

Jesse L Morris
University of Utah
Salt Lake City, UT 84112
Tel: +1 (801) 585-7156
e-mail: jesse.morris@utah.edu

INTERESTS

Biogeography, biogeochemistry, social-ecological systems, forest disturbances, bark beetles

POSITIONS

Grant Specialist (2018 – present)

Office of the Vice President for Research, University of Utah, Salt Lake City, Utah

Research Assistant Professor (2015 – present)

Department of Geography, University of Utah, Salt Lake City, Utah

Teaching Faculty (2016 – 2018)

Department of Geography, Weber State University, Ogden, Utah

EDUCATION

2015 **Post-Doctoral**

Department of Forest and Fire Sciences, University of Idaho, Moscow, Idaho
Department of Geography, Kansas State University, Manhattan, Kansas

2013 **Post-Doctoral**

Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland

2011 **PhD**

Department of Geography, University of Utah, Salt Lake City, Utah

2008 **MS**

Department of Geography, University of Utah, Salt Lake City, Utah

2002 **BA** (*magna cum laude*)

Department of Geography, University of South Carolina, Columbia, South Carolina

CERTIFICATIONS

Medical Writer and Editor, Graham School of Professional Studies, University of Chicago, Illinois, August 2020.

Expert Witness Training Academy of the National Science Foundation. Mitchell-Hamline School of Law, St. Paul, Minnesota, July 2017.

PEER REVIEWED PAPERS

2021

Routson CC, Kaufman DS, McKay NP, Erb MP, Arcusa SH, Brown KJ, Kirby ME, Marsicek JP, Anderson RS, Jiménez-Moreno G, Rodysill JR, Lachniet MS, Fritz SC, Bennet JR, Goman MF, Metcalfe SE, Galloway JM, Schoups G, Wahl DB, **Morris JL**, Staines-Urias F, Dawson A, Shuman BN, Gavin DG. A multiproxy database of western North American Holocene paleoclimate records. *Earth System Science Data* <https://doi.org/10.5194/essd-2020-215>

2020

Cottrell S, Mattor K, **Morris JL**, McGrady P, Fettig CJ, Maguire D, James P, Clear J, Wurtzebach Z, Wei Y, Brunelle AR, Western J, Maxwell R, Rotar M, Roberts R. Adaptive capacity for the resilience of social-ecological systems: A conceptual model for ecological disturbance applications. *Sustainability Science* <https://doi.org/10.1007/s11625-019-00736-2>

2019

Morris JL, DeRose RJ, Brussel T, Brewer S, Brunelle AR, Long JN. Stable or seral? Fire-driven alternative states in quaking aspen (*Populus tremuloides*) forests of western North America. *Biology Letters* <https://doi.org/10.1098/rsbl.2019.0011>

Buma B, Harvey BJ, Gavin DG, Kelly R, Loboda T, McNeil BE, Marlon JR, Meddens AJH, **Morris JL**, Raffa KF, Shuman B, Smithwick EAH, McLauchlan KK. The value of linking paleoecological and neocological perspectives to understand spatially-explicit ecosystem resilience. *Landscape Ecology* 34: 17–33.

2018

Morris JL, Cottrell SP, Fettig CJ, Hansen WD, Sherriff R, Carter VA, Clear JL, Clement JM, DeRose RJ, Higuera PE, Hicke JA, Mattor K, Seddon AWR, Seppä H, Stednick J, Seybold SJ. Bark beetles as agents of change in social-ecological systems. *Frontiers in Ecology and the Environment* 16: 1–10. **Recognized by Wiley as top cited paper in 2018 and 2019**

Rull V, Montoya E, Giesecke T, **Morris JL**. Palynology and vegetation history. *Frontiers in Earth Science* 6: 186–189.

Carter VA, Power MJ, Lundeen Z, **Morris JL**, Petersen KL, Brunelle A, Anderson RS, Shinker JJ, Koll R, Turney L, Bartlein P. Regional synthesis of fire activity along latitudinal and elevational gradients in the U.S. Rocky Mountains during the last 1500 years. *Quaternary International* 488: 107–119.

2017

Morris JL, Cottrell SP, Fettig CJ, Hansen WD, Sherriff R, Carter VA, Clear JL, Clement JM, DeRose RJ, Higuera PE, Hicke JA, Mattor K, Seddon AWR, Seppä H, Stednick J, Seybold SJ. Bark beetle impacts on social-ecological systems: Priority questions to inspire future research. *Journal of Applied Ecology* 54: 750–760.

Morris JL, Higuera PE, Haberle S, Whitlock C. Modern pollen from small hollows reflects *Athrotaxis cupressoides* density across a wildfire gradient in subalpine forests of the Central Plateau, Tasmania, Australia. *The Holocene* 27: 1781–1788

2016

Kranabetter JM, McLauchlan KK, Enders S, Fraterrigo J, Higuera PE, **Morris JL**, Rastetter E, Barnes R, Buma B, Gavin DG, Gerhart L, Gillson L, Hietz P, Mack MC, McNeil B, Perakis SS. A framework to assess biogeochemical responses to ecosystem disturbance using nutrient partitioning ratios. *Ecosystems* 19: 378–395.

2015

Morris JL, McLauchlan KK, Higuera PE. Sensitivity and complacency of sedimentary biogeochemical records to landscape disturbances. *Earth-Science Reviews* 148: 121–133.

Morris JL, DeRose RJ, Brunelle AR. Long-term perspectives on landscape change from a subalpine forest in central Utah, USA. *Forest Ecosystems* 2: 1–12.

Morris JL, Väiliranta M, Sillasoo Ü, Tuittila ES, Korhola A. Re-evaluation of Late Holocene fire histories from three boreal bogs suggest a linkage between bog fires and climate. *Boreas* 44: 60–67.

Morris JL, Courtney-Mustaphi CJ, Carter VA, Watt J, Derr K, Pisaric MFJ, Anderson RS, Brunelle AR. Do bark beetle remains in lake sediments correspond to severe outbreaks? A review of published and ongoing work. *Quaternary International* 378: 74–86.

2014

Morris JL, Mueller JR, Nurse A, Long CJ, McLauchlan KK. Holocene fire regimes, vegetation, and biogeochemistry of an ecotone site in the Great Lakes Region of North America. *Journal of Vegetation Science* 25: 1450–464.

Seddon AWR, MacKay AW, Baker AG, Birks HJB, Breman E, Buck CE, Ellis EC, Froyd CA, Gill J, Gillson L, Johnson EA, Jones VJ, Juggins S, Macias-Fauria M, Mills K, **Morris JL**, Noguès-Bravo S, Punyasena SW, Roland TP, Tanentzap AJ, KJ Willis, & the Palaeo50 Working Group. Looking forward through the past: Identification of fifty priority research questions in palaeoecology. *Journal of Ecology* 102: 256–267.

McLauchlan KK, Higuera PE, Gavin DG, Perakis SS, Mack MC, Alexander H, Battles J, Biondi F, Buma B, Colombaroli D, Enders S, Engstrom D, Hu FS, Marlon JR, Marshall J, McGlone M, **Morris JL**, Nave LE, Shuman BN, Smithwick E, Urrego DH, Wardle DA, Williams CJ, Williams JJ. Reconstructing disturbances and their biogeochemical consequences over multiple timescales. *BioScience* 64: 105–116.

2013

Morris JL, le Roux PC, Macharia AN, Brunelle AR, Hebertson EG, Lundeen Z. Organic, elemental, and geochemical contributions to lake sediment deposits during severe spruce beetle disturbances. *Forest Ecology and Management* 289: 78–89.

Morris JL, Brunelle AR, DeRose RJ, Seppä H, Power MJ, Carter VA, Bares R. Using quantitative fire regime zones on a high-resolution lake sediment record from western North America. *Quaternary Research* 79: 24–36.

Morris JL, Brunelle AR, Munson AS, Spencer J, Power MJ. Holocene vegetation and disturbance reconstructions from the Aquarius Plateau, Utah, USA. *Quaternary International* 310: 111–123.

Morris JL. Using lake sediment records to reconstruct bark beetle disturbances in western North America. *Frontiers of Biogeography* 5: 219–226.

Fang K, **Morris JL**, Solonen JS, Miller PA, Renssen H, Sykes MT, Seppä H. Comparison of proxy reconstructions and model simulations of Arctic treeline dynamics in Fennoscandia and European Russia. *Journal of Quaternary Science* 28: 595–604.

2012

Morris JL, Brunelle AR. Pollen accumulation in lake sediments during historic spruce beetle disturbances in subalpine forests of southern Utah, USA. *The Holocene* 22: 961–974.

Davis BAS, Kaplan JO, Giesecke T, Seppä H, Brewer S, **Morris JL**, et al. The European modern pollen database project. *Vegetation History and Archaeobotany* 22: 521–530.

2010

Morris JL, Brunelle AR, Munson AS. Pollen evidence of late Holocene disturbance on the Wasatch Plateau, Utah, USA. *Western North American Naturalist* 70: 175–188.

REPORTS AND OTHER PUBLICATIONS

2018

Morris JL, Clear JL, Chiverrel R, DeRose RJ, Drobyshev I. Identifying data gaps and potential synergies in forest dynamics research. *Past Global Changes Newsletter* 26: 2.

Hamilton R, Bruell R, Marcicz K, Slowinski M, Asena Q, Brussel T, **Morris JL**. Assessing the links among resilience, disturbance and functional traits in paleoecological datasets. *Past Global Changes Newsletter* 26: 2.

Malesky DM, Bentz BJ, Brown GR, Brunelle AR, Buffington JM, Chappell LM, DeRose RJ, Guyon JC, Jorgensen CL, Loehman RA, Lowrey LL, Lynch AM, Matyjasik M, McMillin JD, Javier E, Mercado JE, **Morris JL**, Negrón JF, Padgett WG, Progar RA, Randall CB in Halofsky JE, Peterson DL, Ho JJ, Little NJ, Joyce LA (eds.). Climate Change Vulnerability and Adaptation in the Intermountain Region. Gen. Tech. Rep. RMRS-GTR-375. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.

2017

Morris JL, DeRose RJ, Long JN. A long-term perspective on aspen-climate-fire dynamics in southern Utah. Report submitted to the *Cedar Mountain Initiative*, State of Utah.

2016

Morris JL. Managing bark beetle impacts on ecosystems and society. *Mountain Research Initiative*, <http://www.blogs-mri.org/>.

Seddon AWR, Cole L, **Morris JL**, Fletcher MS, Willis K. Measuring ecosystem resilience in the paleoecological record. *Past Global Changes Newsletter* 24: 3.

Clear J, Chiverrel R, DeRose RJ, Drobyshev I, **Morris JL**, Svoboda M. Introducing a new Forest Dynamics Working Group. *Past Global Changes Newsletter* 24: 1.

2015

Morris JL, Cottrell S, Mattor K, Hansen W, Seddon AWR, Seppä H, Clear JL. Social-ecological dimensions of forest insect disturbances: Past, present, and future. *Past Global Changes Newsletter* 23: 4.

2012

Williams JJ, **Morris JL**, Perakis SS. Reconstructing the biogeochemical consequences of disturbance. *Eos, Transactions of the American Geophysical Union* 93: 476.

GRANTS

Funded

University of Utah Seed Grant. Genetic diversity in ancient aspen clones. Brunelle AR, PI, **Morris JL**, co-PI. 2017.

Cedar Mountain Initiative. Long-term wildfire and biogeochemical linkages in stable aspen communities in southwestern Utah. **Morris JL**, PI. 2015–2017.

Past Global Changes. Working Group Initiative: Resilience in the paleorecord. Seddon AWR, PI, Cole L, Fletcher MS, **Morris JL**, Willis K, co-PIs. 2016–2019.

Past Global Changes. Working Group Initiative: Linking tree-ring and lake sediment records. Clear JL, PI, Chiverrel RC, Drobyshev I, DeRose RJ, **Morris JL**, Svoboda M, co-PIs. 2016–2019.

Mountain Social-Ecological Observatory Network. Human-environmental dimensions of bark beetle outbreaks in the Northern Rocky Mountains. **Morris JL**, PI. 2014.

Past Global Changes Workshop Award. Human-environmental dimensions of bark beetle outbreaks in the Northern Rocky Mountains. **Morris JL**, PI. 2014.

Chancellor's Science Grant, University of Helsinki. Climate-fire linkages in boreal peatland systems. **Morris JL**, PI. 2012.

Geological Society of America Dissertation Research Award. Quantifying the biogeochemical outcomes of bark beetle outbreaks. **Morris JL**, PI. 2011.

Association of America Geographers. Examining the biogeochemical consequences of severe bark beetle disturbances. **Morris JL**, PI. 2011.

National Academy of Sciences, USA. International Travel Fellowship. **Morris JL**. 2011.

National Science Foundation. International Travel Fellowship. **Morris JL**. 2011.

National Science Foundation Doctoral Dissertation Improvement Grant. Determining the long-term ecological implications of high severity spruce beetle disturbances. **Morris JL**, PI, Brunelle, AR, co-PI. 2010–2012.

SERVICE

Editorial

Associate Editor for *Frontiers in Earth Science* special issue on palynology to commemorate Lennart von Post. 2016–2018.

Journal Article Reviews

American Midland Naturalist; Arctic, Antarctic, and Alpine Research; BMC Ecology; Climate of the Past; Environmental Science and Policy; Ecology Letters; Forest Ecology and Management; Forests; Frontiers of Biogeography; Frontiers in Plant Science; Frontiers in Earth Science; Frontiers in Ecology and the Environment; Geoinformatics and Geostatistics; Geoscience; Global and Planetary Change; Journal of Arid Environments; Journal of Biogeography; Journal of Ecology; Journal of Environmental Management; Journal of Forestry; Journal of Paleolimnology; Land; Quaternary International; Quaternary Research; Quaternary Science Reviews; Regional Environmental Change; Rocky Mountain Geology; Sustainability; The Holocene; Vegetation History and Archaeobotany; Water

Leadership

Salt Lake County Schools Science Fair Judge. Salt Lake City, Utah. 2015–2019.

Organizer, oral presentation session, Western Forest Insect Work Conference in Santa Fe, New Mexico. 2015.

Judge, graduate student poster contest, College of Natural Resources, University of Idaho, Moscow, Idaho. 2015.

Organizer, contributed paper sessions, The 6th Meeting of the International Biogeography Society, Miami, Florida. 2013.

Judge, Buell and Braun awards, The 98th Meeting of the Ecological Society of America, Minneapolis, Minnesota. 2013.

Organizer for contributed paper sessions at the meetings of the Association of American Geographers in New York City, New York. 2011.

Organizer for contributed paper sessions at the meetings of the Association of American Geographers in Seattle, Washington. 2010.

NETWORKS

Working Group Management

Steering Committee Member. Forest Dynamics. Past Global Changes. 2016–2019.

Steering Committee Member. Ecosystem Resilience in the Paleorecord. Past Global Changes. 2016–2019.

Group Leader. Mountain Social-Ecological Observatory Research Coordination Network. National Science Foundation. 2014–2016.

Steering Committee Member. Novus Research Coordination Network. National Science Foundation. 2013–2015.

Group Leader. Palaeo50 Workshop. Natural Environment Research Council of the United Kingdom. 2012.

Workshops

2018

Organizer, Plant Traits in the paleo-record. EcoRe3 PAGES Working Group. Natural History Museum of Utah, Salt Lake City, UT. May 8–10.

Organizer, Materials Research Science and Engineering Center grant writing workshop. University of Utah, Salt Lake City. December 18.

2017

Invited Participant, Expert Witness Training Academy funded by the National Science Foundation. Mitchell-Hamline School of Law, St. Paul, Minnesota.

Invited Participant, Novus IV: Biogeochemical cycling in hardwood forests. Hubbard Brook, New Hampshire.

Invited Participant, Quantitative approaches to identify resilience in the paleorecord. University of Bergen, Fense, Norway.

Invited Participant, Forest disturbances in conifer systems. Liverpool Hope University, Liverpool, United Kingdom.

2016

Invited Participant, Paleo-resilience in the fossil record. University of Bergen, Fense, Norway.

2015

Organizer, Beetlemania workshop: Human-ecological dimensions of bark beetle outbreaks. Santa Fe, New Mexico.

Organizer, Wildfire PIRE writing workshop. Kioloa Field Station, New South Wales, Australia.

2014

Invited Participant, Grassroots science networks, Cary Institute for Ecosystem Studies, Millbrook, New York.

Invited Participant, MtnSEON Workshop: Application of social-ecological systems to real world problems. Coeur d'Alene, Idaho.

Invited Participant, Novus II workshop: Subalpine ecosystem disturbances and biogeochemical consequences. Estes Park, Colorado.

2013

Participant, Stable light isotopes and paleoenvironments. Kansas State University, Manhattan, Kansas.

Participant, Botany of Tasmania's National Parks. University of Tasmania, Hobart, Australia.

Invited Participant, Novus I workshop: Nutrient responses to ecosystem disturbances from annual to multi-millennial timescales. HJ Andrews Biological Station, Blue River, Oregon.

2012

Invited Participant, PROBE workshop: Paleo reconstructions of biogeochemical environments. Kansas State University, Manhattan, Kansas.

2011

Invited Participant, European modern pollen database workshop. École Polytechnique Fédérale de Lausanne, Switzerland.

INVITED RESEARCH TALKS

2019

Morris JL. Long-term records of environmental change in the Colorado Plateau. Utah State University, Logan, Utah.

Morris JL. The roof is on fire: Infernos and insects in Utah's upland forests. Weber State University, Ogden, Utah.

Morris JL. The impacts of landscape disturbances on social-ecological systems. Utah State University, Logan, Utah.

2018

Morris JL. Carbon biomass as metric for assessing the impacts of spruce beetle across spatial and temporal scales. Western Forest Insect Work Conference, Denver, Colorado.

Morris JL. Bark beetles as agents of change in coupled social-ecological systems. Western Forest Insect Work Conference, Denver, Colorado.

Morris JL. Navigating science from one continent to the next. University of Utah Postdoc Association. Salt Lake City, Utah.

2016

Morris JL. Yesterday is here: How reconstructing past environments prepares us for future climate change. Utah Valley University, Orem, Utah.

2015

Morris JL. Assessing biogeochemical change from lake sediments. Geological Society of America meeting, Baltimore, Maryland.

2014

Morris JL. The importance of long-term ecological records in understanding environmental change and land-use patterns. University of Georgia, Athens, Georgia.

Morris JL. Understanding environmental change: The importance of long-term ecological records for land management. San Francisco State University, San Francisco, California.

Morris JL. Relationships among humans, climate, and landscape disturbances in the Colorado Plateau. Climate Change Seminar Series, University of Idaho, Moscow, Idaho.

2013

Morris JL. Long-term vegetation and disturbance trends in the subalpine ecosystems of southern Utah. Restoring the West Conference, Utah State University, Logan, Utah.

2012

Morris JL. Using high-resolution lake sediment records to infer past disturbance regimes and severity. BIOCOLD II Workshop in Vilnius, Lithuania.

Morris JL. Forests in a changing world: Perspectives from the past, present, and future. United States Embassy, Helsinki, Finland. Office of the United States Ambassador, Consulate Oreck.

2011

Morris JL. Long-term record of spruce beetles, wildfire, and vegetation from the Wasatch Plateau, Utah, USA. North American Forest Insect Work Conference in Portland, Oregon.

CONTRIBUTED PRESENTATIONS

2017

Morris JL, DeRose J, Brunelle AR, Long JN. Long-term dynamics of climate and wildfire in an ancient aspen clone in southern Utah, USA. Abstract and poster at the PAGES Open Science Meeting in Zaragoza, Spain.

Morris JL, Higuera PE, Haberle S, Whitlock C. Long-term vegetation and wildfire trends in the Central Plateau, Tasmania, Australia. Abstract and poster at the PAGES Open Science Meeting in Zaragoza, Spain.

2016

Morris JL. Managing bark beetle impacts on social-ecological systems. Abstract and poster. Restoring the West Conference, Logan, Utah.

Morris JL, Higuera PE, Haberle S. Monitoring vegetation change following a high-intensity wildfire in the Tasmanian World Heritage Area. Abstract and talk at the meeting of the Association of America Geographers in San Francisco, California.

2015

Morris JL. Finding black cats in dark rooms: The quest to reconstruct beetle outbreaks using sedimentary records. Abstract and talk at the Western Forest Insect Work Conference in Santa Fe, New Mexico.

2014

Morris JL, Higuera PE. Humans and wildfire during the Late Quaternary in the subalpine interior of Tasmania, Australia. Abstract and talk at the Large Wildland Fires Conference in Missoula, Montana.

2013

Morris JL, le Roux PC, Brunelle AR. Using pollen and geochemical data from lake sediments to reconstruct spruce beetle disturbances. Abstract and talk at the meeting of the Ecological Society of America in Minneapolis, Minnesota.

Morris JL, le Roux PC, Brunelle AR. How can pollen and geochemical evidence from lake sediments provide context for the ongoing bark beetle outbreak in western North America? Abstract and talk at the Pacific Climate Group Workshop in Pacific Grove, California.

2012

Morris JL, Fang K, Seppä H, Miller P, Rensson H. Comparison of proxy reconstructions and model simulations of Arctic treeline dynamics across Fennoscandia and European Russia. Abstract and poster at the meeting of the International Palynological and Paleobotany Congress in Tokyo, Japan.

Morris JL, Brunelle AR. Pollen accumulation in sediments during spruce beetle disturbances and implications for Holocene non-fire disturbance reconstructions. Abstract and talk at the International Palynological and Paleobotany Congress in Tokyo, Japan.

Morris JL. Holocene influence of ENSO on fire occurrence in subalpine forests of the desert southwest, USA. Abstract and talk at the meeting of the Association of American Geographers in New York City, New York.

2011

Morris JL. Response of forest ecosystems in the mountain ranges of western North America during the late Pleistocene to early Holocene transition. Abstract and talk at BIOCOLD I workshop in Tallinn, Estonia.

Morris JL. Using paleoecological data to understand the Holocene disturbance regimes of Engelmann spruce/subalpine fir forests in the Colorado Plateau Province, USA. Abstract and talk at the meeting of the International Biogeography Society in Oxford, United Kingdom.

Morris JL, Brunelle AR, Mock CJ, Power MJ. High-resolution records of Holocene vegetation change and disturbance from wildfire and spruce beetle in Utah, USA. Abstract and poster at the meeting of the International Union for Quaternary Research in Bern, Switzerland.

Morris JL, Brunelle AR. High-resolution reconstructions of Holocene vegetation change and disturbance from spruce beetle, wildfire, and human activity in Utah, USA. Abstract and talk at the meeting of the Association of American Geographers in Seattle, Washington.

2010

Morris JL, Brunelle AR, Munson AS, Power MJ, Mock CJ. High-resolution Holocene records of wildfire, spruce beetle disturbances, and vegetation change from Utah, USA. Abstract and poster at the meeting of the International Biogeography Society in Heraklion, Greece.

Morris JL, Brunelle AR, Power MJ. Holocene vegetation and disturbance reconstructions from the Great Basin and Colorado Plateau in Utah, USA. Abstract and talk at the Pacific Climate Group Workshop in Pacific Grove, California.

Morris JL, Mock CJ, Brunelle AR. Modern perspectives on high resolution paleoclimate data from the eastern Great Basin, USA. Abstract and talk at the meeting of the Geological Society of America in Denver, Colorado.

Morris JL, Brunelle AR. Calibration and application of sedimentary proxies in evaluating spruce beetle disturbances from the high plateaus of Utah. Abstract and talk at the meeting of the Association of American Geographers in Washington, District of Columbia.

Morris JL, Brunelle AR, Munson AS. Using sedimentary proxies to infer past spruce beetle outbreaks. Abstract and talk at the Western Forest Insect Work Conference in Flagstaff, Arizona.

2009

Morris JL, Brunelle AR. Inferring spruce beetle outbreaks from lake sediments. Abstract and talk at the meeting of the Association of American Geographers in Las Vegas, Nevada.

2008

Morris JL, Brunelle AR. A palynological calibration of spruce beetle epidemics from Utah, USA. Abstract and poster at the Pacific Climate Group Workshop in Pacific Grove, California.

Morris JL, Brunelle AR. Sedimentary evidence of spruce beetle outbreaks. Abstract and talk at the meeting of the Association of American Geographers in Boston, Massachusetts.

2007

Morris JL, Brunelle AR. Disturbance signals from the Wasatch Plateau, Utah. Abstract and talk at the meeting of the Association of American Geographers in San Francisco, California.

2006

Morris JL, Brunelle AR. Holocene disturbance regimes on the Wasatch Plateau, Utah. Abstract and poster at the meeting of the American Quaternary Association in Bozeman, Montana.

Morris JL, Brunelle AR. Forest disturbance regimes on the Wasatch Plateau, Utah. Abstract and poster at the Pacific Climate Group Workshop in Pacific Grove, California.

Morris JL, Brunelle AR. Climate change, spruce beetle, and disturbances in Utah. Abstract and talk at the meeting of the Association of American Geographers in Chicago, Illinois.

RESEARCH IN THE NEWS

Interviewed for Utah Public Radio: Lake Mud Tells the History of Spruce Beetle Outbreaks on the Wasatch Plateau, by Leslie Forero, 2019.

<https://www.upr.org/post/did-you-know-lake-mud-can-tell-us-history-spruce-beetle-outbreaks-wasatch-plateau>

Interviewed for Superlatives: The Biology of Extremes by Matthew LaPlante, 2019.

<https://www.amazon.com/Superlative-Extremes-Matthew-D-LaPlante/dp/1946885940>

Interviewed for Yale Environment 360: Small Pests, Big Problems: The Global Spread of Bark Beetles, by Cheryl Katz. 2017.

<http://e360.yale.edu/features/small-pests-big-problems-the-global-spread-of-bark-beetles>

Interviewed for National Public Radio's Marketplace: Obama visits a state that lives climate change: Alaska, by Andy Uhler. 2015.

<http://www.marketplace.org/2015/08/31/sustainability/obama-visits-state-lives-climate-change-alaska>

Interviewed for Utah Adventure Journal: Bark Beetles in Utah, by Luis Arevalo. 2013.

<http://utahadvjournal.com/index.php/beetle-mania>

Interviewed for Utah Forest News: Mud Provides Windows into Utah's Forest History, Darren McAvoy. 2007. <http://forestry.usu.edu/files/uploads/UFN/UFN1104.pdf>

TEACHING

Classroom Courses as Sole Instructor

2018 (spring semester)

Natural Environments of the Earth (GEOG 1000), Weber State University (2 sections)

People and Places of the World (GEOG 1300), Weber State University (1 section)

Climate Change (GEOG 1500), Weber State University (1 section)

2017

Natural Environments of the Earth (GEOG 1000), Weber State University (4 sections)

People and Places of the World (GEOG 1300), Weber State University (4 section)

Climate Change (GEOG 1500), Weber State University (1 section)

Forests in the Arts and Sciences (HNRS 2030), Weber State University (1 section)

2016

Natural Environments of the Earth (GEOG 1000), Weber State University (3 sections)

World Regional Geography (GEOG 1300), Weber State University (1 section)

Geography of Natural Disasters (GEOG 1700), Salt Lake Community College (2 sections)

Human Geography (GEOG 1400), University of Utah (1 section)

Introduction to Physical Geography (GEOG 1000), Salt Lake Community College (2 sections)

2015

Introduction to Physical Geography (GEOG 1000), Salt Lake Community College (2 sections)
World Regional Geography (GEOG 200), University of Idaho (1 section)

2011

Geography of America's National Parks (GEOG 1080), University of Utah (2 sections)

2010

Geography of America's National Parks (GEOG 1080), University of Utah (1 section)
World Regional Geography (GEOG 1300), University of Utah (2 sections)

Online Courses as Instructor of Record**2017**

Geography of Natural Disasters (GEOG 1700), Salt Lake Community College (2 sections)

2016

Introduction to Physical Geography (GEOG 1000), Salt Lake Community College (1 section)

Classroom Courses as Co-Instructor**2011**

Advances in Paleoclimatology (GEO 330), University of Helsinki

Invited Guest Lectures**2016**

Introduction to Physical Geography (GEOG 1000), Utah Valley University

2014

Ecosystem Vulnerability (GEOG 504), University of Idaho
Our Physical Environment (GEOG 101), San Francisco State University

2013

Fire Ecology & Management (FOR 326), University of Idaho