

MATTHEW W. H. CHATFIELD

School of Biology & Ecology

University of Maine

5751 Murray Hall

Orono, ME 04097-5751

(207) 581-2568

matthew.chatfield@maine.edu

PROFESSIONAL PREPARATION

2009 PhD, Ecology & Evolutionary Biology, University of Michigan

1998 BA, Biology, University of Chicago

PROFESSIONAL EXPERIENCE

2021–present Assistant Professor, School of Biology & Ecology, University of Maine

2020–2021 Conservation Biologist, Center for Wildlife Studies

2017–2020 Program Chair, Ecology & Management Program, Unity College

2016–2020 Associate Professor of Conservation Biology, School of Biodiversity
Conservation, Unity College

2017–2018 Adjunct Instructor, Online College of Environmental Science and Sustainability,
Unity College

2011–2018 Adjunct Instructor, Summer Field Program, Gulf Coast Research Laboratory,
University of Southern Mississippi

2014–2016 Assistant Professor, Center for Biodiversity, Unity College

2013–2014 Research Assistant Professor, Tulane-Xavier Center for Bioenvironmental
Research, Tulane University

2011–2013 Visiting Assistant Professor, Department of Ecology & Evolutionary Biology,
Tulane University

2009–2011 Post-doctoral Researcher, Department of Ecology & Evolutionary Biology,
Tulane University

PEER-REVIEWED PUBLICATIONS

LeClair GD, **Chatfield MWH**, Wood Z, Parmelee JR, Frederick CA (2021) Influence of the
COVID-19 pandemic on amphibian road mortality. *Conservation Science and Practice*, in
press

Bates AE...**Chatfield MWH**...et al. (2021) Diverse Human-Nature Interactions Revealed by
the Global COVID-19 Lockdown. *Biological Conservation*, in press

Enbody ED, Boersma J, Johns JA, **Chatfield MWH**, Ketaloya S, Baldassarre DT, Hazlehurst J,
McGowen O, Schwabl H, Karubian J (2019) Social organization and breeding biology of
the white-shouldered fairy-wren *Malurus alboscapulatus*. *EMU–Austral Ornithology*
119:274-285

Brannelly LA, **Chatfield MWH**, Sonn J, Robak M, Richards-Zawacki CL (2018) Fungal
infection has sublethal effects in a lowland subtropical amphibian population. *BMC
Ecology* 18:34

- Drabeck DH, **Chatfield MWH**, Richards-Zawacki CL (2014) The status of Louisiana's diamondback terrapin (*Malaclemys terrapin*) populations in the wake of the Deepwater Horizon oil spill: Insights from population genetic and contaminant analyses. *Journal of Herpetology* 48:125-136
- Brannelly LA, **Chatfield MWH**, Richards-Zawacki CL (2013) Visual implant elastomer tags are an unreliable method of identification in adult anurans. *Herpetological Journal* 23:125-129
- Chatfield MWH**, Brannelly LA, Robak MJ, Freeborn L, Lailvaux SP, Richards-Zawacki CL (2013) Sublethal fitness consequences of infection by *Batrachochytrium dendrobatidis* in northern leopard frogs (*Lithobates pipiens*). *EcoHealth* 10:90-98
- McMahon TA, Brannelly LA, **Chatfield MWH**, Johnson PTJ, Joseph MB, McKenzie VJ, Richards-Zawacki CL, Vesesky MD, Rohr JR (2013) Chytrid fungus *Batrachochytrium dendrobatidis* has non-amphibian hosts and releases chemicals that cause pathology in the absence of infection. *Proceedings of the National Academy of Sciences* 110:210-215
- Chatfield MWH**, Moler P, Richards-Zawacki CL (2012) The amphibian chytrid fungus, *Batrachochytrium dendrobatidis*, in fully aquatic salamanders from southeastern North America. *PLoS One* 7:e44821
- Brannelly LA, **Chatfield MWH**, Richards-Zawacki CL (2012) Field and laboratory studies of the susceptibility of the green treefrog (*Hyla cinerea*) to *Batrachochytrium dendrobatidis* infection. *PLoS One* 6:e38473
- Chatfield MWH**, Richards-Zawacki CL (2011) Elevated temperature as a treatment for *Batrachochytrium dendrobatidis* infection in captive frogs. *Diseases of Aquatic Organisms* 94:235-238
- Chatfield MWH**, Kozak KH, Fitzpatrick BM, Tucker PK (2010) Differential introgression in a salamander hybrid zone: inferences from genetic data and ecological niche modeling. *Molecular Ecology* 19:4265-4282
- Chatfield MWH**, Rothermel BB, Brooks C, Kay J (2009) Detection of *Batrachochytrium dendrobatidis* in amphibians from the Great Smoky Mountains of North Carolina and Tennessee, USA. *Herpetological Review* 40:176-179
- Semlitsch RD, Ryan TJ, Hamed K, **Chatfield M**, Drehman B, Pekarek N, Spath M, Watland A (2007) Salamander abundance along road edges and within abandoned logging roads in Appalachian forests. *Conservation Biology* 21:159-167

OTHER PUBLICATIONS

- Tan EH, **Chatfield M** (2019) An Unexpected Helper. Chestnut: The Journal of The American Chestnut Foundation. Winter 2019
- Lamb JY, **Chatfield MWH** (2014) Geographic distribution: USA, Mississippi: *Eleutherodactylus planirostris*. *Herpetological Review* 45:458
- Chatfield MWH**, Vance M, Thomas AK, Lee JR (2014) *Plestiodon fasciatus*: spider web entrapment. *Herpetological Review* 45:331
- Chatfield MWH**, Vance M (2014) *Osteopilus septentrionalis*: possible range extension. *Herpetological Review* 45:278
- Chatfield MWH** (2008) Amphibian and Reptile Surveys of Bear Creek Nature Park, Cranberry Lake Park and Marsh View Park in Oakland Township, Michigan. Stewardship Program, Oakland Township Parks and Recreation Commission

- Chatfield M** (2008) Confronting Global Amphibian Declines in the Southern Appalachians. Appalachian Highlands Science Journal 3:4
- Rothermel BB, **Chatfield MWH** (2007) Prevalence and potential threat of an emerging disease to amphibians in the Appalachian Highlands. US Department of the Interior, National Park Service

COURSES

Center for Wildlife Studies

Use of Scent Detection Dogs in Conservation Research – Summer online-field hybrid short course

University of Maine

Professionalism in Biology (BIO 505) – Graduate-level online course
Evolution (BIO 365)

Tulane University

Diversity of Life (EBIO 1010) – Lecture and lab
Issues in Contemporary Ecology and Evolutionary Biology (EBIO 4970/4980)

Unity College

Diversity of Life (BI 1114)
Population and Community Ecology (BI 2004) – Lecture and lab
Evolution (BI 3423)
Conservation Biology (BI 3273)
Herpetology (BI 3243) – Includes a week-long field trip to southern Mississippi
Animal Behavior (BI 3173)
Biodiversity Capstone (BI 4703) – Includes a weekend field trip to Cape Cod, MA
Seminar: Sea Turtle Biology (BI 3111)
Wetland Ecology & Restoration (BI 3263)
Seminar: Understanding the Global Amphibian Extinction Crisis (UC 4501)

University of Southern Mississippi, Gulf Coast Research Lab

Coastal Herpetology (COA 412/512) – Summer Field Program three-week short course

Unity College School of Distance Education

Conservation Ecology (NR 5233) – Graduate-level online course

INVITED SEMINARS & CONTRIBUTED PAPERS

- 2021 School of Biology & Ecology, University of Maine, Orono
- 2020 Department of Wildlife, Fisheries & Conservation Biology, University of Maine, Orono
- 2019 Maine Chapter of The Wildlife Society, Augusta, Maine
- 2019 International Congress of Conservation Biology, Kuala Lumpur, Malaysia
- 2019 OceanView, Falmouth, Maine
- 2018 Western Maine Chapter of the Audubon Society, Farmington, Maine
- 2018 American Chestnut Foundation Regional Chapters Meeting, Portsmouth, New Hampshire
- 2018 Northeast Partners in Amphibian & Reptile Conservation, Amherst, Massachusetts
- 2017 Western Maine Chapter of the Audubon Society, Farmington, Maine
- 2016 American Chestnut Foundation Regional Chapters Meeting, Portsmouth, New Hampshire
- 2016 Northeast Partners in Amphibian & Reptile Conservation, Poultney, Vermont
- 2015 Northeast Partners in Amphibian & Reptile Conservation, Providence, Rhode Island
- 2015 Maine Science Festival, Climate Change Panelist, Bangor, Maine

- 2013 Innovation Louisiana, Clean & Green Technologies Panel, New Orleans, Louisiana
- 2013 Basics of the Basin Conference, Panelist, New Orleans, Louisiana
- 2013 A Studio in the Woods, Tulane University, New Orleans, Louisiana
- 2013 Water Committee Meeting, Horizon Initiative, New Orleans, Louisiana
- 2012 Amphibian Diseases Conference, Arizona State University
- 2011 Departmental Seminar Series, Louisiana State University
- 2010 Emerging Amphibian Diseases Conference, Townsville, Australia
- 2010 Departmental Seminar Series, University of New Orleans, Louisiana

AWARDS & HONORS

- 2021 Financial gift, Lawrence E. White Family Foundation
- 2021 Research Grant, Potter Park Zoo
- 2021 Financial gift, Oklahoma City Zoo
- 2021 Financial gift, Maine Department of Inland Fisheries & Wildlife
- 2019 Research Grant, William P. Wharton Trust
- 2019 Research Grant, Davis Conservation Foundation
- 2019 Research Grant, Dorr Foundation
- 2019 Research Grant, John Sage Foundation
- 2019 CARE Grant, Oklahoma City Zoo and Botanical Garden
- 2019 Faculty Scholarship Grant, Unity College
- 2019 Financial gift, Maine Department of Inland Fisheries & Wildlife
- 2018 Financial gift, Oklahoma City Zoo
- 2018 Donald Harward Faculty Award for Service-Learning Excellence, Maine Campus Compact
- 2018 Faculty Scholarship Grant, Unity College
- 2017 Research Grant, Maine Outdoor Heritage Fund
- 2017 Research Grant, William P. Wharton Trust
- 2017 Research Grant, Davis Conservation Foundation
- 2017 Crowdfunding campaign, Unity College
- 2017 Faculty Scholarship Grant, Unity College
- 2017 Financial gift, Maine Department of Inland Fisheries & Wildlife
- 2016 Allen Island Research Grant, Up East Foundation
- 2016 Faculty Scholarship Grant, Unity College
- 2015 Faculty Scholarship Grant, Unity College
- 2012 Teaching Fellowship, Center for Engaged Learning & Teaching, Tulane University
- 2012 Classroom Enhancement Grant, Center for Engaged Learning & Teaching, Tulane University
- 2010 Research Grant, Louisiana Department of Wildlife & Fisheries