured

DATE OF PRESENT RANK OR TITLE: August 2014

EDUCATION BEYOND HIGH SCHOOL:

- 2008-2012 **PhD:** Forest Ecology, Department of Forest Ecosystems and Society, Oregon State University
Advisors: Dr. Bev Law, Dr. Peter Thornton, Dr. Richard Waring, and Dr. Dominique Bachelet
Foci: ecosystem ecology (plants), ecosystem modeling, climate change, biogeochemical cycling, bioenergy
Dissertation: *'Analysis of the Regional Carbon Balance of Pacific Northwest Forests Under Changing Climate, Disturbance, and Management for Bioenergy'*
- 2005-2007 **MS:** Forest Ecology, Department of Forest Science, Oregon State University
Advisors: Dr. Beverly Law, Dr. Peter Thornton, Dr. David Turner, and Dr. Warren Cohen
Foci: carbon sequestration, forest management and disturbance, remote sensing
Thesis: *'Climate, Management, and Forest Type Influences on Carbon Dynamics of West-Coast US Forests'*
- 1994-1998 **BS:** Biology, Department of Biology, Pacific Lutheran University, Tacoma, Washington
Advisor: Dr. David Hansen
Foci: ecology, plant water relations
Thesis: *'Water Relations and Gas Exchange Rates of Red Alder and Big Leaf Maple'*

EXPERIENCE:

Teaching, Extension and Research Appointments

- 2014 - Assistant Professor, Department of Forestry, Rangeland, and Fire Sciences, University of Idaho, Moscow, Idaho
- 2014 - Affiliate faculty, Environmental Sciences Program, University of Idaho, Moscow, ID
- 2014 - Affiliate faculty, Ecology and Conservation Biology Program, University of Idaho, Moscow, ID
- 2012 - 2014 Postdoctoral Research Associate, Department of Plant Biology, University of Illinois, Urbana, Illinois
- Summer 2010 Microsoft Graduate Intern, Microsoft Research at Lawrence Berkeley National Lab, Berkeley, California
- 2006 - 2012 Graduate Research Assistant, Department of Forest Ecosystems and Society, Oregon State University, Corvallis, Oregon
- 2004 - 2005 Field Ecology Research Assistant, Department of Forest Science, Oregon State University, Corvallis, Oregon

Non-Academic Employment

1999-2003 Programmer / Analyst, Information Technology, Chapman University, Orange, California

TEACHING ACCOMPLISHMENTS:**Areas of Specialization:**

Ecosystem Modeling, Ecology, Biogeochemistry

Courses Taught:

FOR 221: *General Ecology*, Spring 2015, Spring 2016, Spring 2017, Spring 2018 (3 cr.) (100+ students)

FOR 529: *Forest Ecosystem Analysis and Modeling*, Fall 2015, Fall 2016 (3 cr.)

ISEM 301: *Climate Change and You*, Fall 2017 (1 cr.)

FOR 504: *ST: Earth System Modeling*, Fall 2017 (1 cr)

FOR 504: *ST: DayCent Ecosystem Modeling*, Spring 2018 (3 credits)

Students Advised:

Undergraduate Students (research):

Dana Andres, University of Idaho, Ecology and Conservation Biology, thesis advisor, 2015 - 2016

Gabrielle Becker, University of Idaho, MURI Undergraduate Research advisor, Summer 2015

Kaylissa Beale, Lewis and Clark State College, MURI Undergraduate Research advisor, Summer 2015

Alexis Litty, University of Idaho, MURI Undergraduate Research advisor, 2015 - 2017

Jesus Gonzalez, University of Idaho, MURI Undergraduate Research advisor, 2015 - 2017

Andrew Piersall, University of Idaho, Ecology and Conservation Biology, thesis advisor, 2016 – 2017

Seth Parker, University of Idaho, Forestry, Undergraduate Research advisor, 2016 – present

Heather Crawford, University of Idaho, Ecology and Conservation Biology, thesis advisor 2018 - present

Graduate Students:

Current

Eric Walsh, PhD student, University of Idaho, major advisor, 2015- current

Jeffrey Stenzel, PhD student, University of Idaho, major advisor, 2017- current

Brandon McNellis, PhD student, University of Idaho, major advisor, 2016 – current

Danielle Berardi, PhD student, University of Idaho, major advisor, 2018 – current

Kristina Bartowitz, PhD student, University of Idaho, major advisor, 2017 – current

Katherine Baker, PhD student, University of Idaho, co-major advisor, 2016 – current

Megan Miller, PhD student, University of Idaho, committee member, 2017- current

Adrienne Marshall, PhD student, University of Idaho, committee member, 2017 - current

Nuria Lopez, PhD student, University of Idaho, committee member, 2016 - current

Completed

Jeffrey Stenzel, MS student, University of Idaho, major advisor, 2015 – 2016

Danielle Berardi, MS student, University of Idaho, major advisor, 2015 – 2017

Mark Clytus, MS student (non-thesis), University of Idaho, co-major advisor, 2016 – 2017

Adam John Raines, MS student (non-thesis), University of Idaho, major advisor, 2016 - 2018

Materials Developed:

Courses Developed:

GEOS 697: Interdisciplinary Modeling, June 2015 (3 cr.) (2 week co-taught intensive course at BSU)

FOR 529: Forest Ecosystem Analysis, Fall 2015 (3 cr.)

ISEM 301: Climate Change and You (1 cr.)

Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:

Workshop/Course Leader, 4-day NSF Forest-Climate Interactions High School Teacher Workshop/Course, June 2018, McCall, ID

Workshop/Course Leader, 4-day NSF Forest-Climate Interactions High School Teacher Workshop/Course, June 2017, McCall, ID

Invited seminar, University of Wisconsin, December 2017, "Fire, Drought, Beetles, and Humans: Quantifying the Impacts of Disturbance on the Forest Carbon Cycle"

Invited speaker, National Academy of Sciences, Terrestrial Carbon Panel, September 2017, "Forest Carbon Sequestration Strategies"

Invited speaker, Washington Environmental Council, Carbon Friendly Forestry, September 2017, "Oregon's Forest Carbon Balance: Potential Bioenergy Implications"

Invited seminar, Malcolm Renfrew Interdisciplinary Symposium, University of Idaho, April 2017, "Fire, Drought, Beetles, and Humans: Quantifying the Impacts of Forest Disturbance on the Carbon Cycle"

Invited lecture, Washington State University, Fall 2015, "Organisms and global change"

Invited lecture, University of Idaho, Spring 2015, 2016, Natural Resources 101

Invited seminar, "Ecosystem Measurements and Modeling from Minutes to Millennia", Washington State University Center for Environmental Research, Education, and Outreach. September, 2015

Invited seminar, "Automated tree (hugging) measurements to improve model prediction of forest carbon uptake. Palouse Ecology and Evolution Symposium", April 29th, 2015.

Invited lecture, University of Idaho, Spring 2015, Environmental Science and Policy

Invited speaker: "Bioenergy Landscapes of the Future", Olympia Science Café, Olympia, WA

Invited seminar: "Effects of climate, disturbance, and forest management on regional carbon storage and emissions under current and proposed policy plans", March 2012. Microsoft Research Conservation and Ecology Group, Cambridge University, Cambridge, UK

SCHOLARSHIP ACCOMPLISHMENTS:

Publications, Exhibitions, Performances, Recitals (* indicates mentored student or postdoc author):

Refereed/Adjudicated (Non-blind review; i.e. books, book chaps., journals, proc., abstr., etc.): --

Peer Reviewed/Evaluated (blind review; i.e. journals, articles, proceedings, abstracts, etc.):

Buotte, P.*, S. Levis, B. Law, T. Hudiburg, D. Rupp, P. Mote, and J. Kent*. Near-future forest vulnerability to drought and fire varies across the western US. *Global Change Biology* 25.1, 290-303 (2019). (<https://onlinelibrary.wiley.com/doi/full/10.1111/gcb.14490>)

Walsh, E. *, K. Vierling, E. Strand, K. Bartowitz*, and T. Hudiburg. Climate change, woodpeckers, and forests: Current trends and future modeling needs. *Ecology and Evolution* (2018), 00:1–15 (<https://doi.org/10.1002/ece3.4876>)

Law, B.E., T.W. Hudiburg, P. Buotte, L. Berner, J. Kent, and M. Harmon. Forest land use strategies to mitigate climate change in a carbon dense temperate region. *Proceedings National Academy of Sciences*, 115 (14) 3663-3668 (2018). (<http://www.pnas.org/content/115/14/3663>)

Gomez-Casanovas, N., DeLucia, N. J., **Hudiburg, T. W.**, Bernacchi, C. J., & DeLucia, E. H. Conversion of grazed pastures to energy cane as a biofuel feedstock alters the emission of GHGs from soils in Southeastern United States. *Biomass and Bioenergy*, 108, 312-322 (2018) (<https://www.sciencedirect.com/science/article/pii/S0961953417303951>)

Hudiburg, T.W., P.E. Higuera, and J.A. Hicke. Fire-regime variability impacts forest carbon dynamics for centuries to millennia. *Biogeosciences* 14 (17), 3873-3882 (2017). (<https://www.biogeosciences.net/14/3873/2017/>)

Khanna, M., W. Wang, **T.W. Hudiburg**, and E. H. DeLucia. Regulating indirect land use change due to biofuels: is it worth it? *Nature Communications* 8, 15513 (2017). (<http://www.nature.com/articles/ncomms15513>)

Carvalho, J. L.* , **T.W. Hudiburg**, Henrique C. J. Franco, and E.H. Delucia. Contribution of above- and belowground bioenergy crop residues to soil carbon. *Global Change Biology-Bioenergy* 9 (8), 1333-1343 (2017). (<http://dx.doi.org/10.1111/gcbb.12411>)

Berner, L.T.* , B.E. Law, and **T.W. Hudiburg**. Water availability limits tree productivity, carbon stocks, and carbon residence time in mature forests across the western United States. *Biogeosciences* 14 (2), 14 (2), 365-378 (2017). (<https://www.biogeosciences.net/14/365/2017/>)

Black, C.K* , S. C. Davis, **T.W. Hudiburg**, C. J. Bernacchi, and E.H. DeLucia. Elevated CO₂ and temperature increase soil C losses from a soy-maize ecosystem. *Global Change Biology* (Early View; 2016) (<http://onlinelibrary.wiley.com/doi/10.1111/gcb.13378/full>)

Hudiburg, T.W., W. Wang, M. Khanna, S. Long, W. Parton, P. Dwivedi, M. Hartmann, and E.H. DeLucia. Impacts of a 32-billion-gallon bioenergy landscape on land and fossil fuel use in the US. *Nature Energy* 1: 15005 (2016). (<http://www.nature.com/articles/nenergy20155>)

Gomez-Casanovas, N., **T.W. Hudiburg**, E.H. DeLucia, W. Parton, and C. Bernacchi. Current and future impacts of atmospheric nitrogen deposition on grassland GHG balance. *Global Change Biology* 22, 1348-1360 (2016). (<http://onlinelibrary.wiley.com/doi/10.1111/gcb.13187/pdf>)

P. Dwivedi, W. Wang, **T. Hudiburg**, M. Khanna, S. Long, E. DeLucia and W. Parton. Life-Cycle Carbon Intensity and Production Cost of Cellulosic Ethanol. *Environmental Science and Technology* 49 (4), 2512–2522 (2015). (<http://pubs.acs.org/doi/abs/10.1021/es5052588>)

Hudiburg, T.W., S.C Davis, W.J. Parton, and E.H. DeLucia. Bioenergy crop greenhouse gas mitigation potential under a range of management practices. *Global Change Biology-Bioenergy* 7 (2), 366-374 (2015). (<http://onlinelibrary.wiley.com/doi/10.1111/gcbb.12152/epdf>)

DeLucia, E.H., N. Gomez-Casanovas, J.A. Greenberg, **T.W. Hudiburg**, I.B. Kantola, S.P. Long, A.D. Miller, D.R. Ort, and W.J. Parton. Theoretical limit to plant productivity. *Environmental Science & Technology* 48 (16), 9471-9477 (2014). (<http://pubs.acs.org/doi/abs/10.1021/es502348e>)

Hudiburg, T.W., B.E. Law, S. Luyssaert, and P.E. Thornton. Interactive effects of environmental change and management strategies on regional forest carbon emissions. *Environmental Science and Technology* 47 (22), 13132–13140 (2013). (<http://pubs.acs.org/doi/abs/10.1021/es402903u>)

Hudiburg, T.W., B.E. Law, P.E. Thornton. Evaluation and improvement of the Community Land Model (CLM 4.0) in Oregon forests. *Biogeosciences* 10, 453-470 (2013). (<http://www.biogeosciences.net/10/453/2013/bg-10-453-2013.pdf>)

Anderson-Teixeira, K., A. Miller, J. Mohan, **T. Hudiburg**, B. Duval, and E.H. DeLucia. Dynamics of forest recovery under a changing climate. *Global Change Biology* 19 (7), 2001-2021 (2013). (<http://onlinelibrary.wiley.com/doi/10.1111/gcb.12194/epdf>)

Law, Beverly, **Tara Hudiburg**, and Sebastiaan Luyssaert. Thinning effects on forest productivity: consequences of preserving old forests and mitigating impacts of fire and drought. *Plant Ecology and Diversity* 6 (1), 73-85 (2013). (<http://www.tandfonline.com/doi/abs/10.1080/17550874.2012.679013>)

Hudiburg, Tara, Beverly Law, Christian Wirth, and Sebastiaan Luyssaert. Regional carbon dioxide implications of forest bioenergy production. *Nature Climate Change* 1, 419–423 (2011). (<http://www.nature.com/nclimate/journal/v1/n8/full/nclimate1264.html>)

Turner, D.P., Goeckede, M., Law, B.E., Ritts, W.D., Cohen, W.B., Yang, Z., **Hudiburg, T.**, Kennedy,

R., Duane, M., Multiple constraint analysis of regional land–surface carbon flux. *Tellus B* 63, 207–221. (2011) (<http://onlinelibrary.wiley.com/doi/10.1111/j.1600-0889.2011.00525.x/epdf>)

Duane, M.V., W.B. Cohen, J.L. Campbell, **T. Hudiburg**, D.P. Turner, D. Weyermann. Implications of alternative field-sampling designs on Landsat-based mapping of stand age and carbon stocks in Oregon forests. *Forest Science* 56(4): 405–416. (2010) (http://terraweb.forestry.oregonstate.edu/pubs/duane_2010.pdf)

Hudiburg, T.W., B. Law, D. P. Turner, J.L. Campbell, D. Donato, and M. Duane. Carbon dynamics of Oregon and northern California forests and potential land-based carbon storage. *Ecological Applications* (19) 163–180 (2009). (<http://www.esajournals.org/doi/pdf/10.1890/07-2006.1>).

Turner, D.P, W.D. Ritts, B.E. Law, W.B. Cohen, Z. Yang, **T. Hudiburg**, J.L. Campbell, M. Duane. Scaling net ecosystem production and net biome production over a heterogeneous region in the western United States. *Biogeosciences* 4, 597–612 (2007). (<http://www.biogeosciences.net/4/597/2007/>)

Popular Press Publications: ---

Other: (reports, proceedings, papers, citations and references, performances)

Refereed/Adjudicated (currently scheduled or submitted):

Peer Reviewed/Evaluated (currently scheduled or submitted):

Hudiburg, T.W., B.E. Law, J. Stenzel*, M. Harmon, and W. Moomaw. Meeting regional GHG reduction targets requires accounting for all forest sector emissions. Proceedings National Academy of Sciences (submitted).

Valade, Aude, Sylvain Caurla, Valentin Bellassen, Martina Mund, Miriam Buitrago, **Tara Hudiburg**, Kim Naudts, Sylvestre Njakou Djomo, and Sebastiaan Luyssaert. Understanding greenhouse gas substitution in the forest sector. *Nature Climate Change* (submitted).

Stenzel, J*, K. Bartowitz*, A. Smith, J. Lutz and **T. Hudiburg**. A ‘snag’ in fire emissions estimates. *Nature Climate Change* (submitted).

Walsh, E.* and **T. Hudiburg**. An integration framework for linking avifauna niche and forest landscape models. *PLOS ONE* (in review).

Presentations and Other Creative Activities: (i.e. slide sets, web pages, video productions, etc., provide date and location) ---

Professional Meeting Papers, Workshops, Showings, Recitals: (provide date and location)

First-author presentations / posters:

Hudiburg, T.W. (2018) Forest growth and mortality: carbon cycle impacts and mitigation opportunities. USDA Agricultural Congressional Research Exhibition, Washington D.C.

Hudiburg, T.W., J. Stenzel, B. McNellis, and D. Berardi. **(2016)** Measuring and modeling carbon balance in mountainous Northern Rocky mixed conifer forests. AGU 95, Fall Meeting, San Francisco, CA.

Hudiburg, T.W., N. Gomez-Casanovas, E.H. DeLucia, and C. Bernacchi. **(2014)** Current and Future Impacts of Atmospheric Nitrogen Deposition on Grassland GHG Balance. AGU 94, Fall Meeting, Abstract BG21H-0162

Hudiburg, T.W., W. Wang, M. Khanna, S. Long, W. Parton, M. Hartmann, P. Dwivedi, and E.H. DeLucia. **(2014)** Environmental impact of bioenergy landscapes in the United States. 20th World Congress of Soil Science. June 8 – 13th, 2014. Jeju, South Korea

Hudiburg, T.W., P. Dwivedi, W. Wang, M. Khanna, W. Parton, M. Hartmann, S. Long and E.H. DeLucia. (2013) Integrated regional modeling assessment of the environmental and economic potential of perennial grass bioenergy feedstocks. AGU 93, Fall Meeting, Abstract GC43A-1033 (poster)

Hudiburg, T.W. and E.H. DeLucia. (2013) Bioenergy landscapes of the future. Energy Biosciences Retreat. July 15 – 18. Champaign, Il. (Invited oral presentation)

Hudiburg, T.W., S. Davis, W.J. Parton, K. Anderson-Teixeira, C. Smith, E. DeLucia. Reducing uncertainty of bioenergy crop carbon sequestration strategies using observations from field sites across the central and eastern United States and the DayCent biogeochemical model. 4th NACP Investigators Meeting, Feb. 4-7, 2013. Albuquerque, NM. (poster)

Hudiburg, Tara, Beverly Law, Sebastiaan Luyssaert, and Peter Thornton. (2012) Forest carbon response to management scenarios intended to mitigate GHG emissions and reduce fire impacts in the US West Coast region. AGU 92, Fall Meeting, Abstract B32C, (Invited oral presentation)

Hudiburg, Tara, Beverly Law, and Peter Thornton. (2012) Interactive effects of changing climate, increasing atmospheric CO₂, nitrogen deposition and disturbance on carbon and nitrogen dynamics in Oregon forests. AGU 92, Fall Meeting, Abstract B53B (poster)

Hudiburg, Tara, Beverly Law, Sebastiaan Luyssaert, and Peter Thornton. Effects of climate, disturbance, and forest management on regional carbon storage and emissions under current and proposed policy plans. March 2012. Microsoft Research Conservation and Ecology Group, Cambridge University, Cambridge, UK (invited seminar)

Hudiburg, Tara, Beverly Law, Christian Wirth, Sebastiaan Luyssaert, and Peter Thornton. (2011) Short and Long Term Impacts of Forest Bioenergy Production on Atmospheric Carbon Dioxide Emissions. Eos Trans. AGU 91. Fall Meet. Suppl., Abstract GC21E-04 (oral presentation)

Hudiburg, Tara, Beverly Law, Christian Wirth, and Sebastiaan Luyssaert. Life-cycle analysis of US West Coast forests following thinning for combined fire prevention and bioenergy production. North American Carbon Program Meeting, February 2011, New Orleans, LA. (poster)

Hudiburg, Tara, Beverly Law, Jon Martin. (2009) An evaluation of the impact of forest biomass harvest for biofuels on carbon storage in the US west coast states under different management scenarios. Eos Trans. AGU 90(52), Fall Meet. Suppl., Abstract B52C-06 (oral presentation)

Student/poster/collaborator posters and presentations (* indicates mentored student or postdoc):

Berardi, D*, A.C. von Haden, W.H. Wang, E.H. DeLucia, and T.W. Hudiburg. (2018) Corn Belt Bioenergy Crops: Perennial Grass Potential for Additional Greenhouse Gas Abatement Compared to Corn Given Increased Frequency of Seasonal Flooding Events. AGU 100, Fall Meeting, Abstract B33E-2713. Poster.

J. Stenzel*, T.Hudiburg, D. Berardi, B. McNellis, and E. Walsh. (2017) GC24G-08 Integrated model-experimental framework to assess carbon cycle components in disturbed mountainous terrain. AGU 96, Fall Meeting, New Orleans, LA.

P. Buotte, B. Law, and T. Hudiburg. (2017; invited) B51B-1800 Forecasting Vulnerability to Drought-related Mortality in Western US Forests. AGU 96, Fall Meeting, New Orleans, LA.

B. Law, C. Still, T. Hudiburg, P. Buotte, and C. Hanson. (2017) GC24G-04 Advances in Estimating Current and Future Effects of Climate and Management on Forest Ecosystem Carbon and Water Dynamics at Multiple Scales. AGU 96, Fall Meeting, New Orleans, LA.

D. Berardi*, N. Gomez-Casanovas and T. Hudiburg. (2017) B23H-08 Reducing uncertainty in the DayCent model of heterotrophic respiration with a more mechanistic representation of microbial

processes. AGU 96, Fall Meeting, New Orleans, LA.

E. Walsh* and T. Hudiburg. (2017) B53D-1977 The Big Burn: C Emissions from the Northern Rockies 1910 Fires. AGU 96, Fall Meeting, New Orleans, LA. (poster)

E. Blanc-Bates*, T. Hudiburg, M. Khanna, and E. DeLucia. (2017) B53D-1985 Environmental impact of converting Conservation Reserve Program land to perennial bioenergy crops in Illinois. AGU 96, Fall Meeting, New Orleans, LA. (poster)

B. McNellis* and T. Hudiburg. (2017) B53D-1979 Improving Predictions of Tree Drought Mortality in the Community Land Model Using Hydraulic Physiology Theory and its Effects on Carbon Metabolism. AGU 96, Fall Meeting, New Orleans, LA. (poster)

B. McNellis* and T. Hudiburg. (2017) Predicting forest mortality and landscape change under novel climates using an analytical approach to drought response physiology and probabilistic scaling. Spring Western Sectional Meeting #1128, American Mathematical Society, Pullman, WA.

E. Walsh* and T. Hudiburg. (2017) Future Carbon Dynamics of the Northern Rockies Ecoregion due to Climate Impacts and Fire Effects. Spring Western Sectional Meeting #1128, American Mathematical Society, Pullman, WA.

E. Walsh, K. Vierling, and T. Hudiburg. (2016) Future Carbon Dynamics of the Northern Rockies Ecoregion due to Climate Impacts and Fire Effects. Abstract # B51J-08, AGU 95, Fall Meeting, San Francisco, CA.

J. Stenzel, D. Berardi, and T. Hudiburg. (2016) Automated Monitoring of Carbon Fluxes in a Northern Rocky Mountain Forest Indicates Above-Average Net Primary Productivity During the 2015 Western U.S. Drought. Abstract # B53A-0517, AGU 95, Fall Meeting, San Francisco, CA.

K. Beale*, G. Becker*, D. Berardi, and T. Hudiburg. Belowground Carbon Allocation in a Mixed Conifer Forest in the Northern Rockies. Idaho Conference of Undergraduate Research. July, 2015, Boise, ID. (poster; undergraduate students)

E. Walsh* and T. Hudiburg. Linking climate impacts with avian cavity nester viability: predicting long term habitat suitability across multiple ecological scales. Northwest Climate Conference. November 3-5th, 2015. (poster)

J. Stenzel*, D. Berardi*, and T. Hudiburg. Biogeochemical impacts of drought on Idaho forest ecosystems: can we resolve species level differences with high resolution measurements? Northwest Climate Conference. November 3-5th, 2015, Coeur D'Alene, ID. (poster)

Patents: ---

Grants and Contracts Awarded (totals reflect the amount award to PI Hudiburg)

- 2017 - 2022 Co-PI: DOE BRC, CABBI: Center for Advanced Bioenergy and Bioproducts Innovation. E. Delucia, T. Hudiburg, plus 60 other PIs. **\$759,072**
- 2017 - 2021 Co-PI (UI PI): T. Hudiburg. NSF DEB Ecosystem Sciences, Collaborative Research: Causes and consequences of Rocky Mountain Fire Regime Variability. P. Higuera (PI), B. Shuman (Co-PI), K. McLaughlin. **\$194,238**
- 2016 - 2021 PI: Tara Hudiburg NSF CAREER DEB Ecosystem Sciences, Forest-atmosphere interactions in an era of fire and drought (and doubt). **\$664,235**
- 2014 - 2018 Senior Personnel: T Hudiburg USDA NIFA, EaSM2: Forest die-off, climate change, and human intervention in Western North America. P. Mote et al., **\$141,598**
- 2017 - 2018 Co-PI: Tara Hudiburg USDA-NIFA Sun Grant, Achieving Conservation and Renewable Energy Goals with the Conservation Reserve Program. M. Khanna (PI), E. DeLucia (Co-PI). **\$150,000** (\$19,000 to T. Hudiburg as a consultant fee).

- 2015 – 2016 PI: Tara Hudiburg, NASA ISGC Seed Grant, Exploratory analysis of drought impacts on forest ecosystem respiration. T. Hudiburg (PI), **\$40,000**
- 2009 - 2012 PI: Tara Hudiburg. DOE Global Change Graduate Fellowship; **\$150,000**
- 2007 - 2008 PI: Tara Hudiburg, Microsoft E-Science Grant, Development of the AmeriFlux Relational Database, Co-PIs: Mathias Goeckede, Bev Law. **\$25,000**

Honors and Awards:

- 2018 NSF PECASE Award nominee (pending presidential action)
- 2016 NSF Early CAREER Award
- 2016 Outstanding Faculty Research Award, College of Natural Resources, University of Idaho
- 2012 Awarded student travel grant to attend DOE model-data integration workshop
- 2011 NACP meeting student travel award
- 2010 Microsoft Graduate Internship
- 2009 OSU COF graduate fellowship
- 2009 OSU Dept. of Forest Science Henry and Mildred Fowells Fellowship
- 2008 NACP meeting student travel award
- 2008 Visiting Graduate Student Scholar at National Center for Atmospheric Research
- 2008 Oregon Laurels Scholarship
- 2007 OSU Dept. of Forest Science Henry and Mildred Fowells Fellowship
- 2006 OSU COF graduate fellowship
- 2005 Oregon Laurels Scholarship
- 2005 Visiting Graduate Student Scholar at National Center for Atmospheric Research
- 1997 MJ Murdock Undergraduate Research Grant recipient

Postdoctoral Researchers, and Visiting Scientists advised:

Postdoctoral Researchers:

Jeffrey Kent, University of Idaho, postdoc advisor, June 2017 – present

Visiting Scientists:

Elena Blanc-Bates, University of Illinois, visiting postdoc, Summer 2017, 2018

Nuria Gomez-Casanovas, University of Illinois, visiting postdoc, Summer 2016

SERVICE:

Major Committee assignments:

University, departmental and college:

- 2018 Dean of College of Natural Resources, search committee member
- 2018 Vice Provost for Faculty, search committee member
- 2016 - University Curriculum Committee, College of Natural Resources delegate (elected)
- 2016 Dept. Head of Forest, Rangeland, and Fire Sciences, search committee member
- 2014 Faculty search committee member for UI Dept. Forest, Rangeland, and Fire Sciences (2)
- 2014 - Curriculum Committee member, Ecology & Conservation Biology and Forestry

National:

- 2018 National Academies report on Developing a Research Agenda for Carbon Dioxide Removal and Reliable Sequestration, reviewer
- 2018 State of the Carbon Cycle Report, multi-agency (USDA, NASA, DOE), review editor (SOCCR2)
- 2017 NASA ROSES C Cycle Science (panelist), NSF PREEVENTS Fire (panelist), Purdue Postdoctoral Fellowship (2017), NSF Geography (ad hoc reviewer)
- 2016 NSF DEB Ecosystems (panelist), NASA ROSES C Cycle Science (panelist), Joint Fire Science Program (panelist), USDA NIFA BNRE (panelist)
- 2012 USGS Western Region Carbon Report, reviewer

International:

- 2017 Wood Product Substitution Working Group, Pierre and Marie Curie University, Paris, France, invited participant

Professional and Scholarly Organizations

Memberships:

- 2005- American Geophysical Union
 2008- Ecological Society of America
 2010- European Geophysical Union

Editorial (peer-reviewed journals):

- 2014 - Global Change Biology Bioenergy Editorial Advisory board (2014 – present), 5.4 impact factor

Peer Reviewer for:

Nature Climate Change, Global Change Biology, GCB- Bioenergy, Journal of Ecology, Science of the Total Environment, Carbon Management, Remote Sensing and Environment, Environmental Science and Technology, Forest Ecology and Management, Carbon Balance and Management, Journal of Geophysical Research-Biogeosciences, Ecological Applications, PLOS ONE, Biogeosciences, Forests, Geoderma, and Oecologia

Outreach Service:

- 2017 Organized a 2-day symposia for Rep. Bob Inglis (R-SC) to meet with students, faculty and give a keynote address “Solving Climate Change with Conservative Principles”, Moscow, ID
 2017 Session Chair and Convener, Biogeosciences Section, AGU Fall Meeting, New Orleans, LA
 2017 Idaho Master Forest Stewards Meeting, ~30 forest stewards, gave lecture (outside) on “Mitigating Climate Change - How Forests Store Carbon”, Pitkin Nursery, Moscow, ID
 2016 Session Chair and Convener, "Alteration of Disturbance-Driven Forest Dynamics under a Changing Climate", AGU Fall Meeting, San Francisco, CA
 2015 Session Chair and Convener, “Forest disturbance and climate impacts: Measuring and Modeling from Minutes to Millennia”, AGU Fall Meeting, San Francisco, CA
 2015 Session Convener, Northwest Climate Conferences, Couer D’Alene, ID, “Ecological Impacts”
 2015 Speaker, UI Experimental Forest Field Day, Moscow, ID
 2014 Invited Panel Participant, Earth Science Women’s Network workshop "Getting on the Tenure Track and Succeeding" (AGU Fall Meeting, San Francisco, CA)
 2014 Volunteer Judge, AGU Fall Meeting Outstanding Student Presentation Award
 2013 Volunteer Judge, AGU Fall Meeting Outstanding Student Presentation Award
 2012 Volunteer Judge, AGU Fall Meeting Outstanding Student Presentation Award

Interviews and Press Releases:

Fisher, S. (June 2018) Interview with Idaho Business Review. Grant aids University of Idaho biofuel program (<https://idahobusinessreview.com/2018/06/01/grant-aids-university-of-idaho-biofuel-program/>)

Cooper, L. (January 2018) U. Idaho Press Release: Land Use Changes May Help Oregon Mitigate Climate Change, Study Indicates (picked up by several press outlets in Oregon) <http://www.ktvz.com/news/osu-study-carbon-benefits-in-forest-management-change/719904506>

Collins, N. (January 2016) Article written by Pacific Standard Magazine. New Biofuels Could Cut Emissions and Preserve Land Used to Grow Food. <https://psmag.com/new-biofuels-could-cut-emissions-and-preserve-land-used-to-grow-food-e4a6dd6c2d51#.kpmfkbvcv>

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Barnard, J. (Feb. 2013) Phone interview with Dr. Tara Hudiburg for Associated Press and US News. Report: Warming bringing big changes to forests. (<http://www.usnews.com/science/news/articles/2013/02/05/report-warming-bringing-big-changes-to-forests>)

Templeton, A. (Oct. 2011). Radio interview with Tara Hudiburg for Oregon Public Broadcasting, an NPR member station. OSU Study: Woody Biomass Not a Good Substitute For Fossil Fuels. (<http://earthfix.opb.org/energy/article/thining-nw-forests-for-biofuel-increases-carbon-em/>)

Boxall B. (Oct. 2011) Phone interview with Tara Hudiburg for LA Times. Forest biofuel projects could increase West Coast carbon emissions. (<http://latimesblogs.latimes.com/greenspace/carbon-emissions/page/3/>)

Stauth, D. (Oct. 2011) Oregon State University Press Release. Report: Production of biofuel from forests will increase greenhouse emissions. (picked up by EurekAlert!, ScienceDaily, First Science, The Oregonian, Conservation Magazine, Seattle Times and others)

Community Service:

2016 PBS Science Trek Forestry Episode

PROFESSIONAL DEVELOPMENT: (workshops and seminars attended)

Teaching:

2012-2014 Informal Early Feedback, Flipping the Classroom, Active Learning, Classroom Assessment Techniques, Writing Exam Questions in Math and Science (University of Illinois Center for Teaching and Learning)

Scholarship:

2018 Data-discovery for FEW nexus workshop, SESYNC, University of Maryland, Invited participant
 2017 Invited participant and speaker, NSF NOVUS IV RCN Workshop, Hubbard Brook, New Hampshire
 2017 Invited participant for paper synthesis, Wood Product Substitution Working Group, Pierre and Marie Curie University, Paris, France
 2015 Participant, 20th Annual CESH workshop
 2014 Invited participant, NSF Novus RCN Workshop “Scaling biogeochemical interactions with disturbance events, multiple disturbance agents, and disturbance regimes” (Estes Park, CO)
 2013 Participant, 18th Annual CESH workshop
 2013 North Central Regional Sun Grant Center Annual Meeting participant (Chicago, IL)
 2012 National Sun Grant Meeting participant (New Orleans, LA)
 2012 Strategies to promote integrated experiment-model approaches to terrestrial ecosystem study (DOE, Washington DC)
 2011 AGU Fall Meeting Communicating Science Skills Workshop

Outreach: --

Administration/Management: --