CURRICULUM VITAE

Joel Claude Trexler

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EDUCATION

1982-1986	Florida State University; Ph.D. in Biology. Dissertation title: Geographic variation in size in the sailfin molly, <i>Poecilia latipinna</i> . Advisor: Joseph
	Travis
1983	Organization for Tropical Studies; Costa Rican natural history course 83-1
1979-1982	Florida State University; M.Sc. in Biology, Thesis Title: Host density and
	intragenerational parasitism rates by a eulophid parasitoid. Advisor:
	Daniel Simberloff
1975-1979	University of South Carolina; B.Sc. in Marine Science

POSITIONS HELD

- 2020 present Director, Coastal and Marine Laboratory, Florida State University
- 2020 present Professor of Biological Science, Florida State University
- 2003 2020 Professor of Biological Science, Florida International University
- 2009 2020 Director, Marine Science, FIU
- 2006 2007 Interim Director, Marine Science, FIU
- 2000 2003 Director, Biology Graduate Program, FIU
- 1996 2003 Associate Professor of Biological Science, FIU
- 1991 2002 Assistant Professor of Biological Science, FIU
- 1989 -1991 Assistant Professor of Biology, University of Mississippi
- 1986 -1989 Assistant Professor of Marine Science, Eckerd College
- 1989 -1991 **Summer Research Associate**, population biology with J. Travis, Florida State University
- 1987 **Summer Visiting scientist**, foraging ecology with E. Ranta, University of Helsinki, Finland

TEACHING, COURSES TAUGHT AND HONORS

Florida International University

- Courses: Ecology lecture and lab, Advanced Ecology: Populations and Communities, Spatial Ecology, Marine Ecology lecture and lab, Population Biology, Ichthyology lecture and lab, Fish Biology, Genetics, Population Genetics, Evolution, Workshop on Data Management for Ecologists
- Resource person, Organization for Tropical Studies courses 92-10 & 93-10 Costa Rican Biodiversity

Invited instructor, Marine Protected Areas course taught at Instituto de Ciencias del Mar y Limnología, Puerto Morelos, Quintana Roo, Mexico. Offered jointly by

Universidad Nacional Autónoma de México and FIU, 2006-09

Invited instructor, Monitoring in Coastal Wetlands. A 3-day course taught at Unidad Multidisciplinaria de Docencia e Investigación, Sisal, Yucatán, Universidad Nacional Autónoma de México, 2008, 2009

Teaching Incentive Program (TIP) Award for Excellence in teaching, 1996 Excellence in Research Award, 2004

Finalist (1 of 3 university wide), FIU Council of 100 Outstanding Professor of the Year Award, 2007

Ralph W. Yerger Lecturer in Biology, Florida State University, April 2008

FIU Top Scholar in 2017 in the category of Established Faculty with Significant Grant Funding in the Sciences

FIU College of Arts, Science, and Education, Service Award 2017, 2018, 2019

University of Mississippi

Courses: Introductory Genetics, General Biology (one of three member team) Outstanding Teacher Award, 1991, Alpha Epsilon Delta, pre-med honor society

Eckerd College

Courses: General Biology, Ecology, Advanced Ecology, Marine Ecology, Conservation Biology, Vertebrate Biology, Biology of Fishes, Experimental Analysis of Fish Ecology, Natural History of the Galapagos Islands (a four-week course, two weeks in Galapagos Islands), Costa Rican Natural History (a four-week course, two weeks in Costa Rica), Western Heritage I & II (liberal arts survey courses for freshmen)

PROFESSIONAL SERVICE

- Editorial Boards: Oecologia, Editor-in-Chief, Aquatic Ecology (2013-pres); Ecology (2011 pres); Biological Invasions (2011 pres); Oecologia (2002 2011); Hydrobiologia (2006-2008), Hydrobiologia Advisory Board (2008-pres); Wetlands Ecology and Management (2009 to 2012)
- Guest Editor: Hydrobiologia special issue on Florida Coastal Everglades LTER project (2005); Ecological Indicators special issue on assessment of Everglades restoration (2009)
- Review Team Member, Institute for Coastal Science and Policy and PhD Program in Coastal Resources Management, East Carolina University (Feb 2014)
- Member, Design Team for DECOMP physical model, DECOMP Adaptive Management Team working group (2005-2007)
- Contributor, Environmental Assessment of Tamiami Trail Bridge, Everglades National Park (2005)
- Technical lead, Aquatic Ecology Group, IOP Congressional Report, Everglade National Park (2003-04)

Registrar, annual meeting of the American Society of Naturalists (2002) Treasurer, American Society of Naturalists (1999-01); Past Treasurer (2001 – 2005)

- Expert Witness, FL State Environmental Regulatory Commission. Presented testimony on nutrient enrichment and food webs in the Everglades (2002) see Dec 1, 2007 news article in Environmental Science & Technology, http://pubs.acs.org/doi/pdfplus/10.1021/es0726512
- Member of Graduate Committees: University of Florida, member of one PhD committee; University of Miami, member of three PhD committees; Louisiana State University, member of one PhD committee; University of New Mexico, member of one PhD committee; Valdosta State University, member of one MS committee

Editor, Aquatic Ecology Section newsletter, Ecological Society of America (1993-98)

Consultant, statistical analysis and fish ecology, South Florida Water Management District

Membership on Panels: Resource Damage Assessment Team for Everglades National Park after Hurricane Andrew (1992); NOAA technical advisory team, maritime fishery reserves in the U.S. SE Atlantic (1994); Hole-In-The-Donut restoration Technical Proposal Evaluation Committee, Everglades National Park (1995-97); Florida Keys Carrying Capacity Analysis Model Framework development team (1999-2000); Technical Review Committee, Miami-Dade County Watershed Study (2003-06)

External Reviewer: Florida Keys Carrying Capacity Plan for US Army Corps (1998)

PRESENTATIONS

Invited Lectures and Symposia (lectures presented, unless otherwise noted)

- 2020 Conferencia Magistral. 1^{er} Congreso Sobre Desarrollo Sustentable y Aprovechamiento de la Vida Silvestre. Universidad Autónoma de Campeche. Mx
- 2019 Whitney Marine Laboratory, University of Florida. Marineland, FL
- 2017 Conference on Conserving Biodiversity: Challenges for Florida in the Anthropocene. Florida Gulf Coast University University of Miami, Biology Department seminar
- 2016 Restoring an iconic ecosystem? Non-native fish and everglades restoration. Joel Trexler. Ecological Society of America 2016, Ft. Lauderdale, FL. Thirty years of bird food in the Everglades: Monitoring key links in the food web of an iconic ecosystem. Joel Trexler and William Loftus. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA.
- 2015 Invasive Species Symposium, Greater Everglades Ecosystem Research Symposium
- 2013 Florida Gulf Coast University, Whitaker Center for STEM Education American Society of Ichthyologists and Herpetologists. Fish Out of Water Symposium, Albuquerque, NM III Symposium for the Knowledge of Coastal Resources, University of Yucatán, Mérida, Mexico. Plenary Speaker American Fisheries Society, Florida Chapter. Symposium on fisheries monitoring in Florida
 2012 INTECOL International Wetlands Conf., Symposium of Novel Ecosystems, Orlando, FL

American Fisheries Society, Symposium on Invasive Species, Minneapolis, MN

	Virginia Technical University, Department of Biology
	Georgia Southern University, Department of Biology
2011	Sam Houston State University, Department of Biology
	Symposium on food web models, European Ecological Federation
2010	University of New Mexico, Department of Biology
2009	Dauphin Island Sea Lab, Alabama
	Symposium: Livebearing Fish Symposium, American Society of Ichthyologists
	and Herpetologists, Portland, OR
2008	Ralph W. Yerger Lecturer in Biology, Florida State University
	University of Oklahoma, Zoology Department
	East Carolina University, Biology Department
2007	Symposium: Restoration Metrics to Assess Nekton Habitat Quality. Estuarine
	Research Federation, Providence, RI
	Florida Institute of Technology
	Symposium: Setting goals and targets for restoration and management of large-
	scale ecosystems. Ecological Society of America, San Jose, CA. Co-Chairs: Q.
	Dong and J. C. Trexler; also presented a 25-minute lecture
	Symposium: Everglades Water Quality: On the Critical Path to Restoration; North
	American Benthological Society, Columbia, SC
	Grand Valley State University, Allendale, MI
	Annis Water Resources Center, Muskegon, MI
2006	Plenary speaker: III International Symposium on Vivparous Fishes, Morelia,
	Mexico. (2 presentations)
	Plenary speaker: 'Defining Restoration Success' Greater Everglades Ecosystem
	Restoration Conference, Orlando.
	Illinois Natural History Survey, University of Illinois
2005	Humedales 2005: V Simposio International Humedales. Cienaga de Zapata,
	Matanzanas, Cuba
	Everglades Symposium, Society of Wetlands Scientists
	University of Florida, Department of Wildlife Ecology and Conservation
	Nova Southeastern University Oceanographic Center
	Symposium, Interdisciplinary Approaches to Monitoring and Assessment of
	Regional Ecosystems: Challenges and Opportunities. Monitoring Science and
	Technology Symposium, Denver.
	Brigham Young University, Department of Integrative Biology
	University of Miami, Department of Biology
	Florida Atlantic University, Department of Biological Sciences
2003	Symposium, Exotics and Extinction: Fates of Fishes, Amphibians, and Reptiles in
	the Americas. ASIH
	University of Florida, Zoology Department
	University of Maryland, Department of Biology
	Loyola University, New Orleans, Department of Biology
	University of Tennessee, Knoxville, Department of Ecology and Evolutionary
	Biology

- 2000 Workshop Co-Chair, Strategies for examining the effects of species interactions on ecosystem processes: do different research strategies yield consistent results? LTER All Scientists Meeting, Snowbird, UT. Symposium, Evolution of Parental Care. Ethology, Evolutionary Ecology of Fishes 2000, Athens, GA.
- 1999 Washington University, St. Louis, Department of Biology University of Maine, Departments of Biology, Marine Science, and Wildlife (3 seminars)
 University of Oldshame, Department of Zealeses

University of Oklahoma, Department of Zoology

- 1999 Symposium Co-Chair, Interdisciplinary approaches to ecological monitoring of major ecosystem restoration initiatives. Ecological Society of America Symposium, Ecological and Genetic Effects of Aquaculture on the Environment and Their Solutions. American Fisheries Society, Charlotte, NC.
- 1998 Symposium on the South Florida Hydroscape, ASLO/ESA joint meeting Symposium on Integrating Phenology at the Organismal and Population Levels, ASIH
- 1997 Symposium on Florida Ecosystem Restoration, Florida Chapter of the AFS Texas A&M University, Department of Fisheries and Wildlife
- 1996 University of South Florida, Department of Biological Science Workshop on Poeciliid Fishes, Center for Ecology, Evolution and Behavior, University of Kentucky
- 1995 Symposium on fisheries in river-swamp systems. Trexler and W. Loftus, AFS Symposium on the status of reef resources of the southeastern US and options for management. AFS

University of Florida, Zoology Department Illinois Natural History Survey, University of Illinois Department of Ecology, Ethology, and Evolution, University of Illinois South Florida Water Management District, Sigma Xi Chapter

- 1994 Symposium on research in national parks, Society of Wetland Scientists South Florida Water Management District, Sigma Xi Chapter
- 1993 Florida Atlantic University, Biology Department, Boca Raton
- 1991 Florida International University, Biology Department, Miami University of Miami, Biology Department
- 1990 Virginia Polytechnical Institute and State University, Biology Department, Blacksburg
- 1989 Symposium on phenotypic plasticity, ASIH The Savannah River Ecology Laboratory, Aiken, SC The University of Georgia, Genetics Department, Athens Mississippi State University, Biology Department, Starkville The University of Mississippi, Biology Department, Oxford Memphis State University, Biology Department, Memphis The University of Helsinki, Finland, Genetics Department The University of Turku, Finland, Zoology Department Louisiana State University, Museum of Natural History, Baton Rouge

Symposium on the behavior and ecology of fish, sponsored by the University of Helsinki, the Nordic Research Council, and the Finnish National Academy of Sciences

1987 Lammi Zoological Station, Finland Tvarmmine Zoological Station, Finland (two seminars)

Contributed Papers and Posters (since 2015)

2019 Predicting sustainable population growth by linking age-specific mortality and growth rate (M'/G') to biomass in a fluctuating environment. John V. Gatto, Joel C. Trexler, Ecological Society of America, Louisville.

Resource-consumer relationship along a gradient of water flow. Alex Mercado-Molina, and **Joel C. Trexler**, Ecological Society of America, Louisville.

Are mixing models robust to trophic enrichment factors? Evaluation with simulation modeling. Peter J. Flood, and **Joel C. Trexler**, Ecological Society of America, Louisville.

- Estimation of fish biomass in the Everglades from the meter scale to the landscape scale. Nicole D. Strickland and **Joel C. Trexler**, Ecological Society of America, Louisville.
- Non-Consumptive Impacts of Invasive Fish Species to Nutrient Removal in South Florida's Stormwater Treatment Areas Mark Barton, **Joel Trexler**, Sue Newman, Mark Cook and Nathan Evans. American Fisheries Society, Reno, NV
- Predicting sustainable population growth by linking age-specific mortality and growth rate (M'/G') to biomass in a fluctuating environment. John V. Gatto, **Joel C. Trexler**, American Fisheries Society, Reno, NV
- Nutrient cycling by fishes and macroinvertebrates in the Everglades stormwater treatment areas. Nathan T. Evans, **Joel C. Trexler**, Susan Newman, and Mark I. Cook. 2019 Greater Everglades Ecosystem Restoration (GEER) Symposium
- Community composition of the upper Taylor Slough region: monitoring responses to an altered flow regime. Peter J. Flood and **Joel C. Trexler**. 2019 Greater Everglades Ecosystem Restoration (GEER) Symposium
- Evaluating otolith microchemistry for tracking phosphorus experienced by Everglades fish. John V. Gatto, **Joel C. Trexler**, Sue Newman, Colin Saunders, Mark Cook. POSTER. 2019 Greater Everglades Ecosystem Restoration (GEER) Symposium
- Forecasting the restoration of a free-flowing Everglades based on the DPM large-scale high-flow experiments. Jud Harvey, C. Saunders, S. Newman, J. Choi, B. Rosen, J. Trexler, L. Larsen, D. Ho, F. Sklar, C. Zweig, E. Tate-Boldt, C. Coronado-Molina, F. Santamaria, E. Cline, R. Jaffé, P. Regier, N. Schmadel. 2019 Greater Everglades Ecosystem Restoration (GEER) Symposium
- Assessing fish movement through time in Everglades National Park using drift fences. Erin McCarthy, and **Joel Trexler**. POSTER. 2019 Greater Everglades Ecosystem Restoration (GEER) Symposium
- Changes in habitat connectivity affect habitat use of fish in the Decomp Physical Model (DPM). Alex T. Ontkos and **Joel C. Trexler**. 2019 Greater Everglades Ecosystem Restoration (GEER) Symposium

- Algal indicators of ecosystem response in the Decomp Physical Model high-flow experiment. Barry H. Rosen, Sue Newman, Colin Saunders, **Joel Trexler**, Judson Harvey, Eric Tate-Bolt. 2019 Greater Everglades Ecosystem Restoration (GEER) Symposium
- Landscape-scale aquatic fauna monitoring for CERP 2005-2017. Somers Smott and **Joel C. Trexler**. 2019 Greater Everglades Ecosystem Restoration (GEER) Symposium
- Invasive species impacts in space and time: scaling up to ecosystem function. Joel Trexler. 2019 Greater Everglades Ecosystem Restoration (GEER) Symposium
- 2018 Using agent-based modeling to predict recolonization patterns following disturbance. John V. Gatto and **Trexler**. Ecological Society of America
 - Estimating basal energy sources in an aquatic food web. Peter J. Flood, William F. Loftus, and **Trexler**. Ecological Society of America
 - Intra-community diversity of invasive species impacts in space and time: Scaling up to ecosystem function. **Trexler** and Joseph J. Parkos III. Ecological Society of America
 - Evaluating the impact of hydrological variation on stock-recruitment relationships. John Gatto and **Trexler**. American Fisheries Society, Atlantic City, NJ
 - Nutrient cycling by fishes and macroinvertebrates in the Everglades Stormwater Treatment Areas (STAs). Nathan Evans, **Trexler**, Susan Newman, and Mark Cook. American Fisheries Society, Atlantic City, NJ
- 2017 Non-Native Fish and Everglades Restoration: An Unexpected Challenge to Restoring an Iconic Ecosystem. **Trexler** and Kline Greater Everglades Ecosystem Restoration GEER 2017
 - Expansion and dominance of non-native fish populations across Everglades National Park Kline and **Trexler** GEER 2017
- 2017 Influence of an experimental sheet flow regime on aquatic food webs of the central Everglades. Sarah Bornhoeft, Barry Rosen, Susan Newman, Colin Saunders, and **Trexler**. Greater Everglades Ecosystem Restoration meeting, Coral Springs.
- 2017 Effects of hydroscape modification on Everglades aquatic consumers: Evaluating two hypotheses. Michael Bush, John Gatto, Alex Ontkos, and **Trexler**. Greater Everglades Ecosystem Restoration meeting, Coral Springs.
- Food webs, interaction webs, and monitoring: using a trophic conceptual model to select ecological indicators. National Conf. on Ecosystem Restoration (NCER 2016) Trexler, Brandt, Mazzotti
 - Stable Isotopes of Macrobenthos and Fish in Mangrove-Forest Food Webs of Shark River, USA. Carole McIvor, William Loftus, David Green, Joel Trexler & Chase Rakowski. Mangrove & Macrobenthos Meeting (MMM4) 2016, St. Augustine, FL.

Reconciling information content of active and passive sampling methods used to detect native recovery and non-native range expansion. Joe Parkos, Jeffrey Kline, Joel Trexler. Ecological Society of America 2016, Ft. Lauderdale, FL.

- Using Virtual Population Analysis (VPA) to estimate under-sampled recruits to improve population dynamics models. John Gatto and Joel Trexler. Ecological Society of America 2016, Ft. Lauderdale, FL.
- Assessing restoration progress using dynamic quantitative targets: An example using aquatic fauna as indicators for Everglades restoration. Chase Rakowski and Joel Trexler. Ecological Society of America 2016, Ft. Lauderdale, FL.
- Beta diversity in a Florida Everglades aquatic animal metacommunity. Theresa K. Brown and Joel C. Trexler. Ecological Society of America 2016, Ft. Lauderdale, FL.
- Testing a hypothesis for the evolution of herbivory using the Sailfin Molly (Poecilia latipinna) in the Florida Everglades. Jessica Sanchez and Joel Trexler. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA.
- Endurance Tests Explain Recolonization Patterns Following Hydrological Disturbance. John Gatto and Joel Trexler. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA.
- The Effect of Landscape Structure on Predatory Fish Movements in the Florida Everglades. Alex Ontkos and Joel Trexler. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA. (poster)
- Influence of an Experimental Sheet Flow Regime on Aquatic Food Webs of the Central Everglades. Sarah Bornhoeft and Joel Trexler. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA. (poster)
- 2015 Identifying thresholds in fish community dynamics and composition in response to altered hydroperiods in everglades marshes. (Poster) Ecological Society of America, **Trexler**, Catano
 - The adaptive evolution of herbivory in freshwater systems. Ecological Society of America, Sanchez, **Trexler**
 - Influence of an experimental sheet flow regime on aquatic food webs of the central Everglades. Ecological Society of America,Bornhoeft, **Trexler**
 - Endurance tests explain recolonization patterns following hydrological disturbance. Ecological Society of America, Gatto, **Trexler**
 - Are hydroscapes landscapes? A behavioral landscape-ecology framework for functional connectivity in aquatic ecosystems. Ecological Society of America, Parkos, **Trexler**
 - Integrated eco-hydrological modeling of forage fish resource pulse accumulation through changes in landscape connectivity and isolation. Ecological Society of America, Yuek, DeAngelis, **Trexler**
 - Identifying thresholds in fish community dynamics and composition in response to altered hydroperiods in everglades marshes. GEER 2015, Catano, Herrin, **Trexler**
 - Assessment of the ecological status and trends of northeastern shark river slough. GEER 2015, Richards, Gaiser, Gann, Scinto, **Trexler**
 - Influences of changing hydrologic conditions on food web patterns near the boundaries of Everglades National Park. GEER 2015, Sokol, **Trexler**
 - The Trophic Hypothesis: long-term trends in wading bird prey species in the freshwater everglades. GEER 2015, Trexler, Kline, Parkos, Loftus

Effects of flow and connectivity on everglades aquatic consumers: evaluating three hypotheses. GEER 2015, Bush, Bornhoeft, Gatto, **Trexler**

PUBLICATIONS Peer-Reviewed Journal Articles, Published and In Press

- 111 Gatto, J. V., J. L. Kline, W. F. Loftus, and J. C. Trexler. 2021. Linking demographic transitions to population dynamics in a fluctuating environment. Canadian Journal of Fisheries and Aquatic Science, in press.
- 110 Zabala, J., J. C. Trexler, N. Jayasena, and P. Frederick. 2020. Early breeding failure in birds due to environmental toxins: a potentially powerful but hidden effect of contamination. Environmental Science & Technology 54:13786–13796. dx.doi.org/10.1021/acs.est.0c04098.
- 109 Gatto, J. V., and J. C. Trexler. 2020. Speed and directedness predict colonization sequence post-disturbance. Oecologia 193:713-727.
- 108 Flood, P., A. Duran, M. Barton, A. E. Mercado-Molina, and J. C. Trexler. 2020. Invasion impacts on functions and services of aquatic ecosystems. Hydrobiologia 847: 1571-1586.
- 107 Parkos III, J. J., J. L. Kline, and J. C. Trexler. 2019. Signal from the noise: model-based interpretation of variable correspondence between active and passive samplers. Ecosphere 10(9):e02858. 10.1002/ecs2.2858
- 106 Sanchez, J. L., H. D. Bracken-Grissom, and J. C Trexler. 2019. Freshwater-tomarine transitions may explain the evolution of herbivory in the subgenus *Mollienesia* (genus *Poecilia*). Biological Journal of the Linnean Society 127:742-761.
- 105 Gatto, J. V., and J. C. Trexler. 2019. Seasonality of fish recruitment in a pulsed wetland ecosystem: estimation and hydrological effects. Env. Biol. Fishes 102:595–613.
- Sanchez, J., and J. C. Trexler. 2018. When is an herbivore not an herbivore? Detritivory facilitates herbivory in a freshwater system. Ecology and Evolution 8:5977-5991. doi: 10.1002/ece3.4133
- 103 Beerens, J. M., J. C. Trexler and C. P. Catano. 2017. Predicting wading bird and aquatic faunal responses to ecosystem restoration scenarios. Restoration Ecology 25:S86-S98. doi: 10.1111/rec.12518
- 102 Yurek, S. D. L. DeAngelis, **J. C. Trexler**, J. A. Klassen, and L. G. Larsen. 2016. Persistence and diversity of directional landscape connectivity improves biomass

pulsing in simulations of expanding and contracting wetlands. Ecological Complexity 28:1-11. doi:10.1016/j.ecocom.2016.08.004

- 101 Botson, B. A., D. E. Gawlik, and J. C. Trexler. 2016. Mechanisms that generate resource pulses in a fluctuating wetland. PLoS ONE 11(7):e0158864. doi:10.1371/journal.pone.0158864
- 100 Sanchez, J. L., and **J. C. Trexler**. 2016. The adaptive evolution of herbivory in freshwater systems. Ecosphere 7(7):e01414. 10.1002/ecs2.1414
- 99 Venne, L. S., **J. C. Trexler**, and P. C. Frederick. 2016. Prescribed burn creates pulsed effects on a wetland aquatic community. Hydrobiologia 771:281–295.
- 98 Ruehl, C. B., and J. C. Trexler. 2015. Reciprocal transplant reveals trade-off of resource quality and predation risk in the field. Oecologia 179:117-127.
- 97 Parkos, J. J., III, L. F. Wolski, W. F. Loftus, and J. C. Trexler. 2015. Dynamic movement patterns of Florida gar within a fluctuating hydroscape. Copeia 103:132–140
- 96 Hoch, J. M., E. R. Sokol, A. D. Parker, and J. C. Trexler. 2015. Dispersal strategies among members of the small-fish metacommunity of the Everglades. Copeia 103:157–169
- Rose, K. A., S. Sable, D. L. DeAngelis, S. Yurek, J. C. Trexler, W. Graf, and D. J. Reed. 2015. Proposed best modeling practices for assessing the effects of ecosystem restoration on fish. Ecological Modelling 300:12-29
- 94 Catano, C. P., J. M. Beerens, L. Brandt, K. M. Hart, F. J. Mazzotti, S. Romanach, L. Pearlstine, and J. C. Trexler. 2015. Using scenario planning to evaluate the impacts of climate change on wildlife populations and communities in the Florida Everglades. Environmental Management 55:807-823, doi:10.1007/s00267-014-0397-5
- 93 Harrison, E., J. C. Trexler, T. M. Collins, E. Vazquez-Domínguez, U. Razo-Mendivil, W. A. Matamoros, and C. Barrientos. 2014. Genetic evidence for multiple sources of the non-native fish *Cichlasoma urophthalmus* (Günther; Mayan Cichlids) in southern Florida. PLoS ONE 9(9): e104173. doi:10.1371/journal.pone.0104173
- 92 Parkos, J. J., III, and **J. C. Trexler**. 2014. Origins of functional connectivity in a human-modified wetland landscape. Canadian Journal of Fisheries and Aquatic Sciences 71:1-12 doi:10.1139/cjfas-2013-0553
- 91 Mukherjee S., M. R. Heithaus, **J. C. Trexler**, J. Ray-Mukherjee, and J. Vaudo. 2014. Perceived risk of predation affects reproductive life-history traits in

Gambusia holbrooki, but not in *Heterandria formosa*. PLoS ONE 9(2): e88832. doi:10.1371/journal.pone.0088832

- 90 Sokol, E., J. M. Hoch, E. E. Gaiser, and J. C. Trexler. 2014. Metacommunity structure along resource and disturbance gradients in Everglades wetlands. Wetlands 34:S135-S146 doi.org/10.1007/s13157-013-0413-1
- 89 Goss, C. W., W. F. Loftus, and J. C. Trexler. 2014. Fish colonization of ephemeral wetlands in the Florida Everglades. Wetlands 34:S147-157 doi.org:10.1007/s13157-013-0375-3
- Gaiser, E. E., P. Sullivan, F. A. C. Tobias, A. J. Bramburger, and J. C. Trexler.
 2014. Boundary effects on benthic microbial phosphorus concentrations and diatom beta diversity in a hydrologically-modified, nutrient-limited wetland.
 Wetlands 34:S55-S64 doi.org/10.1007/s13157-013-0375-3
- 87 Kline J. L., W. F. Loftus, K. Kotun, J. C. Trexler, J. S. Rehage, J. J. Lorenz, and M. Robinson. 2014. Recent fish introductions into Everglades National Park: An unforeseen consequence of water-management? Wetlands 34:S175-S187 doi.org/10.1007/s13157-012-0362-0
- 86 Banet A.I., and J. C. Trexler. 2013. Space-for-Time Substitution Works in Everglades Ecological Forecasting Models. PLoS ONE 8(11): e81025. doi.org/10.1371/journal.pone.0081025
- 85 Ruehl, C. B., and J. C. Trexler. 2013. A suite of prey traits determine predator and nutrient enrichment effects in a tri-trophic food web. Ecosphere 4(6):75. doi.org/10.1890/ES13-00065.1
- 84 Harrison, E., C. N. Love, K. L. Jones, S. L. Lance, J. C. Trexler, and T. Collins. 2013. Isolation and characterization of 18 novel polymorphic microsatellite markers from the Mayan cichlid (*Cichlasoma urophthalmus*). Conservation Genetics Resources doi.org/10.1007/s12686-013-9886-8
- 83 Giacomini, H. C., D. L. DeAngelis, J. C. Trexler, and M. Petrere, Jr. 2013. Trait contributions to fish community assembly emerge from trophic interactions in an individual-based model. Ecological Modeling 251:32–43 doi.org/10.1016/j.ecolmodel.2012.12.003
- 82 Abbey-Lee, R., E. E. Gaiser, and **J. C. Trexler**. 2013. Relative role of dispersal dynamics and competition in determining isotopic niche breadth. Freshwater Biology 58:780-792 doi.org/10.1111/fwb.12084
- 81 Yurek, S, D. L. DeAngelis, J. C. Trexler, F. Jopp, and D. L. Donalson. 2013. Spatially explicit mechanistic model of dynamic hydrology driving small fish biomass dispersal and stranding. Ecological Modeling 250:391-401

- 80 Lee, S., E. E. Gaiser, and **J. C. Trexler**. 2013. Diatom-based models for inferring hydrology and periphyton abundance in a subtropical karstic wetland: implications for ecosystem-scale bioassessment. Wetlands 33:157–173
- 79 Harrison, E., J. Lorenz, and J. C. Trexler. 2013. Impacts of Mayan cichlids (*Cichlasoma urophthalmus*) (Gunther) on native fish species in the oligohaline southern Everglades. Copeia 2013:80-96 doi.org/10.1643/CE-11-182
- 78 Apodaca, J. J., J. C. Trexler, N. Jue, M. Schrader, and J. Travis. 2013. Largescale natural disturbance alters genetic population structure of the sailfin molly, *Poecilia latipinna*. American Naturalist 181:254-263 doi.org/10.1086/668831
- 77 Belicka, L. L., E. R. Sokol, J. M. Hoch, R. Jaffé, and J. C. Trexler. 2012. A molecular and stable isotopic approach to investigate the importance of algal and detrital energy pathways in a freshwater marsh. Wetlands 32:531-542
- 76 McElroy, T. C., K. L. Kandl, and J. C. Trexler. 2011. Temporal populationgenetic structure of eastern mosquitofish in a dynamic aquatic landscape. Journal of Heredity 102:678-687
- 75 Sargeant, B. L., E. E. Gaiser, and J. C. Trexler. 2011. Indirect and direct controls of macroinvertebrates and small fish by abiotic factors and trophic interactions in the Florida Everglades. Freshwater Biology 56:2334–2346
- 74 Ruehl, C. B., and J. C. Trexler. 2011. Comparisons of snail density, standing stock, and body size among freshwater ecosystems: A review. Hydrobiologia 665:1–13
- 73 Parkos, J. J., C. R. Ruetz III, and J. C. Trexler. 2011. Disturbance regime and limits on benefits of refuge use for fishes in a fluctuating hydroscape. Oikos 120:1519-1530
- 72 Obaza, A., D. L. DeAngelis, and **J. C. Trexler**. 2011. Using data from an encounter sampler to model fish dispersal. Journal of Fish Biology 78:495–513
- 71 Jopp, F., D. L. DeAngelis, J. C. Trexler. 2010. Modeling seasonal dynamics of small fish cohorts in fluctuating freshwater marsh landscapes. Landscape Ecology 25: 1041-1054.
- 70 DeAngelis, D. L., J. C. Trexler, C. Cosner, A. Obaza, and F. Jopp. 2010. Fish population dynamics in a seasonally varying wetland. Ecol. Modelling 221:1131-1137.

- 69 Sargeant, B., E. E. Gaiser, and J. C. Trexler. 2010. Biotic and abiotic determinants of community trophic diversity in an Everglades food web. Marine and Freshwater Ecology 61:11-22.
- 66 Doren, R. F., J. C. Trexler, A. D. Gottlieb, and M. Harwell. 2009. Ecological indicators for system-wide assessment of the Greater Everglades Ecosystem Restoration Program. Ecological Indicators 9:S2-S16
- 65 **Trexler, J. C.**, and C. W. Goss. 2009. Aquatic fauna as indicators for Everglades restoration: Applying dynamic targets in assessments. Ecological Indicators 9S:S108-S119.
- 64 DeAngelis, D. L., J. C. Trexler, and D. D. Donalson. 2008. Food web dynamics in a seasonally varying wetland. Mathematical Biosciences and Engineering 5:877-887.
- 63 Gaiser, E. E., J. H. Richards, J. C. Trexler, R. F. Doren, P. V. McCormick, and S. Newman. 2008. Comment on "Estimating ecological thresholds for phosphorus in the Everglades." Environmental Science & Technology 42:6770-6771.
- 62 Liston, S. E., S. Newman, and **J. C. Trexler**. 2008. Macroinvertebrate community response to eutrophication in an oligotrophic wetland: An in situ mesocosm experiment. Wetlands 28:686-694
- 61 Chick, J. H., P. Geddes, and J. C. Trexler. 2008. Periphyton mat structure mediates trophic interactions in a subtropical wetland. Wetlands 28:378–389
- 60 Dorn, N., and J. C. Trexler. 2007. Crayfish assemblage shifts in a large droughtprone wetland: the roles of hydrology and competition. Freshwater Biology 52, 2399–2411
- 59 Zambrano, L., E. Vázquez-Domínguez, D. García-Bedoya, W. F. Loftus, and J. C. Trexler. 2006. Fish community structure in freshwater karstic wetlands of the Yucatan Peninsula, Mexico. Ichthyological Explorations 17:193-206
- 58 Green, D., J. C. Trexler, J. Lorenz, C. McIvor, and T. Philippi. 2006. Spatial patterns of fish communities along two estuarine gradients in southern Florida. Hydrobiologia 569:387-399
- 57 Williams, A. J., and **J. C. Trexler**. 2006. A preliminary analysis of the correlation of food-web characteristics with hydrology and nutrient gradients in the southern Everglades. Hydrobiologia 569: 493-504
- 56 Rehage, J. S., and **J. C. Trexler**. 2006. Assessing the net effect of anthropogenic disturbance on aquatic communities in wetlands: Community structure relative to distance from canals. Hydrobiologia 569:359-373

- 55 Dorn, N. J., **J. C. Trexler**, and E. E. Gaiser. 2006. Exploring the role of large predators in marsh food webs: evidence for a behaviorally-mediated trophic cascade. Hydrobiologia 569:375-386
- 54 Creer, D. A., and **J. C. Trexler**. 2006. New polymorphic microsatellite loci in two fish species: bluefin killifish (*Lucania goodei*) and yellow bullhead (*Ameiurus natalis*). Molecular Ecology Notes 6:167-169
- 53 Gaiser, E. E., D. L. Childers, R. D. Jones, J. H. Richards, L. J. Scinto and J. C. Trexler. 2006. Periphyton responses to eutrophication in the Florida Everglades: Cross-system patterns of structural and compositional change. Limnology and Oceanography 51:617-630.
- 52 Liston, S. E., and J. C. Trexler. 2005. Spatial and temporal scaling of macroinvertebrate communities inhabiting floating periphyton mats in the Florida Everglades. Journal of the North American Benthological Society 24:832-844
- 51 **Trexler, J. C.**, W. F. Loftus, and S. Perry. 2005. Disturbance frequency and community structure in a twenty-five year intervention study. Oecologia 145:140-152
- 50 DeAngelis, D. L., **J. C. Trexler**, and W. F. Loftus. 2005. Life history trade-offs and community dynamics of small fishes in a seasonally pulsed wetland. Canadian Journal of Fisheries and Aquatic Sci. 62:781-790
- 47 Dorn, N. J., R. Urgelles, and **J. C. Trexler**. 2005. Evaluating active and passive sampling methods to quantify crayfish density in a freshwater marsh. Journal of the North American Benthological Society 24:346-356
- 46 Gaiser, E. E., J. C. Trexler, J. H. Richards, D. L. Childers, D. Lee, A. L. Edwards, L. J. Scinto, K. Jayachandran, G. B. Noe, R. D. Jones. 2005. Exposure to above-ambient phosphorus causes ecosystem state change in the Everglades. Journal of Environmental Quality 34: 717-723
- 45 Ruetz, C. R., III, **J. C. Trexler**, F. Jordan, W. F. Loftus, and S. A. Perry. 2005. Population dynamics of wetland fishes: Spatiotemporal patterns shaped by hydrological disturbance? Journal of Animal Ecology 74:322-332
- 44 Gaff H, J. Chick J, J. **Trexler**, D. DeAngelis, L. Gross L, and R. Salinas. 2004. Evaluation of and insights from ALFISH: a spatially explicit, landscape-level simulation of fish populations in the Everglades. Hydrobiologia 520: 73-87.
- Wolski, L. F., J. C. Trexler, E. B. Nelson, T. Philippi, and S. A. Perry. 2004.
 Assessing visitor impacts from long-term sampling of wetland communities in the Everglades. Freshwater Biology 49:1381-1390

- 42 Chick, J. H., C. R. Ruetz III, and **J. C. Trexler**. 2004. Spatial scale and abundance patterns of large fish communities in freshwater marshes of the Florida Everglades. Wetlands 24:652-664
- 41 Kobza, R. M., J. C. Trexler, W. F. Loftus, and S. A. Perry. 2004. Community structure of fishes inhabiting aquatic refuges in a threatened karstic wetland and its implication for ecosystem management. Biological Conservation 116:153-165
- 40 Gaiser, E. E., L. J. Scinto, J. H. Richards, K. Jayachandran, D. L. Childers, J. C. Trexler, and R. D. Jones. 2004. Phosphorus in periphyton mats provides best metric for detecting low-level P enrichment in an oligotrophic wetland. Water Research 38:507-516
- 39 Trexler, J. C. and D. L. DeAngelis. 2003. Resource allocation in offspring provisioning: an evaluation of the conditions favoring the evolution of matrotrophy. American Naturalist 165:574-585
- 38 Geddes, P., and J. C. Trexler. 2003. Uncoupling of omnivore-mediated positive and negative effects on periphyton mats. Oecologia 136:585-595
- 37 McElroy, T. C., L. L. Kandl, J. Garcia and J. C. Trexler. 2002. Extinctioncolonization dynamics structure genetic variation of spotted sunfish (*Lepomis punctatus*) in the Florida Everglades. Molecular Ecology 12:355-368.
- 36 Noe, G.B., D.L. Childers, A.L. Edwards, E. Gaiser, K. Jayachandaran, D. Lee, J. Meeder, J. Richards, L. J. Scinto, **J. Trexler**, and R. D. Jones. 2002. Short-term changes in phosphorus storage in an oligotrophic Everglades wetland ecosystem receiving experimental nutrient enrichment. Biogeochemistry 59: 239-267.
- 35 Collins, T., J. C. Trexler, L. G. Nico, and T. Rawlings. 2002. Genetic diversity in a morphologically conservative invasive taxon: Multiple swamp eel introductions in the southeastern United States. Conservation Biology 16:1024-1035
- 34 Taylor, R. C., **J. C. Trexler**, and W. F. Loftus. 2001. Separating the effects of intra- and interspecific age-structured interactions in an experimental fish assemblage. Oecologia 127: 143-152
- 33 Trexler, J. C., W. F. Loftus, F. Jordan, J. Lorenz, J. Chick, and R. M. Kobza. 2001. Empirical assessment of fish introductions in a subtropical wetland: an evaluation of contrasting views. Biological Invasions 2:265-277
- 32 **Trexler, J. C.**, and J. Travis. 2000. Can marine protected areas conserve stock attributes? Bulletin of Marine Science 66:853-873

- 31 Schirripa, M. J., and **J. C. Trexler**. 2000. Effects of mortality and gear selectivity on the otolith radius-total length relation. Fisheries Research 46:83-89
- 30 Turner, T. F., **J. C. Trexler**, J. L. Harris, and J. L. Haynes. 2000. Nested cladistic analysis indicates population fragmentation shapes genetic diversity in a freshwater mussel. Genetics 154:777-785
- 29 Chick, J. H., S. Coyne, and **J. C. Trexler**. 1999. Effectiveness of airboat electrofishing for sampling fishes in shallow vegetated habitats. North American Journal of Fisheries Management 19:957-967
- 28 Turner, A. M., J. C. Trexler, F. Jordan, S. J. Slack, P. Geddes, and W. Loftus. 1999. Targeting ecosystem features for conservation: Standing crops in the Florida Everglades. Conservation Biology 13:898-911
- 27 Turner, T. F., and **J. C. Trexler**. 1998. Ecological and historical associations of gene flow in darters (Teleostei: Percidae). Evolution 52:1781-1801
- 26 **Trexler, J. C.** 1997. Resource availability and offspring provisioning: Plasticity in embryo nourishment in sailfin mollies. Ecology 78:1370-1381
- 25 **Trexler, J.C.**, J. Travis, and A. Dinep. 1997. Variation among populations of the sailfin molly in the rate of concurrent multiple paternity and its implications for mating-system evolution. Behavioral Ecology and Sociobiology 40:297-305
- 24 Jordan, C. F., S. Coyne, and J. C. Trexler. 1997. Sampling fishes in heavily vegetated habitats: the effects of habitat structure on sampling characteristics of the 1-m² throw trap. Transactions of the American Fisheries Society 126:1012-1020
- DeAngelis, D. L., W. F. Loftus, J. C. Trexler, and R. E. Ulanowicz. 1997.
 Modeling fish dynamics in a hydrologically pulsed ecosystem. Journal of Aquatic Ecosystem Stress and Recovery 6:1-13
- 22 Turner, A., and J. C. Trexler. 1997. Sampling invertebrates from the Florida Everglades: a comparison of alternative methods. Journal of the North American Benthological Society 16:694-709
- 21 Turner, T., **J. C. Trexler**, D. Kuhn, and H. Robison. 1996. Life history variation and comparative phylogeography of darters (Pisces:Percidae) from the North American central highlands. Evolution 50:2023-2036
- 20 **Trexler, J. C.** 1995. Restoration of the Kissimmee River: A conceptual model of past and present fish communities and its consequences for evaluating restoration success. Restoration Ecology 3:195-210

- 19 Roman, C. T., N. G. Aumen, J. C. Trexler, R. J. Fennema, W. F. Loftus, and M. A. Soukup. 1994. Hurricane Andrew's impact on freshwater resources. BioScience 44:247-255
- 18 Turner, T. F., J. C. Trexler, G. L. Miller, and K. E. Benson. 1994. Temporal and spatial dynamics of larval and juvenile fish abundance in a temperate floodplain river. Copeia 1994:174-183
- 17 **Trexler, J. C.**, R. C. Tempe, and J. Travis. 1994. Size-selective predation of sailfin mollies by two species of heron. Oikos 69:250-258
- 16 **Trexler, J. C.**, and J. Travis. 1993. Nontraditional regression analyses. Ecology 74:1629-1637
- 15 **Trexler, J. C.**, J. Travis, and M. McManus. 1992. Effects of habitat and body size on mortality rates of *Poecilia latipinna*. Ecology 73:2224-2236
- 14 Avise, J., **J. Trexler**, J. Travis, and W. S. Nelson. 1991. *Poecilia mexicana* is the recent female parent of the unisexual fish *P. formosa*. Evolution 45:1530-1533
- 13 **Trexler, J.**, and J. Travis. 1990. Phenotypic plasticity in the sailfin molly (Pisces: Poeciliidae). I. Field experiment. Evolution 44:143-156
- 12 **Trexler, J.**, J. Travis, and M. Trexler. 1990. Phenotypic plasticity in the sailfin molly (Pisces: Poeciliidae). II. Laboratory experiments. Evolution 44:157-167
- 11 Travis, J., **J. Trexler**, and M. Mulvey. 1990. Multiple paternity and its correlates in female *Poecilia latipinna* (Pisces, Poeciliidae). Copeia 1990:722-729
- 10 **Trexler, J.** 1990. The genetic architecture of behavior in fishes. Annales Zoologici Fennici 27:149-163
- 9 Travis, J., J. A. Farr, M. McManus, and J. Trexler. 1989. Environmental effects on adult growth patterns in the male sailfin molly, *Poecilia latipinna* (Poeciliidae). Environmental Biology Fishes 26:119-127
- 8 **Trexler, J.**, C. McCulloch, and J. Travis. 1988. How can the functional response best be determined? Oecologia 76:206-214
- 7 **Trexler, J.** 1988. Hierarchical organization of genetic variation in the sailfin molly, *Poecilia latipinna* (Pisces, Poeciliidae). Evolution 42:1006-1017
- 6 Farr, J., J. Travis, and **J. Trexler**. 1986. Behavioral allometry and intrademic variation in sexual behavior of the sailfin molly *Poecilia latipinna*. Animal Behaviour 34:497-509

- 5 Travis, J., and **J. Trexler**. 1986. Interactions among factors affecting growth, development and survival in experimental populations of *Bufo terrestris*. Oecologia 69:110-116
- 4 **Trexler, J.** 1985. Density-dependent parasitism by a eulophid parasitoid: tests of an intragenerational hypothesis. Oikos 44:415-422
- 3 **Trexler, J.** 1985. Variation in the degree of viviparity in the sailfin molly, *Poecilia latipinna*. Copeia 1985:999-1004
- 2 **Trexler, J.** 1984. Aggregative response and homing in a chrysidid wasp. Oikos 43:133-137
- 1 Travis, J., and **J. Trexler**. 1984. Investigations on control of the color polymorphism in *Pseudacris ornata*. Herpetologica 40:252-247

Edited Books and Journal Issues

- Doren, R. F., J. C. Trexler, M. C. Harwell, and G. R. Best (Editors) 2009.
 Ecological Indicators for Everglades Restoration. Ecological Indicators 9(S1):S1-S160 (special issue with 14 articles)
- 2 **Trexler, J. C**, E. E. Gaiser, and D. Childers (Editors) 2006. Interaction of hydrology and nutrients in controlling ecosystem function in oligotrophic coastal environments of South Florida. Hydrobiologia 569:1-544 (special issue with 37 articles)
- Busch, D. E. and J. C. Trexler (Editors) 2003. Monitoring Ecosystems: Interdisciplinary Approaches for Evaluating Ecoregional Initiatives. Island Press, Washington. 447pp

Book Chapters

- Ogden, L.A., J.C. Trexler, D.L. Childers, E.E. Gaiser, and K.Z.S. Schwartz.
 2019. Chapter 2: The Everglades as Icon, in Childers, D.L., E.E. Gaiser and L.A.
 Ogden (eds.) The Coastal Everglades: The Dynamics of Social-Ecological
 Transformation in the South Florida Landscape. Oxford University Press, NY.
- 18 Sklar, F.H., J.M. Beerens, L.A. Brandt, C. Coronado-Molina, S.E. Davis, T.A. Frankovich, C.J. Madden, A. Mclean, J.C. Trexler, and W. Wilcox. 2019. Chapter 8: Back to the Future Rebuilding the Everglades, in Childers, D.L., E.E. Gaiser and L.A. Ogden (eds.) The Coastal Everglades: The Dynamics of Social-Ecological Transformation in the South Florida Landscape. Oxford University Press, NY.

- 17 **Trexler, J. C.**, and W. F. Loftus. 2016. Invertebrates of the Florida Everglades, pp 321-356. In D. Batzer and D. Boix, eds. Invertebrates in Freshwater Wetlands: An International Perspective on their Ecology. Springer, NY.
- 16 Trexler, J. C., E. E. Gaiser, J. S. Kominoski, and J. Sanchez. 2015. The role of periphyton mats in consumer community structure and function in calcareous wetlands: Lessons from the Everglades. In: J. A. Entry, A. D. Gottlieb, K. Jayachandrahan and A. Ogram, eds. Microbiology of the Everglades Ecosystem, Science Publishers, CRC Press, pp 155-179.
- 15 Gaiser, E., A. Gottlieb, S. Lee, and J. C. Trexler. 2015. The importance of species-based microbial assessment of water quality in freshwater Everglades wetlands. In: J. A. Entry, A. D. Gottlieb, K. Jayachandrahan and A. Ogram, eds. Microbiology of the Everglades Ecosystem, Science Publishers, CRC Press, pp 115-130.
- Kaller, M. D., W. E. Kelso, and J. C. Trexler. 2013. Chapter 6. Wetland Fish Monitoring and Assessment, pp. 197-263. In: J. T. Anderson and C. A. Davis (eds) Wetland Techniques, Volume 2: Organisms. Springer ISBN 978-94-007-6930-4
- Gaiser, E. E., J. C. Trexler, and P. R. Wetzel. 2012. Chapter 17. The Florida Everglades, pp 231-252. In: Batzer D. P., and A. H. Baldwin (eds) Wetland Habitats of North America: Ecology and Conservation Concerns. Berkeley: Univ. California Press
- 12 Jopp, F., D. L. DeAngelis, and J. C. Trexler. 2011. Chapter 18. Trophic Cascades and Food Web Stability in Fish Communities of the Everglades, pp 257-268. In: Jopp, F., H. Reuter, and B. Breckling (Eds.) Modelling Complex Ecological Dynamics- An Introduction into Ecological Modeling for Students, Teachers & Scientists. Springer-Verlag, Berlin, Heidelberg
- 10 **Trexler, J. C.**, D. L. DeAngelis, and J. Jiang. 2011. Chapter 9. Community assembly and mode of reproduction: predicting the distribution of livebearing fishes, pp 95-108. In: Evans, J., A. Pilastro, and I. Schlupp, Eds. Ecology and Evolution of Poeciliid Fishes. University of Chicago Press
- 9 Chick, J. H., and J. C. Trexler. 2010. Box 10.5. Habitat Improvement, Ecosystem Restoration, and What to Measure: The Case of the Everglades, pp 313-315. In W.A. Hubert and M. Quist (editors) Inland Fisheries Management in North America, 3rd edition. American Fisheries Society, Bethesda, MD
- 8 **Trexler, J. C.**, and D. L. DeAngelis. 2010. Modeling the evolution of complex reproductive adaptations in poeciliid fishes: Matrotrophy and superfetation, pp

231-240. In Uribe, M.C., and H. J. Greer, Eds. Viviparous Fishes II. New Life Publications, Homestead, FL

- 7 DeAngelis, D. L., **J. C. Trexler**, and D. D. Donalson. 2010. Competition dynamics in a seasonally varying wetland: importance of temporal variability and spatial heterogeneity, pp 1-13. In S. Cantrell, C. Cosner, and S. Ruan (eds), Spatial Ecology. Chapman Hall/CRC Press
- 6 **Trexler, J. C.**, W. F. Loftus, and J. Chick. 2003. Setting and monitoring restoration goals in the absence of historical data: The case of fishes in the Florida Everglades, pp 351-376. In D. Busch and J. C. Trexler. Monitoring Ecoregional Initiatives: Interdisciplinary Approaches for Determining Status and Trends of Ecosystems. Island Press, Washington DC.
- 5 **Trexler, J. C.** and D. E. Busch. 2003. Monitoring, assessment, and ecoregional initiatives: a synthesis, pp 405-424. In D. Busch and J. C. Trexler. Monitoring Ecosystems: Interdisciplinary Approaches for Evaluating Ecoregional Initiatives. Island Press, Washington DC.
- 4 D. E. Busch and **Trexler, J. C**. 2003. The importance of monitoring in regional ecosystem initiatives, pp 1-23. In D. Busch and J. C. Trexler. Monitoring Ecosystems: Interdisciplinary Approaches for Evaluating Ecoregional Initiatives. Island Press, Washington DC.
- 3 Trexler, J. C., W. F. Loftus, C. F. Jordan, J. Chick, K. L. Kandl, T. C. Ruetz, and O. L. Bass. 2001. Ecological scale and its implications for freshwater fishes in the Florida Everglades. Pp. 153 – 181, in J. W. Porter and K. G. Porter (eds.) The Everglades, Florida Bay, and Coral Reefs of the Florida Keys: An Ecosystem Sourcebook. CRC, Boca Raton, FL.
- Childers, D.L., R.D. Jones, J. Trexler, C. Buzzelli, S. Dailey, A.L. Edwards, E. Gaiser, K. Jayachandaran, A. Kenne, D. Lee, J. Meeder, M.Nair, J. Pechmann, A. Renshaw, J. Richards, M. Rugge, L. Scinto, P. Sterling, and W. Van Gelder. 2001. Quantifying the effects of low-level phosphorus enrichment on unimpacted Everglades wetlands with in situ flumes and phosphorus dosing. Pp. 127 152, in: J. W. Porter and K. G. Porter (eds.) The Everglades, Florida Bay, and Coral Reefs of the Florida Keys. CRC, Boca Raton
- 1 **Trexler, J.** 1989. Phenotypic plasticity in poeciliid life histories. Pp. 201-214, in G. Meffe and F.F. Snelson, Jr. (eds.), Ecology and Evolution of Poeciliid Fishes. Prentice Hall, Englewood Cliffs, NJ

Selected Technical Reports and Proceedings

19-21 Co-author of South Florida Ecosystem Restoration Task Force Bi-annual reports to the US Congress. System-wide Ecological Indicators for Everglades Restoration. 2006 through 2018. https://evergladesrestoration.gov/sweir/

- 18 Sikkema, D., et al. 2005. An Assessment of the Interim Operational Plan. South Florida Natural Resources Center, Everglades National Park. Report to Congress. 61pages
- 17 Trexler, J. C., and W. F. Loftus. 2005. Population Structure and Spatial Delineation of Consumer Communities in the Everglades National Park. Report to US Geological Survey Cooperative No. CA 1445-CA09-95-0112, Subagreement No. 1
- 16 **Trexler, J. C.**, W. F. Loftus, and K. C. Tarboton. 2004. Fish habitat suitability index, Chapter 6. In: Tarboton, K. C. et al. Habitat suitability indices for evaluating water management alternatives. Report: South Florida Water Management District.
- 15 Trexler, J. C. 2002. Response of invertebrates and fish to changes in phosphorus levels in the central and southern Everglades, 167 – 229. In Newman, S. et al. Effects of changes in phosphorus levels on the central and southern Everglades. EPA Cooperative Agreement #CR827565-01-0
- 14 Trexler, J. C., T. Tuten, E. Gaiser, and D. Childers. 2001. Patterns of Fish and Decapod Crustacean Assemblages Along Gradients of Nutrient Enrichment in the Florida Everglades, Chapter 5 in Childers, D. et al. Using Transect Sampling to Relate a Phosphorus Addition Flume Study to Long-term Water Quality Impacts in Everglades Marshes. Final Report to Everglades National Park, Cooperative Agreement CA 5280-9-9003.
- 13 **Trexler, J. C.** and W. F. Loftus. 2001. Analysis of relationships of Everglades Fish with Hydrology Using Long-Term Databases from the Everglades National Park. Cooperative Agreement CA5280-8-9003, 101pp.
- 12 Loftus, W. F., M. C. Bruno, K. J. Cunningham, S. A. Perry, and J. C. Trexler. 2001. The ecological role of the karst wetlands of southern Florida in relation to system restoration, pp 8-15. In U.S. Geological Survey Karst Interest Group Proceedings, St. Petersburg, FL, Feb. 13-16, 2001. Water-Resources Investigations Report 01-4011.
- Stober, Q.J., K. Thornton, R. Jones, J. Richards, C. Ivey, R. Welch, M. Madden, J. Trexler, E. Gaiser, D. Scheidt, and S. Rathbun. 2001. South Florida Ecosystem Assessment: PhaseI/II (Technical Report)- Everglades Stressor Interactions: Hydropatterns, Eutrophication, Habitat Alteration, and Mercury Contamination. EPA 904-R-01-003. http://www.epa.gov/Region4/sesd/reports/epa904r01003/p2treport.pdf

- 10 **Trexler, J.**, and F. Jordan. 1997. Fish and macroinvertebrate population studies in the Water Conservation Areas. South Florida Water Management District contract no. C-E6636.
- 9 Loftus, W. F., **J. Trexler**, and R. D. Jones. 1998. Mercury transfer through an Everglades aquatic food web. Florida Department of Environmental Protection contract no. SP-329.
- 8 Stober, Q.J., D. Scheidt, R. Jones, K. Thornton, L. Gandy, D. Stevens, J. Trexler, and S. Rathbun. 1998. South Florida Ecosystem Assessment: Final Technical Report, Phase I. Monitoring for Adaptive Management. EPA 904-R-98-002, http://www.epa.gov/region4/sesd/reports/epa904r98002.html
- Trexler, J., W. F. Loftus, O. Bass, and F. Jordan. 1997. High water assessment: The consequences of hydroperiod on marsh fish communities, pp. 103 - 123. T.
 V. Armentano, ed. Proceedings of the Conference: Ecological Assessment of the 1994 - 1995 High Water Conditions in the Southern Everglades. Everglades National Park, Homestead, FL.
- 6 Loftus, W. F., O. L. Bass, and J. C. Trexler. 1997. Long-term monitoring in the Everglades: looking beyond the Park boundary. Proceedings of the 9th Conference on Research and Resource Management in Parks and Public Lands, The George Wright Society, pp 389-392.
- 5 **Trexler, J.**, L. Richardson, and K. Spitze. 1996. Effects of Hurricane Andrew on the structure and function of Everglades aquatic communities. Everglades National Park, CA5280-3-9014, 206pp.
- 4 **Trexler, J.** and T. Turner. 1996. Molecular genetic status of the Ouachita and Ozark populations of the longnose darter, *Percina nasuta*. U.S. Forest Service report, Cooperative Agreement No. 19-91-074
- Roberts, Ballantine, Buxton, Dayton, Crowder, Milon, Orbach, Pauly, Trexler,
 Walters. 1995. Review of the use of maritime fishery reserves in the U.S.
 Southeastern Atlantic. NOAA Technical Memorandum NFS-SEFSC-376, 31pp.
- 2 Howard, K.S., W.F. Loftus, and **J. Trexler**. 1995. Seasonal dynamics of fishes in artificial culvert pools in the C-111 basin, Dade County, Florida. Final Report to Everglades National Park, Cooperative Agreement #CA5280-2-9024, 67pp + 5 appendices.
- 1 Travis, J., and **J. Trexler**. 1987. Regional variation in habitat requirements of the sailfin molly with special reference to the Florida Keys. FL Game & FW Fish Comm Nongame Wildl Prog Tech Rep No 3, 47 pp

GRANTS AND CONTRACTS

(Trexler is sole PI unless noted otherwise; *PhD student's award)

Current Projects

2018-2020	Impacts of Recent Fish Invasions on Native Fish Diets in the Shark River Slough: Repetition of Diet Study from 1977 to 1995. National Park
	Service, \$174,508.
2017-2021	Freshwater Fish Monitoring in Water Conservation Area 3 and Everglades National Park, National Park Service, \$1,285,129
2017-2021	Analyzing the Impact of Changing Hydrologic Conditions along the
2017 2021	Boundary of ENP Treyler and Gaiser National Park Service \$839.349
2017-2020	Aquatic Fauna & Periphyton Production Data Collection. Trexler and Gaiser, USACE, \$3,569,813.
2019-2021	Response of Fish to the DECOMP Physical Model. SFWMD, \$400,000.
2020-2021	Quantification of the aquatic faunal community and its effect on water
	quality in the Everglades Stormwater Treatment Areas (STAs). South
	Florida Water Management District (SFWMD), \$341,820.
2018-2020	Investigation of the Effects of Abundant Faunal Species on P Cycling in
	the Everglades Storm Water Treatment Areas (STAs). (SFWMD),
	\$266,300.
2016-2020	Office of Oecologia Editor-in-Chief, contract amendment. Springer-
	Verlag GmbH Berlin Heidelberg, \$168,060.
2020-2021	FIU ForEverglades Student Research Fund. Everglades Foundation, Peter
	Flood* with Trexler, \$25,000.
2019-2021	Investigating the population dynamics of an avian apex predator across an urban gradient, Funded by Florida Ornithological Society, Donna
	Molfetto* with Trexler. \$2.409.
2018-2020	Fairchild Tropical Botanical Gardens (FTBG) Graduate Student Fellowship. FTBG, Donna Molfetto* with Trexler, \$53,000.

Completed Projects

- 2018-2019 Investigating the population dynamics of an avian apex predator across an urban gradient, Georgia Ornithological Society, Donna Molfetto* with **Trexler**, \$3,663.
- 2017-2019 Response of Fish to the DECOMP Physical Model. USACE, \$165,000
- 2017-2018 Otolith analysis of Everglades fish. SFWMD, \$9,984.
- 2016-2018 Incorporating Early Life History & Recruitment in Analysis of Population Dynamics of Wetland Fishes. George Maier Fund, American Killifish Association. John Gatto* with **Trexler**, \$3,315.
- 2015-2017 Quantification of the aquatic faunal community and its effect on water quality in the Everglades Stormwater Treatment Areas (STAs). SFWMD, **Trexler** and Rehage \$424,614
- 2015-2017 Assessing near-field and landscape scale ecological effects of the modified water deliveries and comprehensive Everglades restoration plan projects in Northeast Shark River Slough, Everglades National Park. Scinto, Gaiser,

	Trexler , Richards, Gann - \$300,000 (\$36,900 to Trexler lab for 2015-2016)
1996-2017	Monitoring fishes and decapod crustaceans in the Everglades. National
	Park Service - \$3,548,109 (\$256,109 for 2014-2015)
2003-2017	Analyzing the Impact of the Intermediate Operating Plan (IOP) in the
	Eastern Everglades, Everglades National Park. National Park Service -
	\$1,786,309 (\$198,309 for 2016-2017)
2009-2016	Response to Fish to the DECOMP Physical Model. U.S. Geological Survey - \$589,000 (\$129,000 for 2015-2016)
2011-2017	Aquatic Fauna and Periphyton Production Data Collection. US Army
	Corps of Engineers. Trexler , Gaiser - \$1,297,779 (\$199,148 to Trexler lab for 2016-2017)
2013-2015	Office of Oecologia Editor-in-Chief. Springer-Verlag GmbH Berlin Heidelberg - \$85,727
2010-2014	A Synthesis of Everglades Freshwater Research. Everglades Foundation - \$71,202
2011-2014	Tamiami Bridge Project. National Park Service. Subcontract to Trexler lab - \$65,000.
2009-2013	Refining the prey base performance measure. US Army Corps Engineers - \$140,000
2008-2012	Effects of Landscape Features and Connectivity on Dispersal of Fish
	Across the Everglades Landscape. \$161,000 + \$28,000 in flight costs
2011-2012	Ecological Effects of the Modified Water Deliveries and the
	Comprehensive Everglades Restoration Plan in Northeast Shark River
	Slough, Everglades National Park, Everglades National Park, Gaiser, et al. - \$58,706 subcontract to Trexler lab
2008-2011	Aquatic Fauna and Periphyton Production Data Collection. So. Florida
	Water Management District. Trexler, Gaiser, Lorenz - \$1,450,000
2009-2011	Water Quality/Soils and Ecological Effects of Pilot Spreader Swales along
	Tamiami Trail in ENP - Everglades National Park, Gaiser, Scinto,
	Richards and Trexler - \$180,000 subcontract to Trexler lab
2006-2008	Summary and synthesis of aquatic community data collected for
	Everglades National Park. Everglades National Park - \$103,000
2006-2008	Monitoring, modeling and assessment of the Everglades ecosystem: R-
	EMAP Phase III. US Environmental Protection Agency. Richards, Gaiser,
	Cai, Philippi, and Trexler - \$22,600 subcontract to Trexler lab
2006-2008	Development of integrated sampling of fishes in forested wetlands in
	south Florida with emphasis on food web structure: Big Cypress and
	mangrove forest food-web diagnosis. US Geological Survey, subcontract
	to Trexler lab - \$75,000
2006-2008	Developing Ecosystem Response Indicators to Hydrologic and Nutrient
	Modifications in Northeast Shark River Slough, Everglades National Park.
2004 2007	Gaiser, Childers, I rexier, and Scinto - \$47,677 subcontract to Trexler lab
2004-2007	Aquatic Fauna and Periphyton Production Data Collection. So. Florida
	water Management District. Trexler , Gaiser, Lorenz, Philippi -
	\$1,100,000 (\$448,225 to 1 rexter lab)

2000-2006	Coastal oligotrophic ecosystems research - the coastal Everglades. National Science Foundation LTER. Childers, Boyer, Fourquerean, Jaffè, Jones, Trexler - \$4 200 000 (\$516 032 to Trexler Jab)
2006-2007	Coastal oligotrophic ecosystems research - the coastal Everglades: Bridge funding supplement. National Science Foundation LTER. Trexler -
1995-2005	Population structure and spatial delineation of consumer communities in the Everglades National Park. National Biological Service/US Geological Survey - \$181,000
1996-2003	Numerical interpretation of class III narrative nutrient water criteria for Everglades wetlands. U.S. Dept. of Interior & South Florida Water Management District, Jones, Trexler, Childers and 8 co-PIs - \$5,200,000
2003	Aquatic Fauna Regional Populations Baseline Characterization. So. Florida Water Management District. Trexler - \$49,000
2003	Comparative analysis of crayfish sampling techniques. So. Florida Water Management District. Trexler, Dorn - \$49,000
2000-2003	Influence of hydrology on life-history parameters of common freshwater fishes from southern Florida. US Geological Survey -BRD. Trexler and W. Loftus - \$154,000
	Experimental studies of population growth and predator-prey interactions of fishes in the Everglades National Park. National Biological Service/US
1999-2000	Effects of changes in phosphorus level on the central and southern Everglades, South Florida Water Management District - \$40,390
1999-2000	Transect sampling along phosphorus gradients in the Florida Everglades. 7 co-PIs - \$25,000 to Trexler lab Identification of genetic markers for a Y-linked trait. National Institutes of
1998-2000	Health - Minority Biomedical Research Support Program - \$145,000 Environmental monitoring in the Florida Everglades. US Environmental Protection Agency, B. Jones PL - \$55,000 to Trevler lab
1998-2000	Dispersal and colonization of hydrological refuges by aquatic animals in the Everglades National Park: The Rocky Glades. Everglades National Park, Trexler, et al - \$82,000
1998	Analysis of relationships of Everglades fish with hydrology using long- term databases from the Everglades National Park. Everglades National Park - \$10.800
1998	The role of grazing in food web relationships of the Rocky Glades: a comparison of short and long hydroperiod marshes. Everglades National Park. Trexler and S. Perry - \$24,900
1995-1998	Fish and aquatic macroinvertebrate population studies in the water conservation areas. South Florida Water Management District. Trexler and F. Jordan - \$225,000
1995-1998	Mercury transfer through an Everglades aquatic food web. Florida Department of Environmental Protection. Trexler, R. Jones, B. Fry, and W. Loftus - \$157,000

	Effects of Hurricane Andrew on the structure and function of Everglades aquatic communities.
	Everglades National Park. Trexler, L. Richardson, and K. Spitze - \$270,000
1993-1994	Prediction of ecological effects on fishes of C-111 canal modification. Everglades National Park - \$16,000
1992-95, 99	Cruise on R/V Bellows for FIU undergraduates. Florida Institute of Oceanography - \$5,400/yr
1992	Genetic mapping of the Y-chromosome of sailfin mollies. FIU Foundation - \$11,372
1991-1994	Conservation genetics of two threatened species from the Ouachita National Forest. U.S. Forest Service - \$66,031
1991-1994	Evaluation of maternal-fetal effects in fish of anthropogenic chemicals. U. S. Environmental Protection Agency. W. Benson and Trexler - \$298,270 (turned over to co-PI upon move to Florida)
1990-1991	Use of flooded wetlands by stream fishes in northern Mississippi. U. S. Army Corps of Engineers Waterways Experiment Station. Trexler and G. Miller - \$110,000
1990	Studies of larval fish in the Yazoo River Basin. U.S. Army Corps of Engineers Waterways Experiment Station. Trexler and G. Miller - \$4,100
1985	Regional Variation in Habitat Requirements of the Sailfin Molly with Special Reference to the Florida Keys. Nongame Wildlife Program, Florida Game and Fresh Water Fish Commission. J. Travis and Trexler - \$9650

Graduate and Post-Graduate Supervision

Post-docs supervised and their projects

- Matthew Pintar (2019-preent) Implications of synchronization of population and community dynamics in Everglades fishes. Ph.D. University of Mississippi.
- Mark Barton (18-present) Analysis of fish impacts on phosphorus cycling in treatment wetlands. Ph.D. Florida International University
- Alex Mercado Molina (2016-19) Efficiency of food web response to nutrient addition in the Everglades. Ph.D. University of Puerto Rico, Río Piedras. Current: Principal Investigator & Vice-President, Sociedad Ambiente Marino, San Juan, Puerto Rico.
- Alain Duran (2018-19) Invasive species impacts in Everglades National Park. Ph.D. FIU. Current: FIU, visiting professor
- Nathan Evans (2016-18) Role of bioturbation in phosphorus budgets in the Everglades Storm Water Treatment Areas (STAs). Ph.D. University of Notre Dame. Current: USFWS
- Joseph Parkos (08-17) Effects of landscape on fish dispersal. Ph.D. University of Illinois. Current: Director of Kaskaskia, Ridge Lake, Sam Parr Biological Stations, Illinois Natural History Survey.
- J. Matt Hoch (09-12) Habitat connectivity and effects of permanent aquatic refuges on spatial ecology of fish communities. Ph. D. SUNY, Stony Brook; Current: Assistant Professor, Nova Southeastern University

Amanda Banet (10-11) Ecological forecasting models for management. Ph.D. UC, Riverside. Current: Assistant Professor, California State University, Chico

- Eric Sokol (09-11) Effects of environmental gradients on macroinvertebrates. Ph.D. Virginia Tech University. Current: Post-doctoral Scholar, Institute of Arctic and Alpine Research, University of Colorado.
- Brooke Sargeant (06-08) Food-web patterns in the Everglades revealed by stable isotope analysis of data collected for EPA-REMAP, Ph.D. Georgetown Univ.; Current: Law School, Georgetown University.
- Tish Robertson (04-07) CERP trophic ecology monitoring. Ph.D. Rutgers University, Newark; Current: Biological Scientist, Virginia Department of Environmental Quality.
- Alexander Hernandez (05-06) Food-web patterns in short-hydroperiod marshes, Ph.D. Rutgers University, New Bruswick. Current: Asistant Professor, Kutztown University.
- Nathan Dorn (03-05) Role of crayfish in Everglades foodweb. Ph.D. Michigan State Univ. Current: Assoc. Prof., Florida Atlantic University
- Doug Creer (03-05) Population genetics Everglades fishes. Ph.D. Washington Univ., St Louis. Current: Professor of Biology, Concord Univ, West VA.
- Jennifer Rehage (03-04) Impact of canals on dispersal and abundance of non-native fishes in South Florida. Ph.D. Univ. of Kentucky. Current: Associate Prof., FIU
- Carl Ruetz (01-02) Population dynamics of Everglades fishes. Ph.D. Univ. of Minn. Current: Assoc. Prof., Grand Valley State Univ., MI.
- Tom McElroy (99-02) Population genetics of Everglades fishes. PhD Miss. State Univ. Current: Assoc. Prof, Kennesaw State Univ, Ga.
- John Chick (97-00) Size-structured predator-prey interactions in Everglades marshes. Ph.D. Univ. of Georogia. Current: Director, Great Rivers Research Station., Illinois Natural History Survey.
- Joe Pechmann (97-99) Ecology of macroinvertebrates in Everglades wetlands. Ph.D. Univ. of Georgia. Current: Assoc. Prof., Western Carolina Univ.
- Karen Kandl (97-99) Population genetics of Everglades aquatic animals. Ph.D. Univ. of Georgia. Current: Assistant Director Highlands Biological Station, Western Carolina Univ.
- Andrew Turner (95-97) Ecology of macroinvertebrates in Everglades wetlands. Ph. D. Michigan State Univ. Current: Professor, Clarion University, Clarion, PA.

Ph.D. Students and their projects

Peter Flood, Ph.D. candidate

- Nicole Strickland, Ph.D. candidate
- Marco Fernadez, Ph.D. candidate
- Alan Mock, Ph.D. candidate
- Hyo Won Lee, Ph.D. candidate
- Donna Molfetto, Ph.D. awarded 12/20. Investigating the population dynamics of an avian apex predator across an urban gradient. Current: FIU
- John Gatto, Ph.D. awarded 12/19. Incorporating early life history and recruitment in the analysis of population dynamics of marsh fish. Current: Post-doc, Great Rivers Research Station, Illinois Natural History Survey.

- Jessica Sanchez, Ph.D. awarded 9/18. The adaptive evolution of herbivory in freshwater systems. Current: Editorial Assistant, Oecologia.
- Michael Bush, Ph.D. awarded 4/17. Experimental analysis of the effects of hydroscape structure on fishes in a dynamic wetland. Current: Education and Outreach Coordinator, Audubon Dakota.
- Liz Harrison, Ph.D. awarded 4/14. Analyzing invasion success of the Mayan cichlid (*Cichlasoma urophthalmus*) in southern Florida. Current: Research Associate, FIU; Assistant Professor, Georgia Gwinnett College
- Clifton Ruehl, Ph.D. awarded 8/10. Controls and impacts of snails as grazers in an oligotrophic wetland. Current: Assistant Professor, Columbus State University
- Shawn Liston, Ph. D. awarded 12/04. Defining the role of floating periphyton mats in shaping food-web dynamics in the Florida Everglades. FIU Presidential Fellowship, EPA-STAR Fellowship. Current: Research Scientist, National Audubon Society
- William Loftus, Ph. D. awarded 12/00. Bioaccumulation of mercury in Everglades food webs. Current: (Retired) Research Scientist, USGS-Biological Resources Division, FL-Caribbean Science Center
- Tom Turner, Ph. D. awarded 12/96. A comparative study of life history and gene flow in darters (Pisces: Percidae). Current: Professor, Dept. of Biology, University of New Mexico
- Michael Schirripa, Ph. D. awarded, 4/96. Evaluation of growth rate estimation from fish otoliths using a striped bass bioenergetics model. Current: Stock Assessment, Fisheries Biologist, NOAA, NMFS, Miami, FL

M.S. Students and their projects

- Kelly Brown, M.S. awarded 4/2020. Taking Apart the Time Machine: Investigating space-for-time substitution modeling in the Florida Everglades. Current: High School Teacher, Asheville NC.
- Alex Ontkos. M.S. awarded 12/2018. Habitat use of three abundant predatory fish species in the freshwater Everglades. Current: Senior technician, Florida Fish and Wildlife Conservation Commission.
- Sarah Bornhoeft, M.S. awarded 8/2016. Influence of experimental sheet flow on aquatic food webs of the central Everglades. Current: Staff Scientist, SFWMD.
- Ann Hejuelos, M. S. awarded 12/2012. Spatial and temporal patterns in the distribution, behavior, and activity of fishes in canals of the Everglades. Current: Ecologist, USGS Wetland and Aquatic Research Center, New Orleans, LA.
- Robin Abbey-Lee, M.S. awarded 8/12. Relative Role of Dispersal Dynamics and Competition in Niche Breadth. Current: Research Engineer, Linköping University, Sweden.
- Raul Urgelles, M. S. awarded 4/10. Community dynamics of dragonfly naiads in Everglades wetlands. Current: Biological Scientist, NPS
- Adam Obaza, M. S. awarded 9/09. Use of drift fence encounter rate to estimate fish movement rate. Current: Fisheries Scientist, NOAA, NMFS
- David Green, M. S. awarded 8/07. Community structure and physiological stresses of oligohaline zone fishes in South Florida. Current: lecturer, University of Miami.

- Charles Goss, M.S. awarded 12/06. Dispersal-competition trade-off in two fish coexisting in the Everglades. Current: Statistical Data Analyst and Lecturer, School of Medicine, Division of Biostatistics, Washington University, St. Louis.
- Jade Williams, M.S. awarded 4/04. Effect of productivity and hydroperiod on food-chain length in the Everglades. EPA-STAR Fellowship. Current: Environmental Consulting Firm, NY.
- Shawna Baker, M.S. awarded 4/04. Effects of hydroperiod on life-history parameters of *Lucania goodei* (Fundulidae) in the Florida Everglades. Current: Biol. Sci., Texas Game and Fish.
- Lawrence Lopez, M.S. awarded 4/04. Effect of seed predation by rodents on plant recruitment on islands in Lago Guri, Venezuela. Current: Biological Scientist, FIU.
- Tim Konnert, M.S. awarded 12/02. Effects of hydrology on life age-specific vital rates of livebearing fishes in the Everglades, Fisheries Biologist, Federal Energy Regulatory Com., Washington, DC.
- Kyoko Nakamura, M.S. awarded 12/01. Pedigree analysis of genetic markers in sailfin mollies. Current: Biology Technician, USDA Tropical Horticulture Institute
- Robert Kobza, M.S. awarded 5/01. Community structure of fishes inhabiting hydrological refuges in a threatened karstic habitat. Current: Biologist, City of Boulder, Co.
- Xavier Pagan, M.S. awarded 12/00. Effects of water level and predation on survival of spotted sunfish larvae in the Florida Everglades. Current: Biologist, FL DOT
- Pamela Geddes, M.S. awarded 9/99. Role of grazers in regulation of periphyton dynamics. Current: Associate Prof., Northeastern Illinois University.
- Ryan Taylor, M.S. awarded 9/99. Experimental study of size-structured predator-prey relationships. Current: Professor, Salisbury University, MD.
- Adrian Jelenzsky, M.S. awarded 9/99. Life history variation of mosquitofish along nutrient gradients. Current: middle-school teacher.
- Kenneth Howard, M. S. awarded 9/95. Seasonal dynamics of fishes in artificial culvert pools in the C111basin, Dade County, Florida. Current: Environmental Analyst, Loxahatchee Water Management District, FL
- Dana Neff, M. S. awarded 9/94. Fat storage fluctuations as a function of seasonality and reproduction in the sailfin molly, *Poecilia latipinna*, in South Florida. Current: H.S. teacher
- Andrea Dinep, M. S. awarded 12/91. Patterns of multiple paternity in the sailfin molly, *Poecilia latipinna*. Current: Homemaker