

CURRICULUM VITAE: JOSEPH TRAVIS

PERSONAL

CONTACT INFORMATION

Joseph Travis
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EDUCATION

1971-1975 University of Pennsylvania; A.B. in Biology
1975-1980 Duke University; Ph.D. in Zoology (Minor in Mathematics)
1976 Organization for Tropical Studies, Costa Rica

POSITIONS

1975 Research Assistant, University of Pennsylvania
1978 Teaching Assistant, Duke University
1979-1980 Research Assistant, Duke University
1980-1981 Postdoctoral Fellow, Mountain Lake Biological Station of
the University of Virginia (summers)
1980-1985 Assistant Professor, Florida State University
1985-1990 Associate Professor, Florida State University
1990- Professor, Florida State University
1991-1997 Chairman, Department of Biological Science, Florida State
University
1999-2000 Program Director for Computational Biology, School of
Computational Science and Information Technology
2000-2005 Director, School of Computational Science and Information
Technology, Florida State University
2005-2011 Dean, College of Arts and Sciences, Florida State University
1982-2005 Visiting Faculty, University of Virginia (10 summers)

AWARDS AND HONORS

1975 Election to Phi Beta Kappa, University of Pennsylvania
Graduation summa cum laude, University of Pennsylvania
James B. Duke Fellowship, Duke University
1984 Developing Scholar Award, Florida State University
1991 Fellow, American Association for the Advancement of Science
Distinguished Visiting Professor, University of Miami
Distinguished Visiting Scholar, Univ. of Zurich (Switzerland)
1992 University Teaching Award, Florida State University
Elected Vice-President, American Society of Naturalists
1994 Distinguished Visiting Ecologist, Colorado State University
1996 Robert O. Lawton Distinguished Professor, Florida State
University
2001 Dennis Chitty Lecturer, University of British Columbia
Distinguished Speaker, Evolution in the New Millenium Series,
Georgia Southern University
2003 Elected President, American Society of Naturalists [serve 2005]
2007 Gold Medal, Tallahassee Scientific Society
2008 Elected President, American Institute of Biological Sciences
[serve 2010]
2011 Edward O. Wilson Award, American Society of Naturalists
2012 Elected President, American Institute of Biological Sciences
2015 Elected Fellow, American Academy of Arts and Sciences
2017 Walton Lecturer, Mountain Lake Biological Station

PROFESSIONAL EXPERIENCE

TEACHING

1976-1980 Duke University

Seminar in Mathematical Biology
Introduction to Biology (Ecology and Evolution Segments)

1980-present Florida State University

Mathematical Demography
Biology of Lower Vertebrates
Evolution
Advanced Evolutionary Biology
Advanced Field Biology
Perspectives in Ecology and Evolutionary Biology
Experimental Biology
Evolution: Science and Values (with Leo Sandon, American Studies)
Quantitative Methods in Ecology and Evolutionary Biology
Philosophy of Biology (with Michael Ruse, Philosophy)
Population Ecology
Evolutionary Behavioral Ecology (with Emily DuVal)
Graduate Seminars on various topics
Service on 42 M.S. and 90 Ph.D. committees (not counting theses and dissertations under my direct supervision or cases in which the degree was not awarded)

1982-2004 University of Virginia (intermittent years)

Evolutionary Ecology
Vertebrates of the Southern Appalachians
Quantitative Methods in Field Biology
Population and Community Ecology
Ecology of Amphibians

SERVICE AND ADMINISTRATION: FLORIDA STATE UNIVERSITY

1980-present: Department of Biological Science

Executive Committee (15+ years)
Search Committees (multiple years and positions)
Committee on SRAD Use (7 years)
Department Chair (6.5 years)
Faculty Evaluation Committee (5 years)
Graduate Policy Committee (4 years)
Promotion and Tenure Committee (many years)
Space and Facilities Committee (3 years)
Recruitment and Planning Committee (3 years)
Curriculum Committee (2 years)
Colloquium Committee (2 years)
Library Committee (1 year)
Search Committee for Department Chairman (1982-83, 2002-2003)
Oversight Committee for New Laboratory Building (1988-91)
Steering Committees for Mote Symposia in Fisheries Science (1995-2011)
Mote Eminent Scholar Search Committees (1997-2004, 2015)
Fowler Chair Committee (2012-2013)
Diversity, Equity, and Inclusion Committee (2020-2021)
Advisory Committees for Junior Faculty Colleagues (L. Keller, T. Keller, T. Moerland, D. Levitan, A. Johnson, P. Trombley, S. Steppan, J. Fadool, D. Houle, G. Erickson, T. Hansen, J. Wulff, N. Underwood, W-M Deng, P. Beerli, E. DuVal, E. Lemmon, S. Lenhert,

S. Burgess, D. Okamoto, R. Vincis, D. Storace)

1983-present: University Service

Science Education Liaison Committee (1983-84)
Steering Committee, Statistics User Network (1985-86)
Science Center Planning Committee (1987-90)
Vertebrate Animal Care Instructor (1987-88)
Council on Research and Creativity (1988-93; 2001-03); Chair (1992-93)
Foundation Grants Advisory Council (1989-92)
President's Ad Hoc Committee on Indirect Cost Policy (1990)
University Space and Development Committee (1992-2000)
Biomedical Advisory Committee (1992-97; 2001-2005); Chair (2004-2005)
Science Ed. Partnership Award Advisory Committee (1991-1994)
President's Travel Grant Committee, Chair (1993-97)
Ad Hoc Committee to Review Physical Plant Services (1993)
State University System MacArthur Foundation Committee on
Environmental Study Center (1993)
Search Committee for President, FSU Foundation (1994)
Search Committee for Assistant Vice-President for Administration
(1994-95)
Search Committee for Assistant Veterinarian, LAR (1994)
Search Committee for Chair, Psychology Department (1994)
Strategic Planning Committee, FSU Marine Lab (1994-95)
Faculty Senate Budget Committee (1996-99)
University Council on Teaching (1996)
Computational Science and Technology Committee (1997)
Robert O. Lawton Distinguished Professorship Selection (1997,98; 2003)
Search Committee for Chair, Department of Mathematics (1998)
Chief Organizer, Workshop in Computational Biology, School of
Computational Science and Information Technology (1999)
Animal Care and Use Committee (Chair 1999-2001; 2020-2022)
Graduate Policy Committee Review, Department of Psychology, Chair
(2000)
Office of Research Strategic Planning Committee (2001-02)
University Named Professorships Committee (2003-2004)
FSU Marine Laboratory Task Force (2004)
College of Medicine Dean Search Committee (2007-08)
University President Search Advisory Committee (2009-10)
Chair, Search Committee for Director, FSU Coastal and Marine Lab (2019-
2020)

PROFESSIONAL SERVICE

National Academy of Science

Committee, Responsible Conduct of Research on Gene Drives in
Non-Human Organisms (2015-2016)
Committee Chair, Taxonomic Status of the Red Wolf and the Mexican
Gray Wolf (2018-2019)
Committee Chair, Research Directions for Understanding Red Wolf
Taxonomy and Evolutionary Relationships (2019-2020)
Guest Editor, *Proceedings of the National Academy of Science*
(2016-)

National Science Foundation

Advisory Panel, Population Biology and Physiological
Ecology Program (1986-89)
Advisory Panel, Research Experiences for Undergraduates
Sites (1997)
Advisory Panel, NATO Postdoctoral Fellowships (1998)

Advisory Panel, Undergraduate Mentorships in Environmental
Biology (1999)
Advisory Committee, Directorate for Biological Sciences (2006-11)
Advisory Committee, Environmental Research and Education (2006-2012),
Chair of Committee (2010-2012)
Committee of Visitors, Division of Environmental Biology (2009)

National Oceanic and Atmospheric Association Fisheries

Pacific Salmon Recovery Science and Review Panel (2003-05)
Chair, Invited Scientists Review of Biological Opinion for the Federal
Columbia River Power System Operation Plan, 2009

National Center for Ecological Analysis and Synthesis

Member, Scientific Advisory Board (1999-2002)
Chair, Scientific Advisory Board (2001-2002)

American Society of Ichthyologists and Herpetologists

Deputy Local Chairman for 1983 National Meeting
Program Chairman, 1983 National Meeting
Co-Chairman (with P. J. Morin) of Symposium "Amphibian Population
Biology," 1983 National Meeting
Stoye Award Judge, 1987 National Meeting
Board of Governors, 1992-94
Long Range Planning Committee, 1995-97

Ecological Society of America

Chairman, Membership Committee and Council Member (1985-88)
Robert H. MacArthur Award Committee (1987-92)
Council Member-at-large (1988-91)
Honorary Membership Committee (1994-96)

Society for the Study of Evolution

Council Member (1987-1990)
Nominating Committee (2008-2011), Chair (2010-2011)

American Society of Naturalists

Member, Presidential Award Committee (1988)
Chair, Young Investigators Award Committee (1990-92)
Vice-President (1994)
President-Elect (2004)
President (2005)
Member, E.O.Wilson Award Committee (2018-2021; Chair 2019-2021)

American Institute of Biological Science

Awards Committee (2005-2007)
President-Elect, President, Past-President (2008-2011)
Chair, Long Range Planning Committee (2010-2012)
Board Member, 2012
President (2013-2018; six calendar years)

Editorial Boards

Journal of Evolutionary Biology (1988-1991)

Oecologia (1990-1992)
The American Naturalist (1991-1994)
Annual Review of Ecology and Systematics (1991-1995)
Editor, The American Naturalist (1998-2001)
Special Feature Editor, The American Naturalist (2018-2019)

External Review Panels

- 1994 University of California, Irvine, School of Biological Sciences (8 departments) (With W. Eckhart, J. Frankel, M. Gallagher, J. Hildebrand, J. Holland)
- 1995 Northern Arizona University, Department of Biological Sciences at Northern Arizona University (with M. Wake)
- 1999 Indiana University, Center for Integrated Study of Animal Behavior, Indiana University (with M. McClintock and G. Rebec)
- 2000 University of Maryland-Baltimore County, Department of Biological Sciences (with E. Marder, T. Silhavy, M. Zuker)
- 2004 University of Houston, Department of Biology and Biochemistry (with L. Forney, G. Pilar)
- 2007 Harvard University, Department of Organismic and Evolutionary Biology (with S. Carroll, S. Chisholm, A. Clark, P. Crane, D. Futuyma, M. Koehl, Q. Cronk, M. Novacek, M. Ryan, K. Smith, S. Carroll)
Cornell University, Department of Ecology and Evolutionary Biology (with C. Moritz, M. Power, W. Schlesinger)
- 2009 University of Tennessee, Department of Ecology and Evolutionary Biology (with D. E. Goldberg)
- 2012 University of Connecticut, Department of Ecology and Evolutionary Biology
- 2014 University of Tennessee, Department of Ecology and Evolutionary Biology
- 2017 Auburn University, Department of Biological Sciences (with B. S. J. Winkel)
Oxford University, Departments of Plant Science and Zoology (with D. Edwards, C. Jiggins, J. Kaufman, S. Poethig, D. Rubenstein, P. Soltis)
- 2018 Utah State University, Department of Biology (with M. Nishiguchi, D. Vanderwall)
- 2019 University of California, Santa Barbara, Department of Ecology, Evolution, and Marine Biology (with D. Ackerly, D. Bronk)

Miscellaneous Additional Service

- 1989-90 Steering Committee for Proposed National Institute of the

Environment

- 1990-92 Society for the Study of Evolution: Council Member
- 1984-85 Member, Walton Pavilion Memorial Fund Committee,
Mountain Lake Biological Station
- 1984-2000 Board of Scientific Advisors, Highlands Biological
Station
- 1997 Bradfordville Study Citizen Group, Board of County
Commissioners, Leon County, Florida (appointed)
- 1999-2000 Peer Review Board, Bradfordville Lake and Stormwater Study,
Board of County Commissioners, Leon County, Florida.
- 2010-2018 Board of Directors, BioOne (Executive Committee 2016-17)
- 2015-2016 Local Organizing Committee, Ecology and Evolutionary Ethology
of Fishes Meeting, Tallahassee, Florida

CONTRACT AND GRANT ACTIVITY

- 1979 North Carolina Natural Heritage Program: "Ecological
Survey of Dare County, North Carolina," \$3000.
- 1980 Department of Energy Research Contract: "The Population Biology
of Larval Anurans," DE-AC05-76 OR00033-3-3004, \$1,000.
- 1981 National Science Foundation: "Sources and Consequences of
Growth Rate Variation in Larval Anurans," DEB 81-02782,
\$59,000.
Pratt Fund of the University of Virginia: "Population
Biology of Amianthium muscaetoxicum, a Perennial Lily,"
\$2,100.
Gerald Beadle Scholarship Grant, Tall Timbers Research Station:
"Species Interactions in Temporary Ponds," \$1,800.
- 1982 National Science Foundation: "Role of Larval Ambystoma
talpoideum as Mediators of Differential Survival in Larval
Anuran Populations," DEB 82-10396 (with W. H. Keen),
\$10,960.
Florida State University Foundation: "Demography of
Amianthium muscaetoxicum," \$1,210.
- 1983 National Science Foundation: "The Selective Advantages
and Genetic Basis of Body Size and Behavioral Variation in
Poecilia latipinna (Pisces: Poeciliidae)," BSR 83-05823
(with J. A. Farr), \$71,000.
- 1984 Committee on Faculty Research Support, Florida State University:
"Genotype-Environment Interactions in the Sailfin Molly
(Poecilia latipinna)," \$2,380.
Florida State University, Developing Scholar Award: \$5,000.
- 1985 National Science Foundation: "The Effect of Non-Random Mating
on Offspring Performance in Hyla crucifer," BSR 84-13223
(with B. Woodward), \$76,965.
National Science Foundation: "Comparative Demography and
Life History Variation in the Sailfin Molly, Poecilia
latipinna," BSR 84-15529, \$77,025.
State of Florida Nongame Wildlife Program: "Regional Variation

- in Habitat Requirements of the Sailfin Molly with Special Reference to the Florida Keys," GFC-84-022, \$9,650.
- 1986 National Science Foundation Multiuser Research Equipment: "Trace Elements for Measuring Dispersal in Nature: Graphite Furnace Atomic Absorption Spectrophotometry with Automated Sample Analysis," BSR 86-13373 (D. R. Strong, JT, D. Simberloff), \$50,000.
National Science Foundation: "Demographic and Genetic Analyses of Variation in Thermal Tolerance in Heterandria formosa," BSR 86-12528 (Dissertation Improvement Award for S. Forster), \$3,146.
State of Florida Nongame Wildlife Program: "Distribution of and Variability Within Natural Habitats in Pre-settlement Northern Florida, as Recorded by Land Office Survey Records," GFC-86-020 (dissertation research of M. Schwartz), \$9,977.
- 1987 National Science Foundation, Research Experiences for Undergraduates Program: "Mating Behavior and Selectivity in the Sailfin Molly, Poecilia latipinna" (Supplement to NSF BSR 84-15529), \$7,977.
- 1988 Committee on Faculty Research Support, Florida State University: "Genetics of Energy Storage in the Sailfin Molly," \$5,000.
National Science Foundation: "Genetic and Ecological Determinants of Polymorphism and Differentiation in the Sailfin Molly, Poecilia latipinna (Pisces, Poeciliidae)," BSR 88-18001, \$237,000.
- 1989 National Science Foundation, Research Experiences for Undergraduates Program: "Sexual Behavior in Sailfin Mollies" (supplement to BSR 88-18001), BSR 89-44373, \$7,800.
- 1990 National Science Foundation, Long Term Ecological Research Site Supplementary Award Program: "Large-scale Reciprocal Transplants with Sailfin Mollies" (supplement to BSR 88-18001), BSR 90-46465, \$47,837.
Florida Sea Grant: "Temporal Aspects of Recruitment and Spawning of the Gag Grouper in the Gulf of Mexico," R/LR-B-32 (with C. C. Koenig and P. L. Colin), \$98,000.
- 1992 National Science Foundation: "Phenotypic Plasticity in the Life History of the Sailfin Molly, Poecilia latipinna (Pisces: Poeciliidae)," DEB 92-20849, \$217,000.
Council for Instruction, Florida State University: "The Development of Three New Genetics Modules for a Laboratory Course in Experimental Biology" (with L. Epstein), \$11,369.
National Science Foundation: "Planning Grant to Develop a Teacher Institute: Teacher Enhancement," ESI 92-53264 (with A. S. Lumsden), \$43,405.
- 1993 National Science Foundation: "Extended Undergraduate Research Apprenticeships in Environmental Biology," DEB 93-17435 (with D. E. Granger), \$245,000.
- 1994 National Science Foundation: "Enhancement and Upgrade of the DNA Sequencing Facility: Upgrade of Automated Sequencer (ABI 373A)/Electrophoresis Unit," BIR 93-18079 (with L. G. Abele, E. I. Friedmann, L. R. Keller), \$53,023.
National Science Foundation: "Sperm Competition in the Sailfin Mollie," REU Supplement to DEB 92-20849, \$4,875.

- 1995 Council on Research and Creativity, Florida State University: Population Phylogeny of the Least Killifish," \$6,000.
- 1996 National Oceanic and Atmospheric Administration: "Population Characterization of Kemps Ridley Sea Turtle," NOAA-NMFS 1308-889-24 (with F. C. Coleman), \$31,910.
- 1997 Florida Department of Transportation: "Reducing Impacts on Rare Vertebrates That Require Small Isolated Water Bodies Along U.S. Highway 319," FLDOT-WPI 0510828 (with D.B. Means), \$40,000.
 Australian Research Council: "The Evolution of Phenotypic Plasticity in the Larval Life History of Crinia signifera," (with G. F. Watson, D. Reznick), \$23,921 (Australian)
 Australian Research Council: Visiting Faculty Collaborator Support, \$6,000 (declined due to personal circumstances).
- 1999 National Science Foundation: "The Maintenance of a Genetic Color Polymorphism in the Mosquitofish (Gambusia holbrooki)," DEB 99-02312 (Dissertation Improvement Award for L. Horth), \$7,890.
 National Science Foundation: "Density-Dependent Life-History Evolution in the Least Killifish, Heterandria formosa (Pisces Poeciliidae)," DEB 99-03925, \$435,000.
- 2000 National Science Foundation: "Evolvability of Sensory Systems In the Bluefin Killifish (Lucania goodei)," DEB 00-73896 (Dissertation Improvement Award for R.C. Fuller), \$10,960.
 Florida Department of Transportation: "Reducing Impacts on Rare Vertebrates That Require Small Isolated Water Bodies Along U.S. Highway 319," FLDOT-BB278 (with D.B. Means), \$42,000.
- 2002 Howard Hughes Medical Institute, Undergraduate Biological Sciences Education Program: "Enhancing Mathematical and Computational Biology at Florida State University," (team led by J. Elam), \$1,600,000.
- 2003 Florida Department of Transportation: "Life Cycles, Dispersal, and Critical Habitat Utilization of Vertebrates Dependent Upon Small Isolated Water Bodies in the Munson Sandhills and Woodville Karst Plain, Leon County, Florida," FLDOT-BD543 (with D. B. Means), \$44,489.
- 2004 National Science Foundation: "Measuring the Covariance Between Sensory System Properties and Behavior: A Test of the Assumptions of the Sensory Bias and Sensory Exploitation Models," IOB 0445127 (with R. C. Fuller, J. A. Fadool), \$403,500.
- 2006 National Science Foundation: "FIBER: Linking Genes to Ecosystems: How do Ecological and Evolutionary Processes Interact in Nature" EF 0623632 (with D. Reznick, R. H. Ferriere, D. F. Fraser, and C. M. Pringle), \$5,000,000 (FSU portion \$175,000).
 Alabama State Wildlife Commission: "Combining biotic surveys, GIS modeling, and ecological genetics to prioritize land purchases for the conservation of the federally threatened Red Hills salamander (Phaeognathus hubrichtii)," (with L. Rissler and J. Godwin), \$138,532 (FSU portion \$20,000).
- 2007 Florida Department of Education: "Florida Center for Mathematics and Science Education Research (FCR-STEM)," Award 371-96700-7SF01, \$5,100,000 (three-year award with M. Driscoll and L.

Lang).

- 2008 National Science Foundation: "The Expression and Impact of Parent-Offspring Conflict in Natural Populations of Least Killifish," DEB 08-22547 (with M. Schrader), \$350,000.
- 2009 National Science Foundation: "Learning to Teach for Equity in Science and Mathematics Classrooms: The FSU Noyce Scholarship Program," DUE 09-34702 (with D. E. Granger, K. Clark, S. Southerland, V. Sampson), \$726,260.
- 2011 Florida Department of Education: "BIOSCOPIES - Biology Institute and Online Support: Collaborative Opportunities to Promote Excellence in Science," Award 371-2351A-1CM01, \$5,405,297 (with L. Lang, M. Gaboardi, D. Sherdan, and R. Razzouk).
- 2012 Florida Department of Education: "BIOSCOPIES II - Biology Institute and Online Support: Collaborative Opportunities to Promote Excellence in Science," Award 371-2353A-3CM01, \$6,446,062 (with R. Razzouk).
National Geographic Society: "Experimental Studies of Species Invasions," Award 141622 (with D. Reznick, A. Lopez-Sepulcre), \$21,600.
National Science Foundation: "Experimental Evolution in Natural Populations of Guppies," DEB 1258231 (with D. Reznick, A. Lopez-Sepulcre, J. A. Endler, P. Bentzen), \$996,855.
- 2013 National Science Foundation: "Social Interactions and the Maintenance of Genetic Polymorphism," IOS 1257735 (with K. Hughes), \$445,000.
New Jersey DEP Conserve Wildlife Program: "Ecology, Evolution, and Conservation of the Pine Barrens Treefrog (*Hyla andersoni*)," FG13-093 (with A. Warwick), \$3,500.
Florida Department of Education: "STEMScopes - Mathematics and Science Partnership: Florida's Next Generation Science Partnership," Award 371-2354A-4C001 (with R. Razzouk), \$5,500,000.
- 2014 National Science Foundation: "Preparing and Supporting Equitable Teaching in Mathematics and Science Classrooms: The FSU-Teach Noyce Program," DUE 1439763 (with C. Shih, A. Kercheval, S. A. Southerland, C. Andrews-Larson), \$796,734.
- 2016 National Science Foundation: "The Paradox of Coexistence: The Evolution of Ontogenetic Interactions," DEB 1556884 (with co-PIs D. Reznick, T. Coulson, R. Bassar, A. Lopez-Sepulcre), \$996,888.
- 2017 National Science Foundation: "Sexual Conflict and the Evolution of Sexual Dimorphism in the Trinidadian Guppy," DEB 1711583 (Dissertation Improvement Award for A. Landy), \$19,631.
National Science Foundation: "Investigating the Characteristics of Programs That Produce Persistent STEM Teachers with High-Quality Instruction," DUE 1661400 (with C. Preston(PI), S. Southerland, M. Tekkumru Kisa), \$1,200,000.
Council on Research and Creativity, Florida State University: "Assessing the central paradox of the evolutionary process: the maintenance of color variation in mosquitofish," \$12,280.
- 2018 National Science Foundation: "The Evolution of Placentas in the Fish Family Poeciliidae: An Empirical Study of Macroevolution," DEB 1754669 (with D. Reznick(PI), G. Rosenthal, and M.

Springer), \$976,043.

INVITED PRESENTATIONS

ACADEMIC INSTITUTIONS

- 1977 Duke University, Department of Botany
- 1979 Savannah River Ecology Laboratory, Population Genetics Lab
University of Pennsylvania, Department of Biology
- 1980 Brown University, Division of Biology and Medicine
University of Vermont, Department of Zoology
University of Virginia, Department of Biology
Florida State University, Department of Biological Science
University of Virginia, Mountain Lake Biological Station
- 1981 Florida State University, Department of Curriculum and
Instruction
Florida State University, Department of Statistics
- 1982 University of Florida, Department of Zoology
George Mason University, Department of Biology
Vanderbilt University, Department of General Biology
University of Virginia, Mountain Lake Biological Station
Florida State University, Biochemistry Colloquium
Florida State University, Genetics Alumni Conference
- 1983 University of Alabama, Department of Biology
- 1984 University of Pennsylvania, Department of Biology
Academy of Natural Sciences of Philadelphia
University of Maryland, Distinguished Speaker Series of the
Department of Zoology
Rutgers University, Department of Biological Sciences
Clemson University, Department of Zoology
Princeton University, Department of Biology
- 1985 University of Florida, Department of Botany
- 1986 Organization for Tropical Studies, Costa Rica
University of Chicago, Department of Biology
University of California (Berkeley), Department of Zoology
University of Virginia, Mountain Lake Biological Station
Oregon State University, University Lecture Series in Ecology
and Evolutionary Biology
State University of New York at Stony Brook, Department of
Ecology and Evolutionary Biology
- 1987 Cornell University, Section of Ecology and Systematics
State University of New York College at Cortland, Department of
Biological Sciences
Savannah River Ecology Laboratory, Population Genetics
Laboratory
University of Georgia, Department of Molecular and Population
Genetics
Michigan State University, Kellogg Biological Station
Eckerd College, Sigma Xi Lecture
- 1988 University of Utah, Department of Biology
Wesleyan University, Department of Biology

- University of North Dakota, Department of Biology
University of Texas, Department of Zoology
University of Maryland, Appalachian Environmental Laboratory
Rutgers University, Department of Biological Sciences
Princeton University, Department of Biology
- 1989 University of Tennessee, Department of Zoology
Vanderbilt University, Department of General Biology
Mississippi State University, Department of Biological Sciences
University of Virginia, Mountain Lake Biological Station
University of Kentucky, Department of Biological Sciences
- 1990 University of California (Davis), Ecology Seminar Series
University of Florida, Department of Fisheries and Agriculture
University of Virginia, Mountain Lake Biological Station
University of Missouri, Division of Biological Sciences
Archbold Biological Station
McGill University, Department of Biology
- 1991 University of Houston, Department of Biology
University of North Carolina, Department of Biology
University of Miami, Department of Biology
Florida International University, Department of Biology
University of Zurich, Zoologisches Institut
University of Basel, Zoologisches Institut
University of Lausanne, Institute of Zoology and Animal Ecology
- 1992 University of Chicago, Department of Evolutionary Biology
University of Florida, Department of Zoology
Brown University, Division of Biology and Medicine
Savannah River Ecology Laboratory, Population Genetics Lab
- 1993 Old Dominion University, Department of Biological Sciences
Dartmouth College, Department of Biology
University of North Carolina, Department of Biology
University of South Carolina, Department of Biological Sciences
- 1994 University of California, Davis, Section of Ecology and Evolution
Colorado State University, Department of Biology
Michigan State University, Kellogg Biological Station
University of Virginia, Mountain Lake Biological Station
- 1995 Harvard University, Department of Organismal and Evolutionary Biology
University of Miami, Department of Biology
- 1996 Arizona State University, Department of Zoology
Dartmouth College, Department of Biology
Tulane University, Department of Ecology, Evolution, and Organismal Biology
- 1997 University of Pennsylvania, Department of Biology
- 1999 Loyola University, Department of Biology
University of Florida, Department of Zoology
- 2000 National Marine Fisheries Service Laboratory, Panama City
- 2001 University of British Columbia, Department of Zoology
Georgia Southern University, Department of Biological Sciences
Florida State University, Department of Civil Engineering

- University of Toronto, Department of Zoology
- 2002 Duke University, Department of Biology
Florida International University, Department of Biological Sciences
University of Florida, Department of Wildlife
University of Maryland-Baltimore County, Department of Biological Sciences
- 2003 Center for the Study of Population, Florida State University
National Marine Fisheries Service Laboratory, Panama City
Yale University, Department of Ecology and Evolutionary Biology
- 2004 University of Connecticut, Department of Ecology and Evolutionary Biology
Clemson University, Department of Biology
University of Virginia, Mountain Lake Biological Station
Oberlin College, Department of Biology
- 2005 Florida State University, Department of Oceanography
University of California-Davis, Section of Evolution & Ecology
University of Virginia, Department of Biology
University of Virginia, Mountain Lake Biological Station
- 2006 State University of New York at Stony Brook, Department of Ecology and Evolutionary Biology
University of Alabama, Department of Biology
University of Florida, Department of Zoology
National Marine Fisheries Service, Northwest Laboratory
University of Louisiana-Lafayette, Department of Biology
- 2007 Florida International University, Department of Biological Sciences
- 2010 Old Dominion University, Department of Biological Sciences
- 2011 Dartmouth University, Department of Biology
University of Florida, Department of Biology
- 2012 National Marine Fisheries Service Laboratory, Santa Cruz, CA
University of California, Santa Cruz, Department of Ecology and Evolution
Sam Noble Museum of Natural History, University of Oklahoma
University of Oklahoma, Department of Biology
- 2015 University of Illinois, Program in Ecology, Evolution and Conservation
- 2016 University of Florida, Department of Biological Sciences
- 2017 University of Arkansas, Department of Biological Sciences
University of Virginia, Endowed Walton Lecture at the Mountain Lake Biological Station
- 2020 John Radcliffe Hospital, Oxford, UK, Nuffield Department of Women's and Reproductive Health
University of Exeter, UK, Department of Biological Sciences
University of Oxford, Zoology Department
Duke University, Department of Biology

- 1981 Florida State University, Wakulla Springs Conference on
Community Ecology
- 1983 American Society of Ichthyologists and Herpetologists, 63rd
Annual Meeting (Tallahassee, FL, USA), Symposium: Amphibian
Population Biology
- 1984 Ecological Society of America/Society for the Study of Evolution
Joint Symposium, 35th Annual AIBS Meeting (Colorado Springs,
CO, USA): Genetical Approaches to Ecological Problems.
- 1985 Ecological Society of America, Annual Meeting (Minneapolis, MN,
USA), Symposium: Beyond Equilibrium in Population and
Community Dynamics
- 1987 National Science Foundation Conference on Theoretical Ecology
(Asilomar, CA, USA)
Virginia Polytechnic Institute and State University, Summer
Conference on History, Philosophy, and Social Studies of
Biology (Blacksburg, VA, USA), Symposium: Patterns in Field
Biology.
- 1988 Duke University, Department of Botany
Symposium: Recent Trends in Modern Biology: From Communities
to Genes
- 1989 American Society of Ichthyologists and Herpetologists, 69th
Annual Meeting (San Francisco, CA, USA), Symposium:
Environmental Influences on Phenotypic Expression of
Morphology and Life History Traits.
Ecological Society of America Annual Meeting, 40th Annual AIBS
Meeting (Toronto, Canada), Symposium: Evaluating the
Experimental Manipulation of Natural Plant Communities (N. L.
Fowler, JT).
First World Congress of Herpetology (Canterbury, Kent, UK),
Round Table: Optimal Sizes of Eggs and Clutches.
- 1990 Royal Society of London (London, UK) Discussion Meeting:
Regulation and Relative Abundance of Plant and Animal
Populations.
Fifth International Congress of Ecology (Yokohama, Japan),
Symposium: Life History Evolution: Theories and Tests.
American Society of Zoologists, 101st Annual Meeting (San
Antonio, TX, USA), Symposium: Ecological Morphology.
- 1991 National Science Foundation-University of Georgia Conference
(Athens, GA, USA): Ecology and Evolution of Plant
Reproduction: New Approaches.
National Science Foundation Conference (Friday Harbor, WA, USA):
Evolutionary, Population, and Community Responses to Global
Change.
- 1992 National Science Foundation Workshop (Albuquerque, NM, USA): A
National Center for Ecological Synthesis.
Italian Ecological Society-University of Parma (Parma, Italy),
Symposium: Ecology Toward the Year 2000.
- 1993 European Society for Evolutionary Biology, Fourth Congress
(Montpellier, France), Symposium: Physiological Basis for
Phenotypic Plasticity (JT, M. McManus).
- 1994 Second World Congress of Herpetology (Adelaide, Australia):
Plenary Lecture in Ecology.

- American Society of Naturalists, Annual Meeting (Athens, GA), Vice-Presidential Symposium: Observation and Experiment in Studies of Variable Species Interactions.
- 1995 National Academy of Science-National Research Council Workshop: Evolutionary Implications of Modern Anthropogenic Extinctions (Washington, DC, USA).
- 1997 National Center for Ecological Analysis and Synthesis Workshop (Santa Barbara, CA, USA): Rapid Evolution in Interspecific Interactions.
- 1998 Society for Integrative and Comparative Biology Annual Meeting (Boston, MA, USA) Symposium: Evolutionary Physiology.
- 1999 National Aeronautics and Space Administration & American Museum of Natural History (New York, NY, USA) Workshop: Evolutionary Biology.
- 2002 National Science Foundation Biocomplexity Workshop (Tallahassee, FL, USA): Coevolution of Physicochemical Processes and Biological Patterns in Salt Marshes.
National Science Foundation Workshop on Comparative Developmental Physiology (Glen Rose, TX, USA): The Future of Comparative Developmental Physiology.
American Society of Naturalists Annual Meeting (Banff, Canada): Research Challenges for the Naturalist.
- 2003 National Academy of Science-National Research Council Workshop: Using the Best Available Scientific Information in Fisheries (Washington, DC, USA).
- 2004 Society for Integrative and Comparative Biology Annual Meeting (New Orleans, LA, USA) Symposium: Selection Experiments as Tools for Analyzing Complex Traits.
William R. and Lenore Mote Symposium in Fisheries Ecology (Sarasota, FL USA): The Good, The Bad, and The Ugly in Sustainable Fisheries.
- 2005 William H. and Lucyle T. Werkmeister Conference (Tallahassee, FL USA): Form and Function in Biology.
American Society of Naturalists Annual Meeting (Fairbanks, AK): Presidential Address.
- 2008 European Life Span Consortium Annual Meeting (Leiden, The Netherlands): Plenary Address.

Sixth European Congress of Biogerontology (Noorwijkerhout, The Netherlands): Closing Keynote Address.
- 2009 Southeast Regional Society for Developmental Biology Annual Meeting (Birmingham, AL, USA): Plenary Education Address.
- 2011 American Society of Naturalists Vice-Presidential Symposium (Norman, OK, USA): A Critical Look at Reciprocity in Ecology and Evolution.
William R. and Lenore Mote Symposium in Fisheries Ecology (Sarasota, FL, USA): Species Interactions in Marine Communities: The Invisible Fabric of Nature.
Florida Center for Research in STEM Conference (Sandestin, FL): Keynote Address.

- 2012 Florida Center for Research in STEM Conference (St. Petersburg, FL): Special Invited Address.
- 2013 Ecological Society of America Annual Meeting (Minneapolis, MN, USA) Symposium: Is The Interaction of Evolutionary and Ecological Dynamics Widespread or A Special Case? (R. D. Bassar, D. N. Reznick, JT).
- Ecological Society of America Annual Meeting (Minneapolis, MN, USA) Symposium: Is The Interaction of Evolutionary and Ecological Dynamics Widespread or A Special Case? (JT, D. Reznick).
- 2015 Ecological Society of America Annual Meeting (Baltimore, MD, USA) Symposium: Enhancing Ecological Research with iDigBio Biological Specimen Data (J. A. Landy, JT, Chris Menz, Daniel Goldberg).
- Acoustic Society of America Autumn Meeting (Jacksonville, FL, USA): Luncheon Keynote Address.
- 2016 Southeastern Ecology and Evolution Conference (Tallahassee, FL, USA): Keynote Address.
- Ecology and Evolutionary Ethology of Fishes, 40th Biennial Meeting (Tallahassee, FL): Keynote Address.
- Workshop on Fitness, Selection, and Adaptation, Ecole Normale Supérieure (Paris, France): Forty Years in Pursuit of Fitness (with D. Reznick, two presentations).
- 2017 Society for Integrative and Comparative Biology Annual Meeting (New Orleans, LA): Symposium: Molecular and Neuroendocrine Approaches to Understanding Trade-Offs: Food, Sex, Aggression, Stress, and Longevity (E. Crespi, JT).
- 2018 Second Joint Congress on Evolutionary Biology (Montpellier, France): Symposium: Towards a Unified Biology of Populations: Integrating Ecology, Evolution, and Demography (JT, D. Reznick).
- American Institute of Biological Sciences Meeting (Washington, DC): Workshop: Next Gen International Biology.
- 2019 Society for the Study of Evolution (Providence, RI): Panel Discussion: Engaging in Science Policy.
- 2020 American Association for the Advancement of Science Annual Meeting (Seattle, WA): Symposium: What's Past is Prologue: Natural History Collections and Biodiversity's Future (co-organizer and speaker).
- Society for Evolutionary Demography Annual Meeting (Roros, Norway): Keynote Address.

CONTRIBUTED PAPERS (INCLUDING PUBLISHED ABSTRACTS AND POSTERS)

- 1977 Evolutionary Aspects of Frog Communities. Southeastern Ecological Genetics Group. Skidaway, Georgia.
- 1978 The Genetic Factor in Interspecific Competition Among Tadpoles. Ecological Society of America. Athens, Georgia.
- Quantitative Genetics of Growth and Development in Pseudacris triseriata. Southeastern Ecological Genetics Group. Clemson, South Carolina
- 1979 Ecological Genetics of Larval Development in Hyla gratiosa.

Southeastern Ecological Genetics Group. Beaufort, North Carolina.

- 1980 Ecological Genetics of Development in Hyla gratiosa: Larval Growth Rate versus Size at Metamorphosis. Society for the Study of Evolution. Tucson, Arizona.
- 1981 A Method for the Statistical Analysis of Time-Energy Budgets. Ecological Society of America. Bloomington, Indiana.
- 1982 Size at Metamorphosis in Amphibians: Test of a Model Based on Intraspecific Competition. Association of Southeastern Biologists. Richmond, Kentucky.
- Comparative Demography of Populations of Amianthium muscaetoxicum. Association of Southeastern Biologists. Richmond, Kentucky.
- Ecological Genetics of Anuran Development Patterns: Sibship-Environment Interactions. Society for the Study of Evolution. Stony Brook, New York.
- 1983 Temperature Mediated Growth Rates in the Larvae of Two Microsympatric Ambystoma species. American Society of Ichthyologists and Herpetologists. Tallahassee, Florida (JT, W. H. Keen, J. Juilianna).
- Variation in Fecundity and Its Relationship to Body Size in Heterandria formosa. American Society of Ichthyologists and Herpetologists. Tallahassee, Florida (R. T. Cheong, S. Henrich, J. Farr, JT).
- 1984 Variation in the Components of Seed Production in Amianthium muscaetoxicum, a Perennial Lily. Botanical Society of America. Grand Forks, Colorado.
- Genetic Analyses of Growth and Development Patterns in Larval Anurans. American Society of Ichthyologists and Herpetologists. Norman, Oklahoma.
- 1985 Patterns of Environmentally Induced Mortality and Natural Selection in the Sailfin Molly (Poecilia latipinna). American Society of Ichthyologists and Herpetologists. Knoxville, Tennessee (J. C. Trexler, JT).
- Mechanisms of Heterochrony in Frogs. American Society of Zoologists. Baltimore, Maryland (S. Emerson, JT).
- 1986 Systematic Implications of Heterochrony in Frogs. American Society of Ichthyologists and Herpetologists. Victoria, British Columbia (S. Emerson, JT).
- Interactions Between Factors That Affect Vital Rates and the Impact on Population Analysis and Prediction. Fourth International Congress of Ecology and Ecological Society of America. Syracuse, New York.
- 1987 Body Size and Behavioral Variation in the Sailfin Molly, Poecilia latipinna. American Society of Ichthyologists and Herpetologists. Albany, New York (JT, J. A. Farr, J. C. Trexler).

- 1987 Natural Selection and Maintenance of Male Size Variation in Poecilia latipinna (Pisces: Poeciliidae). European Society for Evolutionary Biology, Inaugural Congress. Basel, Switzerland.
- 1988 Life History Polymorphism in Male Sailfin Mollies, Poecilia latipinna (Pisces: Poeciliidae). Society for the Study of Evolution. Asilomar, California.
- 1989 Interaction of pH, Density, and Priority Effects on the Survivorship and Growth of Two Hyliid Tadpoles. Ecological Society of America. Toronto, Canada (S. C. Warner, W. A. Dunson, JT).
- 1990 Size-Selective Predation of Sailfin Mollies by Wading Birds. American Society of Ichthyologists and Herpetologists. Charleston, South Carolina.
- Patterns of Size-selective Mortality with and without Predators in Sailfin Mollies. Fourth International Congress of Systematic and Evolutionary Biology and Society for the Study of Evolution. Washington, DC (J. C. Trexler, JT, M. McManus, and R. Tempe).
- Threshold Effects and the Evolution of Functional Complexes. Fourth International Congress of Systematic and Evolutionary Biology and Society for the Study of Evolution. Washington, DC (S. Emerson, M. A. R. Koehl, JT).
- 1991 Patterns of Multiple Paternity in the Sailfin Molly (Pisces, Poeciliidae). Society for the Study of Evolution. Hilo, Hawaii (J. C. Trexler, A. Dinep, JT).
- Effects of pH Variation on Interspecific Competition Between Larvae of Two Hyliid Frogs. Ecological Society of America. San Antonio, Texas (S. C. Warner, JT, W. A. Dunson).
- 1992 Comparative Developmental Responses to Temperature and Resource-Level Fluctuations in Larvae of Two Closely Related Species of Treefrogs. Society for the Study of Evolution, Berkeley, CA (J. Leips, JT).
- Variation in Norms of Reaction for Life-History Traits among Clones of the Unisexual Fish Poecilia formosa. Society for the Study of Evolution, Berkeley, CA (JT, J. C. Trexler, C. Johnson).
- 1993 Size-Dependent Mating Activity and Sexual behavior in a Natural Population of the Sailfin Molly (Poecilia latipinna). American Society of Ichthyologists and Herpetologists, Austin, TX.
- Phenotypic Plasticity in Mollies: Regional Comparisons. American Society of Ichthyologists and Herpetologists, Austin, TX (J. C. Trexler, JT).
- Sexual Behavior and Female Choice in Three Populations of the Sailfin Molly (Poecilia latipinna). American Society of Ichthyologists and Herpetologists, Austin, TX (M. Ptacek, JT).
- Geographic Variation in Phenotypic Plasticity in the Sailfin Molly (Poecilia latipinna): Field Experiments. Society for the Study of Evolution, Park City, UT (J. C. Trexler, JT).

- Comparative Phenotypic Plasticity in the Sailfin Molly (Poecilia latipinna) between Populations from Distinct Ecological Regions. Society for the study of Evolution, Park City, UT (JT, J. C. Trexler).
- 1996 Genetic Analysis of Life-History Trait Variation in Two Populations of Sailfin Molly, Poecilia latipinna (Pisces: Poeciliidae). Society for the Study of Evolution, St. Louis, MO (JT, N. Martin, C. Johnson).
- The Influence of Population Density and Genotype on the Expression of Life-History Traits in the Least Killifish, Heterandria formosa. Society for the Study of Evolution, St. Louis, MO (J. Leips, JT).
- 1997 Potential Adaptive Variation in the Sex-Ratio of the Least Killifish, Heterandria formosa. Society for the Study of Evolution, Boulder, CO (J. Leips, JT).
- Secondary Sex Character Differentiation in Male Sailfin Mollies (Poecilia latipinna). Society for the Study of Evolution, Boulder, CO (JT, M. Ptacek, N. Martin).
- 1998 Adaptive Variation in Offspring Size. Society for the Study of Evolution, Vancouver, BC, Canada (J. Leips, JT).
- Application of Genetic Principles in Evaluating Marine Reserves as a Tool for Reef Fishery Management. Mote Symposium in Marine Reserves and Essential Fish Habitat, Sarasota, FL (J.C. Trexler, JT).
- 1999 Direct and Correlated Responses to Artificial Selection on Acute Thermal Stress Tolerance in a Livebearing Fish. Society for the Study of Evolution, Madison, WI (C.F. Baer, JT).
- Demographic Effects of a Color Polymorphism in Male Mosquitofish (Gambusia holbrooki). Society for the Study of Evolution, Madison, WI (L. Horth, JT).
- 2000 Genetic Effects on Population Dynamics in Experimental Populations. British Ecological Society and Ecological Society of America, Orlando, FL (L. Horth, JT).
- Frequency and Density-Dependent Selection on Marbled Melanic Males in Experimental Populations of Mosquitofish. Society for Study of Evolution, Bloomington, IN (L. Horth, JT).
- 2003 Numerical Dynamics and Adaptation to Water Chemistry in the Least Killifish, Heterandria formosa. Society for the Study of Evolution, Chico, CA (JT, J. Leips).
- Multiple Paternity and Population Genetic Structure in Natural Populations of a Live-bearing Fish. Society for the Study of Evolution, Chico, CA (S. Soucy, JT).
- 2004 The Evolution of Color Patterns in the Bluefin Killifish. Society for the Study of Evolution, Fort Collins, CO (R. C. Fuller, JT).
- Population Differences in Postfertilization Offspring Provisioning in the Least Killifish. Society for the Study of Evolution, Fort Collins, CO (M. Schrader, JT).

- The Effects of Female Mate Choice and Male Competition on Mating Success in the Bluefin Killifish. Society for the Study of Evolution, Fort Collins, CO (K. McGhee, R. C. Fuller, JT).
- 2007 A Comparative Analysis of Parental Care and Life History in Birds. International Behavioral Ecology Society, Paris (R. E. Hale, JT).
- 2008 Parent-Offspring Conflict and the Evolution of Reproductive Isolation in a Poeciliid Fish. Society for the Study of Evolution, Minneapolis, MN (M. Schrader, JT).
- Does Developmental Rate Affect Optimal Maternal Investment? Matrotrophy Explored With a Dynamic Model. Society for the Study of Evolution, Minneapolis, MN (R. E. Hale, JT).
- Behavioral phenotypes and sexual selection in bluefin killifish. International Society for Behavioral Ecology, Ithaca, NY (K. McGhee, JT).
- 2009 Which Factors Are Effective in the Effective Population Size of the Gag Grouper? Society for the Study of Evolution, Boise, ID (N. K. Jue, E. Simmons, M. Palczewski, JT).
- What Can Patterns of Effective Population Size Tell Us about Real Populations? Gulf Caribbean Fisheries Institute, Caracas, Venezuela (N. K. Jue, E. Simmons, M. Palczewski, JT).
- 2010 Numerical Dynamics As An Agent of Selection: Experimental Evolution in the Least Killifish. Society for the Study of Evolution, Portland, OR.
- Do Mating System Differences Predict Reproductive Incompatibilities Between Populations of a Placental Fish? Society for the Study of Evolution, Portland, OR (M. Schrader, JT).
- Do Consistent Behavioral Differences Among Individuals Reflect Heritable Genetic Variation? Society for the Study of Evolution, Portland, OR (K. McGhee, JT).
- Abiotic Factors Affect Life Histories in Least Killifish, *Heterandria formosa*, But Not How Expected. Society for the Study of Evolution, Portland, OR (R. E. Hale, JT).
- 2011 Shape Variation and Its Ecological Correlates in the Least Killifish, *Heterandria formosa*. Society for the Study of Evolution, Norman, OK (J. A. Landy, JT, M. Schrader).
- 2012 "Give me the keys!" Dependent Kids Drive the Evolution of Parental Care. First Joint Congress on Evolutionary Biology, Ottawa, Canada (R. E. Hale, JT).
- Conflict, Coadaptation, and The Evolution of Reproductive Incompatibilities in a Placental Fish. First Joint Congress on Evolutionary Biology, Ottawa, Canada (M. Schrader, JT).
- 2013 Differences in Size at Birth provide a systematic basis for isolation asymmetry between populations of a placental fish. Society for the Study of Evolution, Park City, UT (M. Schrader, R. C. Fuller, JT).
- Testing Biogeographic Hypotheses of Plio-Pleistocene History and

- Diversification Along the North American Gulf-Atlantic Coastal Plain in Least Killifish (*Heterandria formosa*). Society for the Study of Evolution, Park City, UT (J.C. Bagley, M. Sandel, J. Wooten, JT, M. L. Lozano-Vilano, J. B. Johnson).
- Different Norms of Reaction in Two Populations of the Least Killifish, *Heterandria formosa*: Effects of Temperature and Habitat on Body Morphology (J. A. Landy, JT).
- 2014 Strong interspecific interactions help drive the evolution of life histories in the Trinidadian guppy. Society for the Study of Evolution, Raleigh, NC (R. Bassar, B. Lamphere, A. Lopez-Sepulcre, JT, David Reznick).
- Testing adaptive plasticity: are the effects of social density on offspring size consistent over multiple food regimes in *Heterandria formosa*? Society for the Study of Evolution, Raleigh, NC (D. Hoover, JT).
- Role of indirect genetic effects in modifying behavior and maintaining a male color polymorphism in *Gambusia holbrooki*. Animal Behavior Society, Princeton, NJ (B. Kraft, JT, K. Hughes).
- Different norms of reaction in two populations of the Least Killifish. American Genetical Association, Seattle, WA (J. A. Landy, JT).
- 2015 Variation in plastic responses to different selective agents in the Least Killifish. Society for Integrative and Comparative Biology, West Palm Beach, FL (J. Ramirez, E. Culbreth, E. Crespi, JT).
- How males shape up: exploring the evolution of male morphology in a poeciliid fish. Society for the Study of Evolution, Guaruja, Brazil (J. A. Landy, JT).
- Under pressure: behavioral and physiological response to predation risk in the Least Killifish. Society for the Study of Evolution, Guaruja, Brazil (E. Culbreth, JT).
- 2016 The morphometric and phylogenetic basis of ornamentation in the livebearer genus *Poecilia*. Society for the Study of Evolution, Austin, TX (D. Goldberg, J. A. Landy, JT, D. Reznick).
- The evolution of sexual conflict in the Trinidadian guppy. Society for the Study of Evolution, Austin, TX (J. A. Landy, JT, D. Reznick, and A. Lopez-Sepulcre).
- Catastrophic selection on body shape of Trinidadian guppies. Society for the Study of Evolution, Austin, TX (J. A. Landy, JT).
- Predicting coexistence in two-species models with continuous ontogenetic niche shifts. British Ecological Society, Liverpool, UK (R. K. Bassar, JT, T. Coulson).
- 2017 Maternal effects on reproduction and fitness in the Least Killifish, *Heterandria formosa*. Society for the Study of Evolution, Portland, OR (S. Levell, JT, S. Bedgood).
- Eco-evolutionary feedbacks predict the time course of rapid life-history evolution. Society for the Study of Evolution, Portland,

- OR (JT, C. Handelsman, C. Ghalambor, R. Bassar, D. Reznick).
- The evolution of coexistence: reciprocal adaptation promotes the assembly of a simple community. Society for the Study of Evolution, Portland, OR (R. Bassar, JT, D. Reznick).
- More than skin deep: variation in behavior as a result of eumelanin-based coloration in the eastern mosquitofish. Society for the Study of Evolution, Portland, OR (E. Humphrey, JT, K. Hughes).
- 2018 Thinking realistically about density dependence. American Society of Naturalists, Asilomar, CA.
- Variation in behavior as a result of eumelanin coloration in the Eastern Mosquitofish. Animal Behavior Society, Milwaukee, WI (E. Humphrey, K. Hughes, JT).
- The role of rapid evolution in species coexistence. Second Joint Congress on Evolutionary Biology, Montpellier, France (J. Anaya-Rojas, R. Prather, J. Goldberg, R. Bassar, T. Coulson, D. Reznick, JT).
- Conflict and the evolution of sexual dimorphism in the Trinidadian guppy. Second Joint Congress on Evolutionary Biology, Montpellier, France (A. Landy, JT, R. Bassar, D. Reznick, and P. Bentzen).
- 2018 Can you trust what you see? Socially-cued anticipatory plasticity and the emergence of the social ratchet. Second Joint Congress on Evolutionary Biology, Montpellier, France (E. Lange, K. Hughes, JT, L. M'Gonigle).
- 2019 The sources of fitness in experimental guppy populations. Society for the Study of Evolution, Providence, RI, (JT, R. Bassar, P. Bentzen, J. A. Landy, and D. Reznick).
- Conflict and the evolution of sexual dimorphism in the Trinidadian Guppy. Society for the Study of Evolution, Providence, RI (J. A. Landy, JT).
- Can you trust what you see? How short-term costs to plasticity promote its long-term evolution when social environments vary. Society for the Study of Evolution Annual Meeting, Providence, RI (E. Lange, JT, K. Hughes, and L. M'Gonigle).
- Widespread regional bias in ecological and evolutionary studies. Ecological Society of America Annual Meeting, Louisville, KY (Z. Culumber, J. Anaya-Rojas, W. W. Booker, A. Hooks, E. C. Lange, B. Pluer, N. Ramirez-Bullon, JT).
- 2020 Selection and evolution in experimental populations of Trinidadian guppies. American Society of Naturalists Winter Meeting, Asilomar, CA (D. Reznick, JT).

PUBLICATIONS

RESEARCH PAPERS IN REFEREED JOURNALS

- 1977 Seasonal foraging in a Downy Woodpecker population. Condor 79:

371-375.

- 1977 Competition and spacing in plant communities: the Arizona upland association. *J. Ecol.* 65:587-595 (R. I. Yeaton, JT, E. Gilinsky).
- 1980 Phenotypic variation and the outcome of interspecific competition in hylid tadpoles. *Evolution* 34:40-50.
- 1980 A morphological approach to the study of bird communities. *Auk* 97:321-338 (R. E. Ricklefs, JT).
- 1980 Genetic variation for larval specific growth rate in the frog Hyla gratiosa. *Growth* 44:167-181.
- 1980 A comparison of the karyotypes of the frogs Rana areolata, Rana sphenoccephala, and Rana pipiens. *Herpetologica* 36:297-300 (M. F. Corcoran, JT).
- 1981 The effect of staining on the growth of Hyla gratiosa tadpoles. *Copeia* 1981:193-196.
- 1981 Control of larval growth variation in a population of Pseudacris triseriata (Anura: Hylidae). *Evolution* 35:423-432.
- 1981 A key to the tadpoles of North Carolina. *Brimleyana* 6:119-127.
- 1982 A method for the statistical analysis of time-energy budgets. *Ecology* 63:19-25.
- 1983 The influence of food quality and quantity on the early larval growth of two anuran species. *Copeia* 1983:238-242 (K. F. Steinwascher, JT).
- 1983 Variation in growth and survival of Hyla gratiosa larvae in experimental enclosures. *Copeia* 1983:232-237.
- 1983 Variation in development patterns of larval anurans in temporary ponds. I. Persistent variation within a Hyla gratiosa population. *Evolution* 37:496-512.
- 1983 A morphological comparison of island and mainland assemblages of neotropical birds. *Oikos* 41:434-442 (JT, R. E. Ricklefs).
- 1984 Anuran size at metamorphosis: experimental test of a model based on intraspecific competition. *Ecology* 65:1155-1160.
- 1984 Variation in fecundity and its relationship to body size in a population of the least killifish, Heterandria formosa (Pisces: Poeciliidae). *Copeia* 1984:720-726 (R. T. Cheong, S. Henrich, J. A. Farr, JT).
- 1984 Larval growth in three sympatric Ambystoma salamander species: species differences and effects of temperature. *Canadian J. Zool.* 62:1043-1047 (W. H. Keen, JT, J. Juilianna).
- 1984 Investigations on the control of the color polymorphism in Pseudacris ornata. *Herpetologica* 40:252-257 (JT, J. C. Trexler).
- 1984 Breeding system, pollination, and pollinator limitation in a perennial herb, Amianthium muscaetoxicum (Liliaceae). *Amer.*

J. Botany 71:941-947.

- 1985 The role of relative body size in a predatory-prey relationship between dragonfly naiads and larval anurans. *Oikos* 45:59-65 (JT, W. H. Keen, J. Juilianna).
- 1985 The effects of multiple factors on viability selection in Hyla gratiosa tadpoles. *Evolution* 39:1987-1099 (JT, W. H. Keen, J. Juilianna).
- 1986 Behavioural allometry and interdemic variation in sexual Behaviour of the sailfin molly, Poecilia latipinna (Pisces: Poeciliidae). *Animal Behaviour* 34:497-509 (J. A. Farr, JT, J. C. Trexler).
- 1986 Fertility advertisement by female sailfin mollies, Poecilia latipinna (Pisces: Poeciliidae). *Copeia* 1986:467-472 (J. A. Farr, JT).
- 1986 Size-limited predation on larval Rana areolata (Anura: Ranidae) by two species of backswimmer (Hemiptera: Notonectidae). *Herpetologica* 42:171-174 (J. T. Cronin, JT).
- 1986 Examining the relationship between functional gender and gender specialization in hermaphrodite plants. *American Naturalist* 128:409-415 (L. Robbins, JT).
- 1986 Interactions among factors affecting growth, development and survival in experimental populations of Bufo terrestris (Anura: Bufonidae). *Oecologia* 69:110-116 (JT, J. C. Trexler).
- 1986 Some problems in estimating the intensity of selection through fertility differences in natural and experimental populations. *Evolution* 40:786-790 (JT, S. Henrich).
- 1986 Measuring the cost of reproduction: A comment on papers by Bell 1984a, b). *Evolution* 40:1338-1344 (D. Reznick, E. Perry, JT).
- 1987 A quantitative genetic analysis of larval life history traits in Hyla crucifer. *Evolution* 41:145-156 (JT, S. B. Emerson, M. Blouin).
- 1987 Testing theories of clutch overlap with the reproductive ecology of Heterandria formosa. *Ecology* 68:611-623 (JT, J. A. Farr, S. Henrich, R. T. Cheong).
- 1987 Concordance of eco-morphological relationships in three assemblages of passerine birds. *American Naturalist* 129:347-364 (D. B. Miles, R. E. Ricklefs, JT).
- 1988 Evaluating a hypothesis about heterochrony: larval life history traits and juvenile hindlimb morphology in Hyla crucifer. *Evolution* 42:68-78 (S. B. Emerson, JT, M. Blouin).
- 1988 How can the functional response best be determined? *Oecologia* 76:206-214 (J. C. Trexler, C. McCulloch, JT).
- 1988 The effects of the mating system on progeny performance in Hyla crucifer (Anura, Hylidae). *Evolution* 42:784-794 (B. D. Woodward, JT, S. Mitchell).

- 1988 Genetic variation in reproductive traits in a population of Heterandria formosa (Pisces: Poeciliidae). J. Evol. Biol. 1:275-280 (S. Henrich, JT).
- 1988 Seasonal pollen flow and progeny diversity in Amianthium muscaetoxicum: ecological potential for multiple mating in a self-incompatible, hermaphroditic perennial. Oecologia 76:19-24 (M. Palmer, JT, J. Antonovics).
- 1989 The effect of ontogenetic experience on variation in growth, maturation, and sexual behavior in the sailfin molly, Poecilia latipinna (Pisces: Poeciliidae). Environmental Biology of Fishes 26:39-48 (J. A. Farr, JT).
- 1989 Temporal mechanisms influencing gender expression and pollen flow within a self-incompatible perennial, Amianthium muscaetoxicum (Liliaceae). Oecologia 78:231-236 (M. Palmer, JT, J. Antonovics).
- 1989 The effects of pollination distance on seed production in three populations of Amianthium muscaetoxicum (Liliaceae). Oecologia 79:260-264 (A. M. Redmond, L. Robbins, JT).
- 1989 Environmental effects on adult growth patterns in the male sailfin molly (Poecilia latipinna). Environmental Biology of Fishes 26:119-127 (JT, J. A. Farr, M. McManus, J. C. Trexler).
- 1989 Social context and courtship flexibility in male sailfin mollies, Poecilia latipinna (Pisces: Poeciliidae). Animal Behaviour 38:1001-1011 (JT, B. D. Woodward).
- 1990 Multiple paternity and its correlates in female Poecilia latipinna (Pisces, Poeciliidae). Copeia 1990:722-729 (JT, J. C. Trexler, M. M. Mulvey).
- 1990 Phenotypic plasticity in the sailfin molly, Poecilia latipinna (Pisces: Poeciliidae). I. Field experiment. Evolution 44:143-156 (J. C. Trexler, JT).
- 1990 Phenotypic plasticity in the sailfin molly, Poecilia latipinna (Pisces: Poeciliidae). II. Laboratory experiment. Evolution 44:157-167 (J. C. Trexler, JT, M. Trexler).
- 1991 Paternal effects on juvenile growth and survival in spring peepers (Hyla crucifer). Evol. Ecol. 5:40-51 (B. D. Woodward, JT).
- 1991 Functional complexes and additivity in performance: a test case with flying frogs. Evolution 44:2153-2157 (S. B. Emerson, JT, M. A. R. Koehl).
- 1991 The role of abiotic factors in community organization. Am. Nat. 138:1067-1091 (W. A. Dunson, JT).
- 1991 Poecilia mexicana is the recent female parent of the unisexual fish P. formosa. Evolution 45:1530-1533 (J. C. Avise, J. C. Trexler, JT, W. S. Nelson).
- 1991 Interaction of pH, density, and priority effects on the survivorship and growth of two species of hyliid tadpoles.

- Oecologia 88:331-339 (S. C. Warner, W. A. Dunson, JT).
- 1992 Does the spatial scale of experimentation matter? A test with tadpoles and dragonflies. Ecology 73:2237-2243 (C. Gascon, JT).
- 1992 On the use of constraints in evolutionary biology and some allergic reactions to them. Functional Ecology 61:361-363 (N. Perrin, JT).
- 1992 Effects of habitat and body size on mortality rates of Poecilia latipinna. Ecology 73:2224-2236 (J. C. Trexler, JT, M. McManus).
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- 2009 Mimicry. Pp. 735-739 in M. Ruse and J. Travis, eds.,
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Press, Cambridge.
- 2009 Natural history. Pp. 754-755 in M. Ruse and J. Travis, eds.,
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Press, Cambridge.
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Press, Cambridge.
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eds., Evolution: The First Four Billion Years. Harvard
University Press, Cambridge.
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Press, Cambridge.
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Press, Cambridge (M. Ruse, JT).
- 2009 Seed Plants. Pp. 847-852 in M. Ruse and J. Travis, eds.,
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Press, Cambridge.
- 2009 Janis Antonovics. Pp. 419-420 in M. Ruse and J. Travis, eds.,
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Press, Cambridge.
- 2009 George Bartholomew and Knut Schmidt-Nielsen. Pp. 443-444 in
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- 2009 Deborah Charlesworth. Pp. 480-481 in M. Ruse and J. Travis, eds.,
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Press, Cambridge (JT, David Houle).
- 2009 Warren Ewens. Pp. 572-574 in M. Ruse and J. Travis, eds.,
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Press, Cambridge.
- 2009 Joseph Felsenstein. Pp. 578-579 in M. Ruse and J. Travis, eds.,
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Press, Cambridge.
- 2009 John Gillespie. Pp. 607-608 in M. Ruse and J. Travis, eds.,
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- 2009 B. Rosemary and Peter R. Grant. Pp. 615-616 in M. Ruse and
J. Travis, eds., Evolution: The First Four Billion Years.

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- 2009 Tomoko Ohta. Pp. 767-768 in M. Ruse and J. Travis, eds.,
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Press, Cambridge.
- 2009 C. H. Waddington. Pp. 898-900 in M. Ruse and J. Travis, eds.,
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Press, Cambridge.
- 2009 George Williams. Pp. 921-923 in M. Ruse and J. Travis, eds.,
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- 2009 Alexei Yablokov. Pp. 930-931 in M. Ruse and J. Travis, eds.,
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- 2009 Animal Species and Evolution by A. S. Cain. Pp. 417-418 in
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- 2009 Phenotypic plasticity. Pp. 65-71 in S. Levin, ed., The Princeton
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- 2010 Refining the biologist's sense of identity. Bioscience 60:3.
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- 2010 Now is the time for action: transitions and tipping points in
complex environmental systems. Environment 52:38-45 (S. G.
Stafford and 15 others including JT, listed alphabetically).
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natural and social sciences. EOS 91:143-144 (T. E. Jordan and
11 others including JT, listed alphabetically).
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- 2013 Mimicry and camouflage: Part two. Pp. 336-339 in M. Ruse, ed.,
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Cambridge Univ. Press, Cambridge.
- 2013 Evolution in population parameters: density-dependent selection or
density-dependent fitness? Am. Nat. 181:S9-S20 (JT, J. Leips,
F. H. Rodd).

- 2014 Opportunities abound: a call for leadership in the life sciences. *BioScience* 65:14-20 (S. Potter, S. G. Stafford, JT, J. P. Collins, S. T. A. Pickett, C. B. Fenster, E. S. Nagy, and M. Poston).
- 2014 Do eco-evo feedbacks help us understand nature? Answers from studies of the Trinidadian guppy. *Advances in Ecological Research* 50:1-40 (JT, D. Reznick, R. D. Bassar, A. Lopez-Sepulcre, R. Ferriere, T. Coulson).
- 2016 Evolutionary genetics, history of. Pp. 48-55 in R. Kliman, ed., *Encyclopedia of Evolutionary Biology*, Vol. 2. Academic Press, Oxford (JT, C. F. Baer).
- 2017 Evolution: Differences can hold populations together. *Nature* 546:218-219 (D. Reznick, JT).
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- 2018 Natural selection: How selection on behavior interacts with selection on morphology. *Current Biology* 28:R882-R884 (JT, D. Reznick).
- 2019 From low to high gear: there has been a paradigm shift in our understanding of evolution. *Ecology Letters* 22:233-244 (D. Reznick, J. Losos, JT).
- 2019 Experimental studies of evolution and eco-evo dynamics in guppies (*Poecilia reticulata*). *Ann. Rev. Ecol. Evol. Syst.* 50:14.1-14.20 (D. Reznick, JT).
- 2020 Where is natural history in ecological, evolutionary, and behavioral science? *American Naturalist* 196:1-8.

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- 1980 Theory of Population Genetics and Evolutionary Ecology: An Introduction (J. Roughgarden). *Evolution* 34:1032-1033. (H. M. Wilbur, JT)
- 1982 The Mathematical Theory of the Dynamics of Biological Populations. II (R. W. Hiorns and D. Cooke, eds.). *Ecology* 63:1196.
- 1984 Evolution and Genetics of Life Histories (H. Dingle and J. P. Hegmann, eds.). *Auk* 101:419-420.
- 1984 Population Biology: Retrospect and Prospect (C. E. King and P. S. Dawson, eds.). *Ecology* 65:667-668.
- 1986 The Statistics of Natural Selection (B. F. J. Manly). *Quart. Rev. Biology* 65:545-546.
- 1987 The Ecology and Natural History of Desert Lizards (E. R. Pianka). *Science* 235:492-493.
- 1988 Ecology and Evolution of Darwin's Finches (P. R. Grant). *J. Evol. Biol.* 1:281-283.

- 1990 Evolutionary Dynamics of a Natural Population: The Large Cactus Finch of the Galapagos (B. R. Grant and P. R. Grant). *Ecology* 71:1631-1632.
- 1991 Ecological Experiments: Purpose, Design and Execution (N. G. Hairston, Sr.). *Journal of Vegetation Science* 2:80-81.
- 1994 The Evolution of Life Histories (S. C. Stearns). *BioScience* 44:42-43.
- 1994 The Evolution of Life Histories (D. Roff). *J. Evol. Biol.* 7:116-118.
- 1994 Genes in Ecology (R. J. Berry, J. T. Crawford, and G. M. Hewitt, eds.). *Ecology* 75:1851-1852.
- 1998 Experiments in Ecology (A. J. Underwood). *Quart. Rev. Biology* 73:534-535.
- 2011 Evolution: The Extended Synthesis (M. Pigliucci and G. B. Müller, eds.). *Evolution* 65:1517-1520.
- 2016 Evolutionary Biology: Genome Evolution, Speciation, Coevolution, and Origin of Life (P. Pontarotti, ed.). *Quart. Rev. Biology* 91:84.
- 2021 Unsolved Problems in Ecology (A. Dobson, R. D. Holt, D. Tilman, eds.). *Quart. Rev. Biology* (in press).

EDITED VOLUMES

- 1993 Statistical Methods: An Upgrade for Ecologists. Special Features in Ecology, *Ecology* 74:1615-1676 (C. Potvin, JT). Collection of five papers that review recent developments in statistical methods likely to be of use to ecologists, with an introduction and literature review by the editors.
- 1996 Geographic Variation in Species Interactions. Vice-Presidential Symposium, *American Naturalist* 148:S1-S77. Collection of five papers that examine an underappreciated set of phenomena and point to new directions for ecological and evolutionary biological research.
- 1998 New Perspective on Marine Stock Enhancement. *Bull. Mar. Science* 62:303-714 (F.C. Coleman, C. P. Grimes, JT). Collection of 24 papers that examine marine stock enhancement in all of its aspects, from its effectiveness and economic value to its effects on natural populations and ecosystems.
- 2000 Marine Protected Areas and Essential Fish Habitat: A Critical Evaluation. *Bull. Mar. Science* 66:525-1009 (F.C. Coleman, JT). Collection of 27 papers that examine the issues surrounding marine reserves, from the goals motivation their establishment to the criteria for determining success and the economic analysis of establishing, maintaining, and protecting them.
- 2002 Targets, Thresholds, and the Burden of Proof. *Bull. Mar. Science* 70:397-790 (F. C. Coleman, JT). Collection of 22 papers that assess how well reference points like maximum sustainable yield (among others) reflect the health of stocks and how remedial management policies might restore stock health.

BOOKS

- 2009 *Evolution: The First Four Billion Years* (Michael Ruse, JT, eds.). An encyclopedia of evolution, featuring original essays by nearly 100 authors on all aspects of evolution, from the history of evolutionary thought and the tension between evolution and religion to current knowledge and thinking in evolutionary science from genome evolution to the evolution of development. Harvard University Press (Belknap Press of HUP), xii + 979pp.
- 2009 *Transitions and Tipping Points in Complex Environmental Systems*. Report by the National Science Foundation Advisory Committee for Environmental Research and Education. 56pp.
- 2016 *Gene Drives on the Horizon: Advancing Science, Navigating Uncertainty, and Aligning Research with Public Values* (National Academies of Sciences, Engineering, and Medicine). A report from the NASEM on the emerging science of gene drives and the issues surrounding the responsible conduct of research on gene drives. JT was one of 16 members of the NAS committee who prepared and wrote the report. The National Academies Press, xii + 217pp. doi: 10.17226/23405.
- 2019 *Evaluating the Taxonomic Status of the Mexican Gray Wolf and the Red Wolf* (National Academies of Science, Engineering, and Medicine). A report from the NASEM assessing the taxonomic status of two wolves whose prior status has been a source of controversy in their restoration. JT was the chair of the NASEM committee of 8 scientists who prepared and wrote the report. The National Academies Press, xiv + 90pp. doi:10.17226/25351.
- 2020 *A Research Strategy To Examine the Taxonomy of the Red Wolf* (National Academies of Science, Engineering, and Medicine). A report from the NASEM offering recommendations for future research to deepen understanding of the evolutionary history and current taxonomy of the red wolf. JT was the chair of the NASEM committee of 9 scientists who prepared and wrote the report. The National Academies Press, xiv + 138pp. doi:10.17226/25891.

GRADUATE STUDENTS

MASTERS STUDENTS

- Donald W. Hirsh, 1981 (co-directed with W. J. Platt)
Physiognomy and Spatial Patterns of a Beech-Magnolia Hammock in North Central Florida.
- Boris A. Fabres, 1982 (co-directed with R. W. Menzel)
Demersal Fish Potential of the Atlantic West Grounds, South America.
- Mary Davis, 1984 (co-directed with W. J. Platt)
Effects of Season of Burn on Flowering Phenologies in Longleaf Pine Forests.
- Mary Palmer, 1984 (University of Virginia)
The Potential for Outcrossing in Amianthium muscaetoxicum (Liliaceae).

- Sabine Henrich, 1985
Ecological Genetics of Reproductive Traits in Heterandria formosa
(Pisces: Poeciliidae).
- Louise E. Robbins, 1986
Effect of Inflorescence Size on Pollination Limitation in
Amiantium muscaetoxicum.
- Robert Allman (co-directed with C. Grimes), 1999
Recruitment and spawning phenology of gray snapper.
- Brian Storz (co-directed with S. Steppan), 2003
Development of Polyphenism in Spadefoot Toads.
- Sierra Lundstrom (degree expected Spring 2021)
Biogeography, hybridization, and species ranges in poeciliid fish

DOCTORAL STUDENTS

- Joel C. Trexler, 1986
Geographic Variation in Size in the Sailfin Molly, Poecilia latipinna.
- Sharon L. Forster-Blouin, 1989
Genetic and Environmental Components of Thermal Tolerance in the
Least Killifish, Heterandria formosa.
- Michael S. Blouin, 1989
Genetic and Environmental Correlates of Shape Variation in the
Green Treefrog, Hyla cinerea.
- Claude Gascon, 1990
The Relative Importance of Habitat Characteristics in the
Maintenance of a Larval Anuran Guild in the Tropics.
- Michael F. Antolin, 1990 (co-directed with D. Simberloff)
A Quantitative Genetic Study of Sex-ratio Variation in a
Parasitic Wasp, Muscidifurax raptor Girault and Sanders
(Hymenoptera: Pteromalidae).
- Mark W. Schwartz, 1990
Conserving Forest Diversity in Panhandle Florida: From
Landscapes to Populations.
- Felicia C. Coleman, 1991
The Association Between the Trematode Parasite Ascocotyle
pachycystis (Heterophyidae) and Its Piscine Host, the Sheepshead
Minnow, Cyprinodon variegatus (Cyprinodontidae) in North Florida
Salt Marshes.
- Michael G. McManus, 1993
Differential Resource Allocation in the Sailfin Molly, Poecilia
latipinna: Laboratory and Field Experiments.
- Jeffery Leips, 1997
Genetic Differentiation in Life History Traits: Influence on
Population Dynamics in the Least Killifish, Heterandria formosa.
- Charles F. Baer, 1998
Evolutionary Genetics of the Least Killifish.

Lisa A. Horth, 2001
Ecological Genetics of Melanism in Gambusia holbrooki.

Rebecca C. Fuller, 2003
Evolution of Visual Signaling System in the Bluefin Killifish.

Margaret S. Gunzburger, 2004
The Role of Predation in the Distribution of the Green Treefrog,
Hyla cinerea.

Douglas A. DeVries, 2005 (co-directed with C. Koenig)
Life History Transitions in Red Porgy.

Matthew Schrader, 2009
The Impact and Expression of Parent Offspring Conflict Over Pre-
Natal Investment in the Least Killifish.

Katie E. McGhee, 2009
Behavioral types and sexual selection in the bluefin killifish.

Nathaniel Jue, 2009
The role of larval dispersal in the population genetics and ecology
of gag, Mycteroperca microlepis, in the Gulf of Mexico.

Maria S. Adreani 2010 (co-directed with D. Levitan)
Mating and Sexual Selection in Simultaneous Hermaphrodites

Alexa Warwick, 2016 (co-directed with E. Lemmon)
Geographic variation among enclaves of the Pine Barrens treefrog

J. Alex Landy, 2018
How Males Shape Up: Adaptive Evolution of Morphological Shape in
poeciliid fishes

Eve Humphrey, 2019
Stress response and coloration as mediators of behavioral and
physiological variation

Ben Pluer, degree expected Spring 2023
Adaptive divergence in the microbiome of the Least Killifish

Sarah Kettelkamp, degree expected Spring 2022
Sexual conflict and the genetics of female resistance in *Drosophila*

Chace Holzheuser, degree expected Spring 2022 (co-directed with E.
Lemmon)
Conservation biology of the southern dusky salamander

Brian Moe, degree expected Spring 2022 (co-directed with C. Cotton)
Demography of demersal shark populations

POSTDOCTORAL ASSOCIATES AND SABBATICAL VISITORS (*)

* W. Hubert Keen (1982-1983)
James A. Farr (1983-1985)
Bruce D. Woodward (1985-1987)

* Norma Fowler (1987)

* William A. Dunson (1988)
Nicolas Perrin (1990-1991)
Margaret B. Ptacek (1992-1996)

- * Ross Alford (1992)
- F. Helen Rodd (1994-1996)
- Jean M. J. Richardson (1999-2000)
- Sheryl Soucy-Lubell (2001-2002)
- Angie Shelton (2002-2003)
- Paul Richards (2002-2003)
- Rebecca C. Fuller (2003-2005)
- Rebecca E. Hale (2007-2009)
- David Ferrell (2007-2009)
- Matthew Schrader (2009-2012)
- Joseph J. Apodaca (2010-2012)
- Pamela S. D. Macrae (2010-2013)
- Zach Culumber (2017-2018)
- Jaime Anaya-Rojas (2017-2019)

ADDITIONAL PUBLICATIONS FROM THE TRAVIS LABORATORY

(*designates papers in refereed journals)

- * Trexler, J. C. 1985. Variation in the extent of viviparity in the sailfin molly, Poecilia latipinna. Copeia 1985:999-1004.
- * Trexler, J. C. 1988. Hierarchical organization of genetic variation in the sailfin molly, Poecilia latipinna (Pisces, Poeciliidae). Evolution 42:1006-1017.
- Farr, J. A. 1989. Sexual selection and secondary sexual differentiation in the Poeciliidae: Determinants of male mating success and the evolution of female choice. In G. K. Meffe and F. F. Snelson, Jr., eds., Ecology and Evolution of Livebearing Fishes (Poeciliidae). Prentice-Hall, New York, pp. 91-124.
- Trexler, J. C. 1989. Phenotypic plasticity in poeciliid life histories. In G. K. Meffe and F. F. Snelson, Jr., eds., Ecology and Evolution of Livebearing Fishes (Poeciliidae). Prentice-Hall, New York, pp. 201-214.
- * Forster Blouin, S., and M. Blouin. 1988. Inbreeding avoidance behavior. Trends in Ecology and Evolution 3:230-233.
- * Henrich, S. 1988. Variation in offspring sizes of the poeciliid fish Heterandria formosa (Pisces: Poeciliidae) in relation to fitness. Oikos 51:13-18.
- * Antolin, M. F. 1989. Genetic considerations in the study of attack behavior in parasitoids with reference to Muscidifurax raptor (Hymenoptera: Pteromalidae). Florida Entomologist 72:15-32.
- * Blouin, M. 1989. Inheritance of a naturally occurring color polymorphism in the ornate chorus frog, Pseudacris ornata. Copeia 1989:1056-1059.
- * Blouin, M. 1989. Life history correlates of a color polymorphism in the ornate chorus frog, Pseudacris ornata. Copeia 1989:319-325.
- * Gascon, C. 1989. The tadpole of Atelopus pulcher Boulenger (Anura, Bufonidae) from Manaus, Amazonas. Revista Brasileira de Zoologia 6:235-239.
- * Gascon, C. 1989. Predator-prey size interaction in tropical ponds. Revista Brasileira de Zoologia 6:701-706.
- * Blouin, M.S. 1990. Evolution of palatability differences between closely

related treefrogs. J. Herpetology 24:309-311.

- * Blouin, M. S. 1991. Proximate developmental causes of limb length variation between Hyla cinerea and Hyla gratiosa (Anura: Hylidae). J. Morph. 209:305-310.
- * Blouin, M. S., and M. Loeb. 1991. Effects of environmentally induced development rate variation on head and limb morphology in the green treefrog, Hyla cinerea. American Naturalist 138:717-728.
- * Gascon, C. 1991. Breeding of Leptodactylus knudseni: response to rainfall variation. Copeia 1991:248-252.
- * Gascon, C. 1991. Population and community level analyses of species occurrences of central Amazonian rainforest tadpoles. Ecology 72:1731-1746.
- * Blouin, M. 1992. Comparing bivariate reaction norms among species: time and size at metamorphosis in three species of Hyla (Anura: Hylidae). Oecologia 90:288-293.
- * Blouin, M. 1992. Genetic correlations among morphometric traits and rates of growth and differentiation in the green tree frog, Hyla cinerea. Evolution 46:735-744.
- * Gascon, C. 1992. Spatial distribution of Osteocephalus taurinus and Pipa arrabali in a central Amazonian forest. Copeia 1992:894-897.
- * Gascon, C. 1992. Aquatic predators and tadpole prey at a central Amazonian site: field data and experimental manipulations. Ecology 73:971-980.
- * Gascon, C. 1992. The effect of reproductive phenology on larval performance traits in a three-species assemblage of central Amazonian tadpoles. Oikos 65:307-313.
- * Perrin, N. 1992. Optimal resource allocation and the marginal value of organs. Am. Nat. 139:1344-1369.
- * Antolin, M. F. 1992. Sex ratio variation in a parasitic wasp. I. Reaction norms. Evolution 46:1496-1510.
- * Antolin, M. F. 1992. Sex ratio variation in a parasitic wasp. II. Diallel cross. Evolution 46:1511-1524.
- * Antolin, M. F. 1992. Genetics of biased sex ratios in subdivided populations: models, assumptions, and evidence. Oxford Surv. Evol. Biol. 9:239-281.
- * Gascon, C. 1993. Breeding-habitat use by primary-rainforest frog species at forest edge. Biodiversity and Conservation 2:38-44.
- * Coleman, F. C. 1993. Morphological and physiological consequences of parasites encysted in the bulbus anterosus of an estuarine fish, the sheepshead minnow, Cyprinodon variegatus. J. Parasitol. 79:247-254.
- * Schwartz, M. W. 1994. Natural distribution and abundance of forest species and communities in northern Florida. Ecology 75:687-705.

- * Gascon, C. 1994. Habitat effects on tropical larval anuran fitness in the absence of direct effects of predation and competition. *Ecology* 76:2222-2229.
- * Baer, C. F. 1998. Species-wide population structure in a Southeastern US freshwater fish, Heterandria formosa: gene flow and biogeography. *Evolution* 52:183-193.
- * Ptacek, M. 1998. Interspecific mate choice in mollies. *Anim. Behavior* 56:1145-1154.
- * Baer, C. F. 1998. Population structure in a southeastern US freshwater fish, Heterandria formosa II: Gene flow and biogeography within the St. Johns River drainage. *Heredity* 81:404-411.
- * Ptacek, M., and Breden, F. 1998. Phylogenetic relationships among the mollies (Poeciliidae: Poecilia: Mollienesia) based on mitochondrial DNA sequences. *J. Fish. Biology* 53A:64-81.
- * Breden, F., Ptacek, M. B., Rashed, M., Taphorn, D., and de Figueiredo, C. A. 1999. Molecular phylogeny of a livebearing fish genus Poecilia (Poeciliidae: Cyprinodontiformes). *Mol. Phylog. Ecol.* 12:95-104.
- * Baer, C. F. 1999. Among-locus variation in F_{ST} : fish allozymes, and the Lewontin-Krakauer test revisited. *Genetics* 152:653-659.
- * Fuller, R. C. 2001. Patterns in male breeding behaviors in the bluefin killifish, Lucania goodei: A field study (Cyprinodontiformes: Fundulidae). *Copeia* 2001:823-829.
- * Fuller, R. C. 2002. Lighting environment predicts relative abundance of male color morphs in bluefin killifish populations. *Proc. R. Soc. London B* 269:1457-1465.
- * Allman, R. A., and C. B. Grimes. 2002. Temporal and spatial dynamics of spawning, settlement, and growth of gray snapper (Lutjanus griseus) from the West Florida shelf as determined from otolith microstructure. *Fishery Bulletin* 100:391-403.
- * Horth, L. 2003. Melanic body-color and aggressive mating-behavior are correlated traits in male mosquitofish (Gambusia holbrooki). *Proc. Roy. Soc. Lond. B* 270:1033-1040.
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- * Horth, L. 2004. Predation and the persistence of melanic male mosquitofish (Gambusia holbrooki). *J. Evol. Biol.* 17:672-679.
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- * Aresco, M. J., and Gunzburger, M. S. 2004. Effects of large-scale sediment removal on herpetofauna in Florida wetlands. *J. Herpetology* 38:275-279.
- * Gunzburger, M. S. 2005. Differential predation on tadpoles influences the potential effects of hybridization between Hyla cinerea and

Hyla gratiosa. J. Herpetology 39:682-687.

- * Aresco, M.J. 2005. The effect of sex-specific terrestrial movements and roads on the sex ratio of freshwater turtles. Biological Conservation 123:549-560.
- * Aresco, M. J. 2005. Mitigation measures to reduce excessive highway mortality of turtles and other herptofauna at a north Florida lake. The Journal of Wildlife Management 69:37-44.
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- * Horth, L. 2006. A sex-linked allele, autosomal modifiers and temperature-dependence appear to regulate melanism in male mosquitofish (*Gambusia holbrooki*). J. Exptl. Biol. 209:4938-4945.
- * Jue, N. K. 2006. Exploring the structure of genetic variation and the influences of demography on effective population size in the gag grouper *Mycteroperca microlepi* (Goode and Bean). J. Fish Biology 69 (Supp C):217-224.
- * Fuller, R. C., K. E. McGhee, and M. Schrader, M. 2007. Speciation in killifish and the role of salt tolerance. J. Evol. Biol. 20:1962-1975.
- * Gunzburger, M. S. 2007. Habitat segregation in two sister taxa of hylid treefrogs. Herpetologica 63:301-310.
- * Aresco, M. J. and M. S. Gunzburger. 2007. Ecology and morphology of *Chelydra serpentina* in northwestern Florida. Southeastern Naturalist 6:435-448.
- * DeVries, D. 2007. No evidence of bias from fish behavior in the selectivity of size and sex of the protogynous red porgy (*Pagrus pagrus*, Sparidae) by hook-and-line gear. Fish. Bull. 105:582-587.
- * Aresco, M. J. 2009. Environmental correlates of the abundances of three species of freshwater turtles in the lakes of northern Florida. Copeia 2009:545-555.
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