

ECOLOGY, EVOLUTION, AND BEHAVIOIR

Fall 2020 Seminars

- Sept 10** Elise Zipkin
EEBB Director
The Future of EEB Town Hall
- Sept. 17** **“Managing for resilience of island fishes”**
Stephanie M. Carlson
EEBB DISTINTUISHED SPEAKER
Evolutionary Ecology and Conservation
University of California – Berkeley
Contact: Mariah Meek
- Sept. 24** **"African killifishes shed light on evolution and modulation of lifespan"**
Dario Valenzano
Group Leader
Max Plank Institute for Biology and Ageing
Contact: Andrew Thompson/Ingo Braasch
- Oct. 1** **“Large Animals Influence Biogeochemistry in the Mara River, Kenya”**
Emma J. Rosi
EEBB DISTINGUISHED SPEAKER
Senior Scientist, Cary Institute of Ecosystem Studies
University Georgia
Contact: Stephen Hamilton
- Oct. 8** **“Anthropogenically rescaled community assembly and consequences for ecosystem functioning”**
Jocelyn E. Behm
Center for Biodiversity
Temple University
Contact: Dan Turner
- Oct. 15** **"Natural selection of anti-herbivore defense as a function of plant ontogeny"**
Karina Boege
Evolutionary Ecology
National Autonomous University of Mexico
Contact: Elizeth Cinto Mejia/Dan Turner
- Oct. 22** **“Nighttime ecology and its application in animal behavioral and conservation studies”**
Brian D. Gerber
Natural Resources Science
University of Rhode Island
Contact: Kayla Davis
- Oct. 29** **“Sociogenomics: The molecular biology that links nature and nurture”**
Gene E. Robinson
Integrative Biology/Entomology
University of Illinois – Urbana-Champaign
Contact: Darren Incorvaia
- Nov. 5** **“Figuring out the tips for speciation and macroevolutionary analyses”**
Craig Moritz
Division of Ecology and Evolution
Research School of Biology
Australian National University
- Nov. 12** **“Non-Academic Career Track”**
Anna Funk (Groves) MSU PLB/EEBB Ph.D. Graduate 2017
Senior Editor
The Discovery Magazine
Mitch Lettow MSU BS and MS Graduate 2013
Stewardship Specialist
SW Michigan Conservatory
Contact: Lars Brudvig
- Nov. 19** **"Plant populations in a human-dominated world: How do they grow and change?"**
Christopher Warneke
EEBB DISTINGUISHED STUDENT SPEAKER
Department of Plant Biology
Michigan State University
- Dec. 3** **“Is the high diversity in tropical forests driven by the interactions of plants and their pests”**
Lissy D. Coley
Biology Department
University of Utah
Contact: Will Wetzel

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Spring 2020 Seminars

- Jan. 16 **“Putting the HAL in Haldane: leveraging machine learning for population genetics”**
Andy Kern Department of Biology, Institute for Ecology Evolution
University of Oregon
Contact: Gideon Bradburd and Matteo Tomasini
- Jan. 23 **“Cooperation during risky interspecific interactions”**
Tracy Montgomery DISTINGUISHED STUDENT SPEAKER
Department of Integrative Biology, Michigan State University
- Jan. 30. **“Careers other than tenure-stream positions”**
“The Path of least resistance makes the river crooked: life as a federal scientist”
Toni Lyn Morelli, Research Ecologist
USGS NE Climate Science Center, Amhurst, MA
Contact: Maggie Sawdy
"Plants, people, and patching up ecosystems: An ecological restoration career in a local land trust"
Mitch Lettow Stewardship Specialist
Southwest Michigan Land Conservancy
Contact: Lars Brudvig
- Feb. 6 **“The conflict beneath your feet: Genetic tradeoffs in the plant root microbiome”**
Corlett Wood¹ Evolutionary Ecology, University of Pittsburgh
Contact: Michael Foisy
- Feb. 13 **"Eco-Eco-Devo and the origin of obligate endosymbiosis between ants and bacteria"**
Ehab Abouheif Department of Biology, McGill University
Contact: Ingo Braasch
- Feb. 20 **“Shifting dynamics of demography and adaptation along geographic gradients”**
Amy Angert EEBB DISTINGUISHED SPEAKER
Department of Botany, University of British Columbia
Contact: Christopher Warneke
- Feb. 27 **“Scents of Danger: Chemically-mediated predator-prey interactions in aquatic habitats”**
Brian D. Wisenden Biosciences Department
Minnesota State University - Moorhead
Contact: Michael Wagner and Mikaela Hanson
- Mar. 12 **“The Quantitative Turtle Analysis Project: Machine learning, with turtles”**
Andy Royle Research Statistician
USGS Patuxent Wildlife Research Center
Contact: Matt Farr and Sean Sultaire
- Mar. 19 **“Large Animals Influence Biogeochemistry in the Mara River, Kenya”**
Emma Rosi Cary Institute of Ecosystem Studies
University of Georgia
Contact: Steven Hamilton
- Mar. 26 **“Ecological and evolutionary fingerprints of a changing climate”**
Seema Sheth Plant and Microbial Biology, North Carolina State University
Contact: Marianna Szucs
- Apr. 2 **“Managing for resilience of inland fishes”**
Stephanie Carlson Department of Environmental Science
Policy and Management, University of California, Berkeley
Contact: Mariah Meek
- Apr. 9 **Seismic shifts in island food webs: Island responses to invasive mammal removal”**
Holly Jones Department of Biological Sciences, Northern Illinois University
Contact: Nick Haddad

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Spring 2019 Seminars

- Jan. 17 **“Adaptation of a mammalian species to its gut microbiota”**
Andrew Moeller Department of Ecology and Evolutionary Biology
Cornell University
Contact: Gideon Bradburd
- Jan. 24 **“Evolution of sex chromosomes: Y degenerate?”**
Steven Wright Ecology & Evolutionary Biology, University of Toronto
Contact: Kevin Bird
- Jan. 31 **“2-Alkenals: From heteropteran microbial symbiosis to Alzheimer’s disease”**
Judith Becerra Ecology and Evolutionary Biology, University of Arizona
Contact: Andrea Glassmire
- Feb. 7 **“The once and future forests: Ice age experiments for a warming world”**
Jaqueline Gill Paleoecology & Plant Ecology, University of Maine
Contact: Phoebe Zarnetske
- Feb. 14 **“Large animals influence river biogeochemistry in the Mara River, Kenya”**
Emma Rosi Cary Institute of Ecosystem Studies
Contact: Steven Hamilton
- Feb. 21 **“Unnatural selection and genetic drift: Fish population genomics in human dominated ecosystems”**
Mariah Meek Department of Integrative Biology
Michigan State University
- Feb. 28 **“Fishing for the genetic basis of vertebrate evolution, development, and regeneration”**
Craig Miller Department of Molecular & Cell Biology
University of California, Berkeley
Contact: Ingo Braasch
- Mar. 14 **“The evolution of cooperative breeding: Mechanisms and tradeoffs in the meerkat”**
Christine Drea Department of Evolutionary Anthropology, Duke University
Contact: Tracy Montgomery
- Mar. 21 **“Careers outside of academia”**
Tawny Mata Director of Strategic Engagement, The Nature Conservancy
Contact: Nick Haddad
Kate Yoshida Curator of Biology, Las Vegas Natural History Museum
Contact: Kay Holekamp
- Mar. 28 **“The diffused evolution of secondary chemistry”**
Diego Salazar Department of Biological Science
Florida International University
Contact: Marjorie Weber
- April 4 **“Moving through a turbulent world”**
Mimi Koehl Integrative Biology, University California, Berkeley
Contact: Taylor Rupp
- April 11 **“Social dynamics and social inequality in long-term study of a wild carnivore”**
Eli Strauss DISTINGUISHED STUDENT SPEAKER
Department of Integrative Biology, Michigan State University
- April 18 **“The annual reassembly of social network in a migratory bird: Connecting social relations to trait function”**
Daizabura Shizika Biological Sciences, University of Nebraska – Lincoln
Contact: Eli Strauss
- April 25 **“Microgeographic adaptation in island archosaurs: Mechanisms and conservation implications”**
Chris Funk DISTINGUISHED SPEAKER
Department of Biology, Colorado State University

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Fall 2018 Seminars

- Sept. 13** **“Using m2 plots, mechanistic experiments, and macroecological models to understand biodiversity in a warming world”**
Nathan Sanders¹ EEBB Distinguished Speaker
Director Environmental Program, University of Vermont
Contact: Christopher Warneke
- Sept. 20** **"Spatial ecology and behavior of wild pigs in Michigan"**
Steven Gray EEBB Distinguished Student Speaker
Ph.D. Candidate, Department of Fisheries and Wildlife
Michigan State University
- Sept. 27** **“Careers outside of academia”**
Sarah Saunders Ph.D., 2015 Quantitative Ecologist
Audubon Society
Contact: Elise Zipkin

Emily Henry Ph.D. 2013, Assistant Director of Program Development
Office of Professional and Continuing Education
Oregon State University
Contact: Kendra Cheruvelil
- Oct. 4** **“Sensory systems, learning, and communication - insights from the enigmatic world of arachnids”**
Eileen Hebets² Biological Sciences
University Nebraska - Lincoln
Contact: Kenna Lehmann
- Oct. 11** **“Multisensory communication in an African cichlid fish”**
Karen Maruska Biological Sciences
Louisiana State University
Contact: Heather Eisthen
- Oct. 18** **“Reintroduction biology: directions in science and conservation management”**
Sarah Converse USGS Fish and Wildlife Research
University of Washington
Contact: Gary Roloff
- Oct. 25** **“Adding segments one by one: a tale of posterior elongation in arthropods”**
Terri Williams Biology Department
Trinity College
Contact: Savvas Constantinou
- Nov 1** **"Keystone individuals in animal societies: Some pros and cons"**
Jonathan Pruitt² Ecology, Evolution and Marine Biology
University of California – Santa Barbara
Contact: Helen McCreary
- Nov. 8** **“Rapid evolution in a changing world”**
Mark Christie Biological Sciences
Purdue University
Contact: Kim Scribner
- Nov. 15** **“When evolution is the solution to pollution: The genomic basis of rapid adaptation to extreme environmental change”**
Andrew Whitehead Environmental Toxicology
University of California - Davis
Contact: Andrew Thompson
- Nov. 29** **"Escape by inking: Marine mollusks avoid predators with diverse chemicals and mechanisms"**
Charles Derby Neurobiology and Biology
Georgia State University
Contact: Taylor Rupp
- Dec. 6** **"Modeling butterfly phenology and phenological mismatch is an increasingly warming world"**
Leslie Ries¹ Biology Department
Georgetown University
Contact: Nick Haddad

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Spring 2018 Seminars

- Jan. 18 **“Genetics and genomics in the conservation and management of Pacific salmon”**
Lisa Seeb, School of Aquatic and Fishery Sciences, College of the Environment,
University of Washington Contact: Mariah Meek
- Jan. 25 **“Pathogenicity and ecosystem disruption from ecological competition for
B vitamins”**
Clifford Kraft, College of Agriculture and Life Science, Department of
Natural Resources, Cornell University Contact: Elise Zipkin/Mariah Meek,
KBS: Sarah Fitzpatrick
- Feb. 1 **“Adaptation and specialization in variable environments”**
Nancy Emery, Ecology and Evolutionary Biology, University of
Colorado – Boulder Contact: Jen Lau Lab, KBS/Elena Litchman
- Feb. 8 **“EEBB careers outside of academia”**
Scott Butterfield, The Nature Conservancy, San Francisco Bay Area
Contact: Carolyn Malmström
Scott Fulbright, Co-founder and CEO, Living Ink Technologies, Fort Collins, CO
Contact: Richard Hill
- Feb. 15 **“Past climate change and the assembly of communities we study today”**
Mark A. McPeck, Department of Biological Sciences, Dartmouth University
Contact: Laura Twardochleb
- Feb. 22 **“A variable world: Consequences for the ecology of plants and insects”**
William C. Wetzel, Department of Entomology, Michigan State University
- Mar. 01 **“The secret life of soil microbes: Unearthing the microbial ecology of the
soil carbon cycle”**
Daniel Buckley, School of Integrative Plant Science, Soil and Crop
Sciences Section, Cornell University
Contact: Sarah Evans/MMG: Ashley Shade
- Mar. 15 **“Food For Thought: Can smart foraging explain how primates afford big
their brains?”**
Meg Crofoot, EEBB Distinguished Speaker
Evolutionary Wing, Department of Anthropology, University of California – Davis
Contact: Eli Strauss
- Mar. 22 **“Fancy feet and a checkered past: genetics of diversity in the rock pigeon”**
Mike Shapiro, Department of Biology, University of Utah
Contact: Ingo Braasch
- Mar 29 **“The biogeochemical theatre and the ecological play”**
Michael E. Kaspari, Department of Biology, University of Oklahoma
Contact: Klara Scharnagl
- Apr. 05 **“From microbes to brains: toxic symbiotic bacteria and adaptive evolution
in the nervous system of rough-skinned newts”**
Patric Vaelli, EEBB Distinguished Student Speaker
- Apr. 12 **“Spatially explicit models for ecological inference”**
Chris Sutherland, Department of Environmental Conservation
University of Massachusetts – Amherst
Contact: Alex Wright

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Fall 2017 Seminars

- Sept. 14** **“EEBB careers outside of academia”**
Rachael Eaton EEBB Ph.D. 2016, Graduate Program Administrator
Rice University
Contact: Catherine Lindell
- Daniel Linden EEBB Ph.D. 2011, Statistician
National Marine Fisheries Service
Contact: Gary Roloff
- Sept. 21** **“Evolutionary novelties and the brain development of the octopus”**
Clifton Ragsdale Department of Neurobiology
University of Chicago
Contacts: Anselmo Pontes
- Sept. 28** **"Gentle or not? Female-female competition in an Old World Monkey"**
Marina Cords Ecology, Evolution and Environmental Biology
Columbia University
Contact: Eli Strauss
- Oct. 5** **“Is Cuatro Cienegas a lost paradise?”**
Valeria Souza Ecology, Evolutionary Biology, Microbiology
Universidad Nacional Autónoma de México
Contact: Rich Lenski
- Oct. 12** **"Songbird social psychology: flock complexity and chickadee behavior"**
Todd M. Freeberg Ecology and Evolutionary Biology
University Texas-Austin
Contact: Heather Eisthen
- Oct. 19** **"Weeds versus seeds: A restoration odyssey"**
Anna Groves **EEBB Distinguished Student Speaker**
Plant Biology, Michigan State University
- Oct. 26** **“Solving the habitat fragmentation debate”**
Robert Fletcher¹ Wildlife Ecology and Conservation
University Florida
Contact: Lars Brudvig
- Nov 2** **"Reverse ecology: Using genomes to understand the natural histories of microorganisms”**
Anne Pringle¹ Botany and Bacteriology
University Wisconsin-Madison
Contact: Klara Scharnagl
- Nov. 9** **"Ecological meta-analysis: conceptual challenges and applications"**
Craig W. Osenberg¹ Odium School of Ecology,
University of Georgia
Contact: James Bence
- Nov. 16** **"Collective movement in animal societies"**
Ariana Strandburg-Peshkin Max Planck Institute for Ornithology
Contact: Kay Holekamp
- Nov. 30** **"Using m2 plots, mechanistic experiments, and macro ecological models to understand biodiversity change and climate change in mountains around the world"**
Nathan Sanders¹ **EEBB Distinguished Speaker**
Community Ecology, University of Vermont
Contact: Chad Zirbel
- Dec. 7** **"Exercise physiology of birds during migration and its ecological implications"**
Scott McWilliams Natural Resource Sciences,
University of Rhode Island
Contact: Jen Owen

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Fall 2016 Seminars

- Sept. 15 **"Validating laboratory experiments on microbial social behavior: Evidence from genomics and field work"**
Joan Strassmann² Biology, Washington University in St. Louis
Contact: Chandra Jack
- Sept. 22 **"Consequences of biodiversity loss for ecosystem functioning, stability, and services"**
Forest N. Isball¹ Associate Director for Cedar Creek
Contacts: Lars Budvig, campus/Jen Lau, KBS
- Sept. 29 **"The maintenance and generation of diversity in freshwater communities: insights from plankton in Michigan ponds to the global distribution of endemic fish"**
Patrick Hanly Integrative Biology, Michigan State University
Distinguished Student Speaker
- Oct. 6 **"Climate change and the conservation of montane biodiversity"**
Morgan W. Tingley Ecology and Evolutionary Biology, Univ. of Connecticut
Contact: Elise Zipkin
- Oct. 13 **"Bespoke physics for digital biology"**
David H. Ackley³ Computer Science, University of Mexico
Contact: Charles Ofria
- Oct. 20 **"Artificial selection on beneficial microbiomes of animals and plants: principles of microbiome inheritance, microbiome heritability, and differential host-microbiome co-propagation"**
Ulrich G. Mueller⁴ Integrative Biology, University Texas-Austin
Contact: Maren Friesen
- Oct. 27 **"EEBB careers outside of academia"**
Erin Boydston EEBB Ph.D. 2001, Research Ecologist
USGS Western Ecological Research Center
Cynthia Wei EEBB Ph.D. 2004, Associate Director of Education
National Socio-environmental Synthesis Center
Contact: Kay Holekamp
- Nov. 3 **"Adaptation and climate change: evolutionary differences in climatic tolerances and new possibilities in natural resource management"**
Jessica Hellmann Ecology, Evolution and Behavior
Institute on the Environment
Contact: Jack Liu
- Nov. 10 **"Causes and consequences of social evolution in bees"**
Karen Kapheim Biology Department, Utah State University
Contact: Kay Holekamp
- Nov. 17 **"Change and reliability in the evolution of animal information use: experiments with bees and flies"**
Aimee Dunlap² Department of Biology, University of Missouri-St. Louis
Contact: Fred Dyer
- Dec. 1 **"Brain diversity in evolution: what changes, what doesn't, and what does it matter"**
Suzana Herculano-Houzel² Vanderbilt University
Contact: Heather Eisthen
- Dec. 8 **"The cultural and co-evolutionary history of milkweeds and monarchs"**
Anurag Agrawal¹ Ecology, Evolutionary Biology and Entomology
Cornell University
EEBB Distinguished Speaker
Contact: Carina Baskett