

## CURRICULUM VITAE

Bette A. Loiselle  
 Director, Tropical Conservation and Development Program  
 Center for Latin American Studies &  
 Professor, Department of Wildlife Ecology and Conservation  
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**Education**

Ph.D. University of Wisconsin, Madison, WI; Zoology (major), Botany (minor), December 1987.  
 M.S. University of Illinois, Urbana, IL; Biology, August 1981.  
 B.A. University of Illinois, Urbana, IL; Biology, August 1979.

**Research Interests**

Tropical Ecology/Conservation Biology. Ecology of seed dispersal from plant and animal perspectives; population dynamics of birds; spatial structure and social organization of leks and consequences for reproductive skew and population structure in manakins; applications of Geographic Information Systems for biodiversity research and conservation.

**Positions (post-doctoral)**

Director (8/11 to present), Tropical Conservation and Development Program, Center for Latin American Studies, University of Florida, Gainesville.  
 Professor (8/11 to present), Department of Wildlife Ecology and Conservation, University of Florida, Gainesville.  
 Director (2/10 to 8/11), Division of Environmental Biology, National Science Foundation, Washington, D.C.  
 Adjunct Professor (2/10 to present), Department of Biology, University of Missouri, St. Louis.  
 Professor (4/05 to 2/10), Department of Biology, University of Missouri, St. Louis.  
 Program Officer (9/06 to 8/08), Division of Environmental Biology, National Science Foundation, Washington, D.C. (2-year detail from UM-St. Louis to NSF)  
 Associate Professor (8/96 to 3/05), Department of Biology, University of Missouri, St. Louis.  
 Director (7/97 to 8/03), International Center for Tropical Ecology, University of Missouri, St. Louis.  
 Conservation Fellow (7/03 to present), Conservation Institute, Saint Louis Zoo.  
 Research Associate (1/99 to present), Missouri Botanical Garden, St. Louis, MO.  
 Coordinator, Ecología de Ecosistemas Amazônicos (1999, 2000), Tropical Biology: an ecological approach (1988, 1990, 1991), Organization for Tropical Studies, Duke University, Durham, NC.  
 Assistant Professor (8/90 to 7/96), Department of Biology, University of Missouri, St. Louis.

Research Associate (Adjunct) (1/88 to 7/90), Natural Resources Research Institute, University of Minnesota, Duluth.

Naturalist (1987-1990), Betchart Expeditions, Cupertino, CA.

### **Honors/Awards**

C. Brice Ratchford Memorial Fellowship Award, University of Missouri, 2005.

Fulbright Scholar, Argentina, May-August 2004.

Distinguished Visiting Professor, University of Miami, February 1998.

### **Teaching Experience (post-doctoral)**

*Graduate courses at UM-St. Louis:* Theory and Application of Conservation Biology; Public Policy of Conservation and Sustainable Development (with E. Silva, Political Science); Application of Geographic Information Systems for Conservation Research; Ecological Research in Temperate Zones (field ecology course); Seminar in Frugivory and Seed Dispersal; Seminar in Tropical Forest Fragmentation; Coordinator of the Conservation Internship Program at UM-St. Louis.

*Undergraduate courses at UM-St. Louis:* Conservation Biology; Senior Seminar (Emerging Issues in Conservation).

*Graduate courses taught during Fulbright Lecture/Research award in Argentina:* Applications of Geographic Information Systems; Species Distribution Modeling: theory and practice; Independent Research in Geographic Information Systems (all courses taught in Spanish).

*Graduate courses for Organization for Tropical Studies (Duke University):* Ecology and Conservation of Neotropical Birds (coordinator, May 2009); Tropical Biology: an ecological approach (coordinator for 4 courses; long-term visiting faculty on 4 courses; 8 credit hours each); Ecología de Ecosistemas Amazônicos (co-coordinator for first course in Peru in May 1999 and in May 2000; 4 credit hours)

Distinguished Visiting Professor, University of Miami, Habitat- and Landscape-level Approaches to Conservation (2 credit graduate level short course) (February 1998).

Visiting Faculty, Organization for Tropical Studies: Regular participant on Tropical Biology: an ecological approach, Ecología de Poblaciones, and Ecología de Ecosistemas Amazônicos courses (85-3, 88-2; 92-3, 94-10; 96-2; 97-2; 99-1, 99-2, 2001-13).

Visiting Faculty, Universidad de Bolivia-La Paz, Tunquini Field Station, Bolivia: Plant-animal Interactions (July 2002, 10 days; in Spanish).

Visiting Faculty, Instituto de Ecología, Universidad de México-Xalapa: Ornitología Neotropical (July 1998; 1 week; in Spanish)

Visiting Faculty, Tropical Field Biology course for graduate students of Andean countries, Fundación Educación Superior, La Planada Nature Reserve, Colombia (July 1994).

Visiting Faculty, Universidad de Puerto Rico: Special Topics course for graduate students (March 22-29, 1992).

*Special Training for Geographic Information Systems Applications:*

Introduction to ARC/INFO, ESRI 40-hour course, St. Louis, MO (April 1993).

Advanced ARC/INFO, ESRI 40-hour course, St. Louis, MO (April 1994).

UNIX Operations, UM-St. Louis Continuing Education course, 16-hours (February 1995).

## Students

### *Past Advisor:*

- Romo C., M. 1993. Seasonal variation in fruit consumption and seed dispersal by canopy frugivorous bats in lowland mature and successional forests of Peru. M. Sc. thesis, UM-St. Louis. (Completing PhD at Turku, Finland; formerly in charge of RAP Program for Conservation International in Lima, Peru; currently Education and Research Coordinator for ACCA at Los Amigos Biological Station in Manu corridor, Peru).
- Evan Notman. 1994. Factors affecting seed survival in two tropical tree species of a Peruvian rain forest. M. Sc. thesis, UM-St. Louis. (PhD, Miami University; Teaching and coordinating REU Program for the Organization for Tropical Studies, Costa Rica, AAAS Fellow in Environmental Policy, 2003-2004; NSF Program Officer, 2006-2008).
- Melissa Hayes. 1994. Consequences of fruit color polymorphism in *Rubus spectabilis*: an experimental investigation of fruit removal by birds. M. Sc. thesis, UM-St. Louis. (Veterinarian, New York).
- Jaqueline M. Goerck. 1995. Birds of the Atlantic Forest of Brazil: patterns of rarity and species distributions along an elevational gradient. M. Sc. thesis, UM-St. Louis. (PhD, UM-St. Louis; Director, BirdLife International Program in southeast Brazil).
- Mark Yoder. 1996. Fruit and seed morphological traits determining seed-handling behavior in the long-tailed macaque (*Macaca fascicularis*). M. Sc. thesis, UM-St. Louis. (Formerly in charge of Bali Mynah reintroduction program in Indonesia; now working with Field Conservation Program of Dallas Zoo).
- Gillian Bowser. 1998. Genetics, geographics, and prairie dogs: a landscape model of prairie dog (*Cynomys ludovicianus*) dispersal. Ph.D. diss., UM-St. Louis. (formerly Assistant Chief of Resources, Wrangell St. Elias National Park and Preserve Copper Center, Alaska; also on special assignment to the Director of the US National Park Service; currently Associate Dean, Colorado State University).
- Luis Miguel Renjifo. 1998. Effects of the landscape matrix on composition and conservation of bird communities. Ph.D. diss., UM-St. Louis. (Director, Conservation Biology, Alexander von Humboldt Institute [National Biodiversity Institute], Bogota, Colombia; currently Dean, School of Environmental and Rural Studies, Javeriana University, Bogota).
- Jaqueline M. Goerck. 1999. Ecology and evolution of *Drymophila* and *Hypocnemis* antbirds in the Atlantic forests of Brazil. Ph.D. diss., UM-St. Louis. (Director, BirdLife International Program in southeast Brazil).
- Gilbert Barrantes. 2000. Ecology and evolution of *Phainoptila melanoxantha* (Bombycillidae, Aves) in the highlands of Costa Rica and western Panama. Ph.D. diss., UM-St. Louis. (Professor, Biology, Universidad de Costa Rica, San Jose, Costa Rica).
- Sandra Arango. 2002. Edge effects on tree regeneration in the Colombian Andes. Ph. D. diss., UM-St. Louis. (presently Research Assistant, Center for Conservation and Sustainable Development, Missouri Botanical Garden; Colombia).
- Andrea Loayza. 2002. Ecology and movements of frugivorous bats between forest islands and continuous forest in Beni Biological Station and Biosphere Reserve, Bolivia. (Fulbright fellowship for M.Sc. program; currently professor in Bolivia; Bolivia).
- Tibisay Escalona. 2003. Maternal effects on reproductive success in a river turtle (*Podocnemis unifilis*) in southern Venezuela. Ph. D. diss., UM-St. Louis. (Venezuela).
- Tanya Montenegro. 2005. Population characterization and spatial distribution of *Ecuadendron acosta-solisianum* D. A. Neill (Fabaceae-Caesalpinioideae): a highly endangered

- endemic tree species of western Ecuador. M.Sc., UM-St. Louis. (Co-advisor with Dr. David Neill, Missouri Botanical Garden). (Curator, Guayaquil Herbarium, Ecuador).
- P. Daniel Hernandez. 2005. M.Sc. (non-thesis), UM-St. Louis. (Colombia/USA) (currently working for Sierra Club, San Francisco, CA).
- Jose Fabara. 2005. Oil companies in national parks: a case study of Yasuni National Park, Amazonian Ecuador. M.Sc., UM-St. Louis. (Ecuador, Fulbright fellow, 2003-2005).
- C. Daniel Cadena. 2006. Biogeography of *Buarremon* brush-finches (Aves, Emberizinae): Integrating Ecology, Evolution, and Systematics. Ph. D. diss., UM-St. Louis. (Assistant Professor, Biology, Universidad de los Andes, Bogota, Colombia).
- Seema Sheth. 2006. Habitat occupancy of a primate community in Amazonia Ecuador. M.Sc., UM-St. Louis. (Research Analyst, Center for Conservation and Sustainable Development, Missouri Botanical Garden 2006-2008; PhD student, University of Colorado, 2008-present; USA/India).
- Grace P. Servat. 2006. Effect of local and regional factors on foraging ecology of *Polylepis* bird assemblage. Ph. D. diss., UM-St. Louis. (leading non-profit conservation organization in Peru).
- Kimberly Holbrook. 2006. Seed dispersal limitation in a Neotropical nutmeg, *Virola flexuosa* (Myristicaceae): and ecological and genetic approach. Ph. D. diss., UM-St. Louis. (USA) (Spain post-doctoral fellow with Dr. Pedro Jordano, Sevilla, Spain).
- T. Patricia Feria. 2007. Predicting species distributions: effects of range size and niche specialization. Ph. D. diss., UM-St. Louis (Mexico) (CONACyT post-doctoral Fellow, UNAM, Mexico; Assistant Professor, University of Texas-PanAmerican).
- Milton Muldrow. 2007. Breaking down barriers to forest regeneration. M.Sc., UM-St. Louis. (Program Assistant, National Science Foundation; USA).
- Renata Durães. 2008. Spatial and temporal dynamics of lekking behavior and female mate choice in the Blue-crowned Manakin (*Lepidothrix coronata*, AVES: Pipridae). Ph. D. diss., UM-St. Louis. (Brazil) (Post-doctoral associate at UCLA).
- Wendy Tori. 2008. Sexual selection in an exploded lekking species: the white-crowned manakin (*Pipra pipra*). Ph. D. diss., UM-St. Louis. (Peru) (Assistant Professor, Earlham College).
- Andrea Loayza. 2009. Closing the seed dispersal loop for *Guettarda viburnoides* (Rub.): Connecting patterns of avian seed dispersal with population growth in a Neotropical savanna. Ph. D. diss., UM-St. Louis. (Post-doctoral Associate, Universidad de La Serena, Chile).
- Jose Hidalgo. 2010. M.Sc. (non-thesis), UM-St. Louis. (Ecuador) (currently based in San Francisco, CA)
- Karen Bauman. 2010. How does the abundance and distribution of resources affect female raccoon home ranges in an urban park? M.Sc.thesis, UM-St. Louis. (USA) (Research technician, Saint Louis Zoo)
- Jeff Norris. 2011. Urbanization and organization of local and regional avian assemblages in Costa Rica. Ph. D. diss., UM-St. Louis. (USA) (Founder, *Natural Solutions*, conservation NGO in Costa Rica; instructor, Costa Rican high school) (co-advised with Godfrey Bourne)

*Current Advisor:*

- Eliot Miller (USA), Ph.D. student, UM-St. Louis. (NSF Graduate Fellowship) (Ph. D. expected May 2014). (co-advised with Robert Ricklefs)
- Gonzalo Rivas (Ecuador), Ph.D. student, Univ. Florida. (Ph.D. expected May 2015).
- Oscar Gonzalez (Peru), Ph.D. student, Univ. Florida. (Ph.D. expected December 2014).

Hernan Alvarez (Ecuador), M.S. student, Univ. Florida. (M.S. expected December 2014).  
 Flavia Montañó (Bolivia), Ph.D. student, Univ. Florida. (Ph.D. expected May 2018).  
 Farah Carrasco Rueda (Peru), Ph.D. student, Univ. Florida. (Ph.D. expected May 2018).

### **Post-doctoral Associates**

Cesar Cestari (Brazil) (Ph.D. 2012, UNESP - Rio Claro, São Paulo, Brazil). January 2013 – December 2015. Integrating sexual selection and foraging theory. (FAPESP Post-doctoral Fellowship, Brazil).  
 Pedro Blendinger (Argentina) (Ph.D. 2002, Univ. de Buenos Aires, Argentina). Aug. 2004 – January 2005. Recruitment and dispersal limitation for shrubs in the Melastomataceae. University of Missouri Research Award. (CONICET Research Scientist, Argentina).  
 Lucia Lohmann (Brazil) (Ph.D. 2003, UM-St. Louis). Sept. 2003-August 2004. Using ecological niche models for designing conservation action plan in the Andes. Center for Conservation and Sustainable Development, Missouri Botanical Garden. (Professor, Biology, Universidade Sao Paulo).  
 Christine A. Howell (USA) (Ph.D. 2001, UM-Columbia). 2001-2003. Testing the coarse-filter paradigm for conservation. NSF Bioinformatics Post-doctoral Associate. (Research Scientist, Point Reyes Bird Observatory, CA).  
 Ana Cristina Villegas (Colombia) (Ph.D. 1998, UM-St. Louis). 1998-1999. Seed removal and plant fitness in *Palicourea* (Rubiaceae). University of Missouri Research Award. (International Program, US Fish and Wildlife Service).

### **Professional Participation**

#### *Professional Service:*

Organization for Tropical Studies: Chair (Elected), Board of Directors, 2006-2012; Member, Board of Directors, 2012-2014.  
 Instituto Regional de Biodiversidad para Centroamerica y Republica Dominicana: Member, Scientific Council, 2012-2014.  
 Fulbright Scholar Program: Advisory Board, CIES, 2005-present.  
 Neotropical Ornithological Society: Treasurer, 2003-2008.  
 The Nature Conservancy-Missouri Chapter, Board of Trustees, 2001-2010.  
 American Naturalist: Associate Editor, 2002-2004.  
 American Ornithologists' Union: Associate Editor, The Auk, 1998-2002.  
 Society of Colombian Ornithologists, Associate Editor, 2002-2004.  
 American Ornithologists' Union: Council Member (Elected), 2002-2005; Fellow (Elected 2003).  
 Association for Tropical Biology: Council Member (Elected), 1998-2001.  
 Organization for Tropical Studies: Board of Directors (Elected), 1998-2002, 2005-2007.  
 Organization for Tropical Studies: Member, Strategic Planning Committee, 1997-present.  
 Organization for Tropical Studies: Assembly of Delegates, 1997-2007.  
 Cooper Ornithological Society: Council Member (1998-2000), Publications Committee (1998-present), Finance Committee (2000-2003), Membership Committee (Chair; 1999-2003).  
 NASA: Panel Member for IDS Global Ecosystems Review Panel (June 2003).  
 National Museum of Natural History (Smithsonian Institution): Chair, Professional Education Committee, 1999-2002.  
 The Nature Conservancy & Center for Advanced Spatial Technology: Member of Committee

assessing Conservation Priorities for Birds of Concern in the Neotropics.  
 Fulbright Commission Panel Member for Southern Cone (Uruguay, Paraguay, Argentina, and Brazil), October 2001; South America, November 2004.  
 National Science Foundation: Panel Member for Research Planning Grant Competition (1x); Panel Member, Post-doctoral competition, Biosciences Related to the Environment (3x); Panel Member, Population Biology (3x); Panel Member, Integrative Behavior and Neurobiology (1x); Panel Member, International Programs (1x).  
 North American Ornithological Conference: Local Co-chair for 1998 meetings (April 6-12) in St. Louis. Participating societies: American Ornithologists' Union, Association of Field Ornithologists, Cooper Ornithological Society, Colonial Waterbird Society, Raptor Research Foundation, and Wilson Ornithological Society.  
 Organization for Tropical Studies: Member, La Selva Advisory Committee, 1992-1995.  
 Organization for Tropical Studies: Member, Operations Committee to Review Costa Rican Office, 1995.  
 Ornithological Co-Leader, All Taxon Biodiversity Workshop, Guanacaste National Park, March 1995.

*Professional Societies:*

American Ornithologists' Union (Elected Member, June 1994; Elected Council Member, 2002-2005); Association of Field Ornithologists; Association for Tropical Biology (Elected Council Member, 1999-2001); Cooper Ornithological Society (Elected Council Member, 1998-2000); Ecological Society of America; Latin American Studies Association; Society for Colombian Ornithology; Society for the Study of Evolution; Wilson Ornithological Society

*Manuscripts, Books, and Proposals Reviewed For:*

Academic Press, American Naturalist, American Scientist, Animal Behavior, Ararajuba, Auk, Biological Conservation, Biotropica, Condor, Conservation Biology, Diversity and Distribution, Ecology (Ecological Monographs), J. Ecology, J. Biogeography, J. Molecular Ecology, Lincoln Park Zoo, Miscellanea Zoologica (Barcelona, Spain), National Science Foundation, National Geographic Society, Oecologia, Organization for Tropical Studies, PLoS, Proc. National Academy of Sciences, Quarterly Review of Biology, Saint Louis Zoo, Wilson Bulletin, Wildlife Conservation Society

**Invited Seminars/Workshops**

1992 Department of Biology, Univ. Arkansas-Fayetteville  
 Ecology, Ethology, & Evolution, Univ. Illinois-Urbana  
 Department of Biology, University of Puerto Rico  
 St. Louis Research Council, St. Louis, MO  
 1993 Federated Garden Club of America, St. Louis, MO  
 Save The Rain Forest Workshop, St. Louis Zoo (Keynote speaker)  
 1994 Department of Botany, University of Kansas, Lawrence, KS  
 Latin Americanists of Greater St. Louis, St. Louis University  
 Mid-west Population Biology Conference, University of Missouri-Columbia  
 National Association of Biology Teachers Annual Convention, St. Louis, MO  
 Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ  
 1995 Department of Biology, Washington University, St. Louis, MO  
 Department of Zoology, Univ. Oklahoma, Norman, OK

- Department of Biology, Univ. Miami, Coral Gables, FL  
 Department of Biological Sciences, Oklahoma State University, Tulsa, OK  
 Division of Ecosystem Sciences, Univ. California-Berkeley, Berkeley, CA
- 1996 Department of Biology, St. Louis University, St. Louis, MO
- 1998 Department of Biology, Distinguished Visiting Professor Series, University of Miami,  
 Coral Gables, FL  
 Department of Biological Sciences, University of Arkansas, Fayetteville, AR  
 Department of Biological Sciences, Purdue University, Lafayette, IN  
 North American Ornithological Conference, New Orleans (1 paper)
- 1999 Department of Biology, University of Missouri, Columbia, MO  
 Panel Member, Economics and the Environment, IV Annual Economic Literacy  
 Conference, St. Louis, MO  
 IV Neotropical Ornithological Conference, Monterrey, Mexico (2 invited seminars)
- 2000 Third International Symposium-Workshop on Frugivores and Seed Dispersal, Sao Paulo,  
 Brazil (invited speaker)  
 American Bird Conservancy – V Partners in Flight Pan American Round Table,  
 Washington, D.C. (invited speaker)
- 2001 I Reunion Binacional de Ecología, Bariloche, Argentina (invited symposium speaker)  
 Symposium on Manu Biosphere Reserve, Puerto Maldonado, Peru (invited symposium  
 speaker)  
 Biological Fingerprinting Workshop (NASA-CI-AMNH-CERC), New York (invited  
 speaker)  
 Conservation of Biodiversity in Rural Landscapes Workshop: GEF Project, Bogota  
 Colombia (Humboldt Institute, World Bank-GEF) (invited speaker)  
 NCEAS Workshop, GIS and Plot-based Sampling, Santa Barbara, CA
- 2002 NCEAS Workshop, Testing Alternative Methods for Modeling Species' Ecological  
 Niches and Predicting Geographic Distributions, Santa Barbara, CA  
 Amazon Sustainability Conference, St. Louis, MO (invited speaker)  
 Association for Tropical Biology, Panama (poster presentation)  
 Workshop Co-organizer, Empowering long-term, large-scale studies of Neotropical birds,  
 North American Ornithological Conference, New Orleans, LA  
 North American Ornithological Conference, New Orleans, LA (2 posters, 1 paper)
- 2003 NCEAS Workshop, Testing Alternative Methods for Modeling Species' Ecological  
 Niches and Predicting Geographic Distributions, Santa Barbara, CA  
 Dept. of Wildlife Ecology, University of Florida-Gainesville, Gainesville, FL  
 Neotropical Ornithological Congress, NSF-sponsored Symposium on Austral Migration
- 2004 Department of Biology, Univ. Nacional Tucuman, Tucuman, Argentina
- 2005 Natural History Survey, University of Illinois, Champaign, IL  
 Depto. Biología, Universidad Central, Quito Ecuador  
 University of Illinois, Chicago
- 2006 Department of Ecology and Evolutionary Biology, SUNY-Stony Brook  
 Department Wildlife Ecology, University of Florida-Gainesville
- 2007 National Zoo, Smithsonian Institution, Washington, D.C.  
 National Museum of Natural History, Smithsonian Institution, Washington, D.C.
- 2008 Department of Biology, University of Miami, Coral Gables, FL  
 Department of Biology, University of Maryland, College Park, MD  
 Mexican Ornithological Congress, Durango, Mexico (Plenary Speaker)
- 2009 Department of Biology, University of Miami, Coral Gables, FL

- Universidad Estatal de Distancia, San Pedro, Costa Rica
- 2010 Center for Latin American Studies, University of Florida, Gainesville, FL
- 2011 I-Cubed NSF Research Days, University of Florida (Plenary Speaker)  
 Department of Biology, Universidad de los Andes, Bogota, Colombia  
 Department of Biology, Universidad Nacional, Bogota, Colombia
- 2012 Association for Tropical Biology, Brazil (Plenary Speaker, Workshop leader, Symposium paper)  
 Neotropical Ornithological Congress, Cusco, Peru (Symposium paper)  
 Department of Biology, Florida International University (Invited Graduate Student Speaker)  
 Environmental Studies, Universidad San Francisco de Quito, Quito, Ecuador  
 Department of Math & Department of Biology, University of Miami (Invited Symposium Speaker)
- 2013 Association for Tropical Biology, Brazil (Loiselle and Blake, Open session paper; Rivas et al., Open session paper)  
 Laboratory of Ecology and Biodiversity Conservation, State University of São Paulo (UNESP), Rio Claro, Brazil (Invited Seminar Speaker)  
 Department of Ecology, University of São Paulo (USP), São Paulo, Brazil (Invited Seminar Speaker)

### Research Funding (since 1990)

- 1992-Population structure and genetics of *Cynomys ludovicianus* at Badlands National Park, South Dakota. National Park Service, US Dept. of Interior, \$16,000; 12 months. (with J. Blake and G. Bowser).
- 1993-Geographic Information System Training: Introduction to ARC/INFO & Advanced ARC/INFO. UM-St. Louis Research Incentive Awards, \$3600; 6 months. PI; Co-PI: J. Campbell.
- 1993-Ecological and genetic consequences of seed dispersal. Univ. Missouri Research Board, \$35,365; 12 months. PI; co-PI: V. Sork.
- 1994-Avifauna of the Atlantic Forest: implications for conservation of biodiversity. National Geographic Society, \$19,700; 2 years. PI; Co-PIs are J. Blake and J. Goerck (UM-St. Louis), R. Foster (Conservation International, Field Museum, and Smithsonian Tropical Research Institute).
- 1994-Evolution of fruit and seed characters in animal-dispersed plants of Colombian Andean wet forests. Univ. Missouri-St. Louis Research Incentive Award, \$7800.
- 1995-Bioinstrumentation Multi-user Grant. National Science Foundation, January 1995, \$141,500. PI: S. Mulkey; 1 of 4 co-PIs.
- 1995-DISSERTATION ENHANCEMENT AWARD: Effect of the landscape matrix on the composition and conservation of forest bird communities. National Science Foundation International Programs, Doctoral Dissertation Enhancement Program, June 1995 - December 1996, \$8250. PI; Co-PI: L. M. Renjifo (PhD student).
- 1996-Missouri Botanical Garden and UM-St. Louis Collaborative Project to develop GIS application for Madagascar conservation. Conservation Technology Support Program, May 1996-May 1997. Trimble GPS GeoExplorer plus software (2) donated to both collaborating institutions. Co-PI with G. Schatz, MBG.
- 1996-Ecology and evolution of *Dryophila* and *Hypocnemis*, two New World tropical antbirds.

- University of Missouri-St. Louis Research Incentive Award, August 1997 - May 1998, \$10,335. PI; co-PI J. M. Goerck (PhD student).
- 1997-Seed removal and plant fitness in *Palicourea* (Rubiaceae). University of Missouri-Research Board, June 1997 - December 1998, \$38,000.
- 1997-DISSERTATION ENHANCEMENT AWARD: Foraging ecology of birds in *Polylepis* (Rosaceae) woodlands: impacts of local and regional processes on foraging. National Science Foundation International Programs, \$16,137. PI; Co-PI: G. P. Servat (PhD student).
- 2000-Ecology and biodiversity of arthropods in a species-rich Ecuadorean rain forest. University of Missouri-St. Louis Research Award, \$11,524.
- 2003-A comparative study of manakins at leks: consequences for variance in mating success and population genetics. National Science Foundation – IBN 0235141-Animal Behavior Program, \$386,684. PI; John Blake (Co-PI) and Patricia Parker (Co-PI).
- 2003-Application of Geographic Information Systems Technology to Understanding Ecological Patterns and Conservation Planning in Argentina: research and teaching. Fulbright Scholar Program. Science and Technology Award #3480 – Argentina (Lecturing/Research). Awarded for 2003/2004 (3 months).
- 2003-Determining species-specific seed shadows of birds using molecular genetics. National Science Foundation – DEB 0304909 - Small Grants for Exploratory Research, \$38,789. PI; John Blake (Co-PI) and Patricia Parker (Co-PI).
- 2003-REU Supplement: A comparative study of manakins at leks: consequences for variance in mating success and population genetics. National Science Foundation – IBN 0338547-Animal Behavior Program, \$5,660. PI; John Blake (Co-PI) and Patricia Parker (Co-PI).
- 2003-DISSERTATION ENHANCEMENT: Seed dispersal by toucans in Amazonia Ecuador: Toucan-generated seed shadows and genetic-based models of *Virola flexuosa*, a Neotropical nutmeg. National Science Foundation International Program, \$19,776. Co-PI: Kimberly Holbrook (PhD student).
- 2004-Effectiveness of seed dispersal by birds in a species-rich tropical rain forest. University of Missouri – St. Louis Research Award, \$11,274. PI.
- 2004-Monitoring large vertebrates in the Ecuador Amazon. National Geographic Society, \$12,200. Co-PI; PI: John Blake, Co-PI: Jaime Guerra.
- 2004-Facilities improvements at the Tiputini Biodiversity Station in eastern Ecuador. National Science Foundation – DBI: Biological Field Stations and Marine Labs, \$224,600. Co-PI; PI: Thomas Kunz, Co-PIs: Laura MacLatchey, Christopher Schneider.
- 2004-DISSERTATION ENHANCEMENT: Influence of species characteristics and environmental variables on the performance of different species distribution models. National Science Foundation International Program, \$14,750– recommended for funding, but insufficient funds. PI; Co-PI: P. Teresa Feria (PhD student).
- 2005-DISSERTATION ENHANCEMENT: Female mate choice and mating success in *Pipra pipra* (Aves: Pipridae). National Science Foundation International Program, \$14,996. PI; Co-PI: Wendy Tori (PhD student).
- 2007-DISSERTATION IMPROVEMENT GRANT: Closing the seed dispersal loop for *Guettarda viburnoides*: Connecting patterns of avian seed dispersal with population growth in a Neotropical savanna. National Science Foundation Foundation - Ecology Program, \$11,460. Bourne - Substitute PI for Loiselle; Co-PI: Andrea Loayza (PhD student).
- 2007- Estimating effective seed dispersal distances and genetic variation in tropical plants in native and introduced habitats. University of Missouri-Research Board, \$33,670.

- 2007- Estimating effective seed dispersal distances and genetic variation in tropical plants in native and introduced habitats. University of Missouri-St. Louis Research Award, \$12,430-awarded (but declined as other funds available).
- 2012- Collaborative Research: Reproductive and behavioral consequences of female mate-search strategies in lek breeders. National Science Foundation – Animal Behavior Program, \$525,709-in revision. PI; Co-PIs: John G. Blake, T. Brandt Ryder, Juan M. Cordovez.
- 2012-Catalysis Meeting: Genome-enabled research on manakins. National Evolutionary Synthesis Center. \$30,000. November 2012 – October 2013. PI; Co-PIs: A. Boyle, M. Braun, C. Balakrishnan, E. Duval, K. Bostwick, B. Schlinger.
- 2012-PESNet: Advancing the inter-disciplinary evaluation of Payment for Environmental Services (PES). Inter-American Initiative for Global Change Research. \$690,934. March 2013 – February 2017. PI; Co-PIs: D. Adams, L. Branch, S. Cameron-DeVitt, S. Galindo, E. Keys, A. Noss, F. Putz, C. Romero, P. Useche. (Pending)
- 2012- PESNet: Advancing the inter-disciplinary evaluation of Payment for Environmental Services (PES). University of Florida Seed Opportunity Fund. \$93,846. June 2013 – May 2015. PI – P. Useche; Co-PIs: D. Adams, L. Branch, S. Galindo, E. Keys, B. Loiselle, A. Noss, F. Putz, C. Romero, P. Useche, K. Bonine, L. Castaño, E. Derlindati, J. Gobbi, A. Guhl, J. Cardenas, F. Lopez. (Advanced to IFAS competition, but not forwarded from IFAS)
- 2012-Integrating sexual selection and foraging theory. Special Visiting Research Program, Science without Borders Program, CNPq, Brazil. \$60,000. August 2013 – July 2016. PI. (Awarded)
- 2013- DIMENSIONS: COLLABORATIVE RESEARCH: Frugivory, sexual selection and diversification of manakins and their gut microbiome. National Science Foundation – Division of Environmental Biology, ~\$2M (\$226,576 – UF portion). March 2014 – February 2017. Co-PI; C. Balakrishnan (Eastern Carolina University-PI), plus 4 other co-PIs. (Declined)
- 2013- COLLABORATIVE RESEARCH: Female search strategies and mate choice. National Science Foundation – Animal Behavior Program. \$468,439. March 2014 – February 2017. PI; Co-PIs: J.G. Blake and T. B. Ryder. (Pending)
- 2013- RCN: Enabling comparative studies of the process and products of sexual selection in a genomic context. National Science Foundation – Division of Environmental Biology. \$498,593. March 2014 – February 2018. PI; Co-PIs: C. Balakrishnan, A. Boyle, M. Braun, and E. DuVal. (Pending)

### **Program Funding**

- 1997-Support for PhD students in the Tropical Biology and Conservation Program. Training Grant. Compton Foundation, \$15,000. December 1997 - May 1999. Co-PIs: B. Loiselle & P. Osborne.
- 1997-John Denver Memorial Scholarship in Tropical Ecology. Training Grant Challenge for Scholarship Endowment. Carole & Hal Kroeger, \$50,000 matching grant (>\$65,000 raised). October 1997 - open. Co-PIs: B. Loiselle & P. Osborne.
- 1998-Interchange with National Museums of Kenya. Training Grant. Freund Foundation and Jane & Whitney Harris Family Foundation, \$10,000. April 1998 - March 1999. Co-PIs: S. Mulkey, D. Shores, P. Osborne, & B. Loiselle.
- 1998- Support for PhD students in the Tropical Biology and Conservation Program. Training Grant. Compton Foundation, \$22,000. May 1999 - May 2000. Co-PIs: B. Loiselle & P.

- Osborne.
- 2001-Support for Conservation Internship program. Training Grant. Conservation, Food and Health Foundation, \$10,000. September 2001 - September 2002. Co-PIs: B. Loiselle & P. Osborne.
- 2001-Support for PhD students in the Tropical Biology and Conservation Program. Training Grant. Compton Foundation, \$135,000. January 2001 – December 2003. Co-PIs: B. Loiselle & P. Osborne.
- 2001-Support for Graduate Endowed Program in Plant Conservation. Training Grant (endowment). The Christensen Fund, \$2,000,000. July 2001 – June 2007. Co-PIs: B. Loiselle & P. Osborne.
- 2001-Support for ICTE Rain Forest Ambassador Program. Education grant for St. Louis school children. Harris Foundation; Freund Foundation, \$5,000. August 2001 – August 2002. Co-PIs: B. Loiselle & P. Osborne.
- 2001-Field Methods in Tropical Ecology and Conservation Training Program. U.S. Fish and Wildlife Service, \$12,584. January 2002 – December 2002. Co-PIs: B. Loiselle & P. McDaniels.
- 2002-Neotropical Bird Plot Workshop, Third North American Ornithological Conference. Faucett Family Foundation, \$5,000; Gordon and Betty Moore Foundation, \$5,000. PI.
- 2002-Field Methods in Tropical Ecology and Conservation Training Program. U.S. Fish and Wildlife Service, \$17,084. January 2003 – December 2003. Co-PIs: B. Loiselle & P. McDaniels.
- 2003- Missouri Science Teaching and Education Partnerships (MO-STEP). NSF-Education, \$1,559,311. July 2004 – June 2007. Co-PI; PI: P. Parker; Other Co-PIs: C. Granger, & P. Osborne.
- 2012- Strengthening Higher Education Capacity for Environmental Monitoring and Forest Biodiversity Conservation in the Bolivian Amazon. USAID Higher Education Development ICAA II. \$749,971. October 2012 – September 2015. Co-PI; PI: S. Perz; Other co-PIs: K. Kitajima.
- 2012- Preparing Leaders in the Integrative Biosciences Through Multi-dimensional Training in Natural Resource Management. National Institute of Food and Agriculture. \$800,000. August 2013 – July 2016. Co-PI; PI: H. Perez; Other co-PIs: T. Frazer, M. Koroly, G. Roberts. (Declined)
- 2013-A Tropical Conservation and Development Certificate Program for placed-based professionals. \$50,000. August 2013 – July 2015. PI – R. Buschbacher; Co-PIs: S. Athayde, G. Barnes, W. Bartels, E. Bruna, J. Dain, K. Kainer, B. Loiselle, C. Romero, S. Russo, S. Perz, M. Schmink. (Pending)
- 2013- Preparing Leaders in the Integrative Biosciences Through Multi-dimensional Training in Natural Resource Management. National Institute of Food and Agriculture. \$800,000. August 2013 – July 2016. Co-PI; PI: H. Perez; Other co-PIs: T. Frazer, M. Koroly, G. Roberts. (Pending)
- 2013-Tropical Ecology and Conservation Summer Research Program. National Science Foundation, Research Experiences for Undergraduates. January 2014 – December 2019. Senior Personnel; PI: C. Woodward, University of Wisconsin. (Pending)

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### Manuscripts in Review or Near Submission

- Svensson-Coelho, M., V. A. Ellis, B. A. Loiselle, J. G. Blake, R. E. Ricklefs. Reciprocal specialization in multi-host malaria parasite communities of birds: a temperate – tropical comparison. *American Naturalist*: *in review*.
- Cestari, C., and B. A. Loiselle. Mantling behavior by an urban Red-shouldered Hawk (*Buteo lineatus*) during a feeding event. *Wilson J. Ornithology*: *in review*.
- Holbrook, K. M., and B. A. Loiselle. Frugivore loss and recruitment limitation in tropical trees. *Ecology Letters*: *in review*.
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### Book Reviews

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