

CURRICULUM VITAE

JORDAN KARUBIAN

ADDRESS

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PROFESSIONAL POSITIONS

- 2021 – PROFESSOR
Tulane University, *Department of Ecology and Evolutionary Biology*
- 2016 – 2021 ASSOCIATE PROFESSOR
Tulane University, *Department of Ecology and Evolutionary Biology*
- 2010 – 2015 ASSISTANT PROFESSOR
Tulane University, *Department of Ecology and Evolutionary Biology*
- 2007 – ASSOCIATE RESEARCHER
University of California, Los Angeles, *Institute of the Environment*
- 2004 – 07 ASSISTANT RESEARCHER
University of California, Los Angeles, *Institute of the Environment*
- 2004 - 06 NSF INTL. RESEARCH FELLOW (*Sponsor: Dr. D. Romo*)
Universidad San Francisco de Quito, Ecuador, *Dept. of Biology*
- 2002 – LATIN AMERICA DIRECTOR
University of California, Los Angeles, *Center for Tropical Research*
- 2002 - 04 POST-DOCTORAL FELLOW (*Sponsor: Dr. T.B. Smith*)
University of California, Los Angeles, *Dept. Org. Biol. Ecol. & Evol.*

EDUCATION

- 2001 PH.D. (*Advisor: Dr. S. Pruett-Jones*)
The University of Chicago, Department of Ecology & Evolution
- 1997 M.S. (*Advisor: Dr. S. Pruett-Jones*)
The University of Chicago, Department of Ecology & Evolution
- 1993 B.S. (*Advisor: Dr. J. Bradbury*)
University of California, San Diego, Dept. Ecology, Behavior & Evolution

HONORS, AWARDS & BOARD MEMBERSHIPS

- 2022 *Diversity & Outreach Faculty Award*, Tulane University
- 2022-23 *Fulbright Fellow*, Fulbright US Scholars Program (Ecuador)
- 2021-22 *Duren Professor*, Newcomb-Tulane College, Tulane University
- 2020-21 *Inaugural Scholar-In-Residence*, Center for Public Service. Tulane University
- 2019 *Fellow*, American Ornithological Society
- 2018-20 *Fellow*, Mellon Graduate Program in Community-Engaged Scholarship.
Tulane University
- 2016 – *Board Member*, Jocotoco Foundation (Ecuador)
- 2014 *Elective Member*, American Ornithologists Union
- 2013 *Biotropica Award for Excellence in Tropical Biology and Conservation*,
Association for Tropical Biology and Conservation
- 2013 *Founding Member*, FCAT: Foundation for the Conservation of the Tropical
Andes (Ecuador)
- 2012 - 18 *Kylene and Brad Beers Professorship in Social Entrepreneurship*. Tulane
University
- 2012 *Ernest A. Lynton Award for the Scholarship of Engagement for Early-Career
Faculty*, New England Resource Center for Higher Education
- 2004 *International Research Fellow*, National Science Foundation
- 2003 *Fulbright Fellow*, U.S. Scholars Program (Ecuador)

2000 *Nellie Johnson Baroody Award* for Best Presentation on any topic, American Ornithologist's Union

1997 - 99 *Graduate Fellowship*, University of Chicago

RESEARCH ARTICLES

- 2022 Enbody, E.D., S.Y.W. Sin, J. Boersma, S.V. Edwards, H. Schwabl, M.S. Webster and **J. Karubian**. 2022. The evolutionary history and mechanistic basis of female ornamentation in a tropical songbird. *Evolution*. Accepted.
- 2022 Jones, JA, J Boersma, J Liu, D Nason, S Ketaloya, and **J Karubian**. 2022. Female ornamentation does not predict aggression in a tropical songbird. *Behavioral Ecology and Sociobiology*. Accepted.
- 2022 Lueder, S., K. Narasimhan, J. Olivo, D. Cabrera, J. Guerrero, L. Greenstein and **J. Karubian**. 2022. Functional traits, species diversity and species composition of a Neotropical palm community vary in relation to forest age. *Frontiers in Ecology & Evolution*. Accepted.
- 2022 Boersma, J., J.A. Jones, E.D. Enbody, J.F. Welklin, S. Ketaloya, **J. Karubian** and H. Schwabl. 2022. Male White-shouldered Fairywrens (*Malurus alboscapulatus*) elevate testosterone when courting females but not during territorial challenges. *Hormones and Behavior*. Accepted.
- 2022 Diaz-Martin, Z., L. Browne, D. Cabrera, J. Olivo and **J. Karubian**. 2022. Impacts of flowering density on pollen dispersal and gametic diversity are scale dependent. *American Naturalist*. Accepted.
- 2021 Welklin, J.F., S.M. Lantz, S. Khalil, N.M. Moody, **J. Karubian** and M.S. Webster. 2021. Social and abiotic factors differentially affect plumage ornamentation of young and old males in an Australian songbird. *Animal Behaviour*. Accepted.
- 2021 Odom, K.A. et al. (#7 of 18 authors). 2021. Sex role similarity and sexual selection predict male and female song elaboration and dimorphism in fairywrens. *Ecology & Evolution*. Accepted.
- 2021 Jones, J.A., K.A. Odom, I. Hoppe, and **J. Karubian**. 2021. Correlated evolution of distinct signals associated with increased social selection in female white-shouldered fairywrens. *Ecology & Evolution*. Accepted.

- 2021 Diaz-Martin, Z.D. and **J. Karubian**. 2021. Forest cover at landscape scales increases male and female gametic diversity of palm seedlings. *Molecular Ecology*. Accepted.
- 2021 Leberg, S., R. Barriga, H.J. Bart, A. Olivo, K. Narasimhan and **J. Karubian**. 2021. Richness and abundance of stream fishes in a fragmented landscape. *Environmental Biology of Fishes* 104: 239-251.
- 2021 Lamperty, T., **J. Karubian**, and A.E. Dunham. 2021. Seed dispersal services for a neotropical palm are negatively associated with local *Cecropia* density, an indicator of past disturbance. *Biotropica* 53: 1226-1237.
- 2020 Cook, R., T. Ramirez-Parada, L. Browne, M. Ellis and **J. Karubian**. 2020. Environmental correlates of richness, community composition, and functional traits of terrestrial birds and mammals in a fragmented tropical landscape. *Landscape Ecology* 35: 2825-2841.
- 2020 Khalil, S., J. Welkin, K. McGraw, J. Boersma, H. Schwabl, M.S. Webster and **J. Karubian**. 2020. Testosterone regulates CYP2J19-linked carotenoid signal expression in male red-backed fairywrens (*Malurus melanocephalus*). *Proceedings of the Royal Society B*. 287: 20201687.
- 2020 Boersma, J., E. Enbody, J. Jones, D. Nason, E. Lopes-Contreras, **J. Karubian**, and H. Schwabl. 2020. Testosterone induces plumage ornamentation followed by enhanced territoriality in a female songbird. *Behavioral Ecology* 31: 1233-1241.
- 2020 Ramirez-Parada, T., D. Cabrera, Z. Diaz-Martin, L. Browne, and **J. Karubian**. 2020. Resource-related variables drive individual variation in flowering phenology and mediate population-level flowering responses to climate in an asynchronously reproducing palm. *Biotropica* 52: 845-856.
- 2020 Geary, B.G., P.L.L. Leberg, S.T.W. Walter. K. Purcell & **J. Karubian**. 2020. Breeding brown pelicans improve foraging performance as energetic needs rise. *Scientific Reports* 10:1686
- 2019 Javůrková, V.G., E.D. Enbody, J. Kreisinger, K. Chmel, J. Mrázek, & **J. Karubian**. 2019. Plumage iridescence is associated with distinct feather microbiota in a tropical passerine. *Scientific Reports* 9: 12921
- 2019 Enbody, E. D., J. Boersma, J. A. Jones, M. W. H. Chatfield, S. Ketaloya, D. Nason, D. T. Baldassarre, J. Hazlehurst, O. Gowen, H. Schwabl, & **J. Karubian**. 2019. Social organization and breeding biology of the White-shouldered Fairywren *Malurus alboscapulatus*. *Emu: Austral Ornithology*. 119: 274-285.

- 2019 McClelland, S., R.D. Ribeiro, H.W. Mielke, M.E. Finkelstein, C.R. Gonzales, J.A. Jones, J. Komdeur, E. Derryberry, E. Saltzberg & **J. Karubian**. 2019. Sub-lethal exposure to lead is associated with heightened aggression in an urban songbird. *Science of the Total Environment*. 654: 593-603.
- 2018 Geary, B., S.T. Walter, P.L. Leberg, and **J. Karubian**. 2018. Condition-dependent foraging strategies in a coastal seabird: evidence that the rich get richer. *Behavioral Ecology*. 30: 356-363.
- 2018 Sommer, N.R., N.M. Moody, S.M. Lantz, P. Phillips, M. Leu, **J. Karubian** and J.P. Swaddle. 2018. Red-backed fairywrens adjust habitat use in response to dry season fires. *Austral Ecology*. 143: 876-889.
- 2018 Rivero-de Aguilar, J., F. Castillo, A. Moreno, N. Peñafiel, L. Browne, S.T. Walter, **J. Karubian**, and E. Bonaccorso. 2018. Patterns of avian malaria infection vary with time, but not habitat, in a fragmented Neotropical landscape. *PLoS One*. 13: e0206493.
- 2018 Mahoney, M.C., L. Browne, Z. Diaz-Martin, J. Olivo, J. Cabrera, M. Gonzalez, J. Hazlehurst and **J. Karubian**. 2018. Fruit removal by large avian frugivores varies in relation to habitat quality in continuous neotropical forest. *Neotropical Ornithology*. 29: 247-254.
- 2018 Browne, L., V.L. Sork, K. Ottewell and **J. Karubian**. 2018. Frugivore seed dispersal mediates the contributions of male and female gametes to seedling genetic diversity in the tropical palm *Oenocarpus bataua*. *Molecular Ecology* 27: 3159-3173
- 2018 Browne, L. and **J. Karubian**. 2018. Habitat loss and fragmentation reduce effective gene flow by disrupting seed dispersal in a Neotropical palm. *Molecular Ecology*. 27: 3055-3069
- 2018 Enbody, E., J. Boersma, H. Schwabl and **J. Karubian**. 2018. Female ornamentation is associated with elevated aggression and testosterone in a tropical songbird. *Behavioral Ecology*. 29:1056-1066.
- 2018 Browne, L. and **J. Karubian**. 2018. Rare genotype advantage promotes survival and genetic diversity of a tropical palm. *New Phytologist* 218: 1658-1667.
- 2018 Hazlehurst, J. and **J. Karubian**. 2018. Impacts of nectar robbing on the foraging ecology of a territorial hummingbird. *Behavioural Processes* 149: 27-34.
- 2018 Ottewell, K., L. Browne, D. Cabrera, J. Olivo, and **J. Karubian**. 2018. Genetic diversity of dispersed seeds is highly variable among leks of the

- long-wattled umbrellabird. *Acta Oecologica* 86: 31-37.
- 2017 Walter, S.T., L. Browne, J. Freile, N. González, M. Darkes, J. Loor, T. Gillespie, and **J. Karubian**. 2017. Nocturnal bird diversity in forest fragments in northwest Ecuador. *Journal of Tropical Ecology* 33: 357-364.
- 2017 Walter, S.T., L. Browne, J. Freile, J. Olivo, M. Gonzalez, and **J. Karubian**. 2017. Landscape-level tree cover predicts diversity of large-bodied frugivorous birds in forest fragments. *Biotropica* 49: 838-847
- 2017 Brouwer, L. *et al.* (#10 of 22 authors). 2017. Multiple hypotheses explain variation in extra-pair paternity at different levels in a single bird family. *Molecular Ecology* 26: 6717-6729.
- 2017 Geary, B., S.M. Longest, K. Ottewell, S.M. Lantz, S.T. Walter, **J. Karubian**, and P.L. Leberg. 2017. Genetic structure of brown pelicans (*Pelecanus occidentalis*) in the northern Gulf of Mexico in the context of human management and disturbance. *PLoS One* 12:e0185309
- 2017 Botsch, J.C, S.T. Walter, S.T., **J. Karubian**, N. González, E. Dobbs, and B.J. Brosi. 2017. Impacts of forest fragmentation on orchid bee diversity (Hymenoptera: Apidae: Euglossini) in the Chocó biodiversity hotspot of northwest Ecuador. *Journal of Insect Conservation* 21: 633-643.
- 2017 Lantz, S. and **J. Karubian**. 2017. Environmental disturbance increases social connectivity in a tropical passerine bird. *PLoS One* 12(8): 0183144.
- 2017 Lantz, S., J. Boersma, H. Schwabl and **J. Karubian**. 2017. Early molting red-backed fairywren males acquire ornamented plumage in the absence of elevated androgens. *Emu* 117: 170-180.
- 2017 Enbody, E., S.M. Lantz and **J. Karubian**. 2017. Production of plumage ornaments among males and females of two closely related tropical passerine bird species. *Ecology & Evolution* 7: 4024-4034.
- 2017 Iverson, E.N.K., and **J. Karubian**. 2017. The role of bare parts in avian signaling. *Auk* 134: 587-611.
- 2016 Browne, L. and **J. Karubian**. 2016. Frequency dependent selection for rare genotypes promotes genetic diversity of a tropical palm. *Ecology Letters* 19: 1439-1447. doi: 10.1111/ele.12692.
* 'Best Student Paper Award' – Organization for Tropical Studies
- 2016 Hazlehurst, J., S. Cardenas, B. Tinoco, and **J. Karubian**. 2016. Pollination ecology of *Oreocallis grandiflora* (Proteaceae) at the northern and southern ends of its geographic range. *Journal of Pollination Ecology* 19: 71-80.
- 2016 Hazlehurst, J.A. and **J. Karubian**. 2016. Nectar robbing impacts pollinator

- behavior but not plant reproduction. *Oikos* 125: 1668-1676.
- 2016 Browne, L. and **J. Karubian**. 2016. Local and landscape diversity of palm communities in a recently fragmented tropical landscape. *Botanical Journal of the Linnean Society*. 182: 451-464.
- 2016 **Karubian, J.**, L. Browne, D. Cabrera, M. Chambers, and J. Olivo. 2016. Relative influence of relatedness, conspecific density, and microhabitat on seedling survival and growth of an animal-dispersed Neotropical palm. *Botanical Journal of the Linnean Society* 182: 425-438.
- 2016 Lantz, S.M. and **J. Karubian**. 2016. Male red-backed fairywrens enhance a plumage-based signal via adventitious molt. *Auk* 133: 338-346.
- 2016 Frumkin, N.B., T.W. Wey, M. Exnicios, C. Benham, M.G. Hinton, S. Lantz, C. Atherton, D. Forde, and **J. Karubian**. 2016. Inter-annual patterns of aggression and pair bonding in captive American flamingos (*Phoenicopterus ruber*). *Zoo Biology* 35: 111-119.
- 2015 **Karubian, J.**, K. Ottewell, A. Link, and A. DiFiori. 2015. Genetic consequences of seed dispersal to sleeping trees by spider monkeys. *Acta oecologica* 68: 50-58.
- 2015 Browne, L., K. Ottewell, and **J. Karubian**. 2015. Genetic and demographic correlates of habitat loss and defaunation for a Neotropical palm. *Heredity* 115: 385-395.
- 2015 Durães Ribeiro, R., J.E. McCormack, H.G. Alvarez, L. Carrasco, G.F. Grether, P. Mena, R. Sedano, T.B. Smith, and **J. Karubian**. 2015. No evidence for sexual selection in the green manakin *Xenopipo holochlora*. *Journal of Avian Biology* 46(3): 307-314.
*Cover article
- 2014 Walter, S.T., J.J. Dindo, P.L. Leberg, and **J. Karubian**. 2014. Factors influencing Brown Pelican (*Pelecanus occidentalis*) foraging movement patterns during the breeding season. *Canadian Journal of Zoology* 92: 885-891.
- 2014 Baldassarre, D.T., T.A. White, **J. Karubian** and M.S. Webster. 2014. Genomic and morphological analysis of an avian hybrid zone reveals asymmetrical introgression of a sexual signal. *Evolution* 68(9): 2644-2657.
*Cover article
- 2014 Jongsma, G.F.M., R. Hedley, R. Durães, and **J. Karubian**. 2014. Amphibian diversity and species composition in relation to habitat type and disturbance in the Mache-Chindul Reserve, northwest Ecuador. *Herpetologica* 70: 34-46.

- 2014 Rose, A., S. Lantz, J. Swaddle, and **J. Karubian**. 2014. Habitat and arthropod relationships supporting the red-backed fairywren in the Australian tropical savanna dry season. *Tulane Undergraduate Research Journal* 1: 5-18.
- 2013 Carrasco, L., Berg, K. S., Litz, J., Cook, A. and **J. Karubian**. 2013. Avifauna of the Mache-Chindul Reserve, northwest Ecuador. *Neotropical Ornithology* 24: 321-334.
- 2013 **Karubian, J.** 2013. 2013 Biotropica Award for Excellence in Tropical Biology and Conservation. *Biotropica*. 45: 772-773.
- 2013 Durães, R., Carrasco, L., Smith, T. B., and **J. Karubian**. 2013. Relative effects of forest degradation versus fragmentation on avian communities in a Neotropical biodiversity hotspot. *Biological Conservation* 166: 203-211.
- 2013 **Karubian, J.** 2013. Female ornamentation in *Malurus* fairywrens: a hidden evolutionary gem for understanding female perspectives on social and sexual selection. *Emu* 113: 248-258.
- 2013 Hinton, M.G., A. Bendelow, S. Lantz, T.W. Wey, L. Schoen, R. Brockett, and **J. Karubian**. 2013. Patterns of aggression among captive American Flamingos (*Phoenicopterus ruber*). *Zoo Biology* 32: 445-453.
- 2013 Baldassarre, D. T., H. A. Thomassen, **J. Karubian**, and M. S. Webster. 2013. The role of ecological variation in driving divergence of sexual and non-sexual traits in the red-backed fairy-wren (*Malurus melanocephalus*). *BMC Evolutionary Biology* 13: 75.
- 2012 **Karubian, J.**, L. Browne, C. Bosque, T. Carlo, M. Galetti, B.A. Loiselle, J.G. Blake, D. Cabrera, R. Durães, F.M. Labecca, K.M. Holbrook, R. Holland, W. Jetz, F. Kummeth, J. Olivo, K. Ottewell, G. Papadakis, G. Rivas, S. Steiger, B. Voirin, and M. Wikelski. 2012. Seed dispersal by Neotropical birds: emerging patterns and underlying processes. *Neotropical Ornithology* 23: 9-24.
- 2012 Scofield, D.G., P.E. Smouse, **J. Karubian** and V.L. Sork. 2012. Using alpha, beta, and gamma diversity to characterize seed dispersal by animals: social behavior matters. *American Naturalist* 180(6): 719-732.
- 2012 Ottewell, K., E. Grey, F. Castillo, and **J. Karubian**. 2012. Direct parentage analysis reveals non-leptokurtic pollen dispersal in the insect-pollinated tropical palm *Oenocarpus bataua*. *Heredity* 109(6): 332-339.
- *News & Commentary: *Heredity* 109: 330-331; Podcast interview: http://www.nature.com/multimedia/podcast/hdy/hdypodcast_1209.mp3

- 2012 Mila, B., E.S. Tavares, A.M. Saldana, T.B. Smith, **J. Karubian** and A.J. Baker. 2012. A trans-Amazonian screening of mtDNA reveals deep intraspecific divergence in forest birds and suggests a vast underestimation of species diversity. *PloS One* 7: e40541.
- 2012 Varian-Ramos, C.W., W.R. Lindsay, **J. Karubian**, and M.S. Webster. 2012. Female red-backed fairy-wrens do not appear to pay a price for high rates of sexual promiscuity. *Auk* 129: 529-536.
*Editor's pick: July issue of *Auk*
- 2012 **Karubian, J.**, R. Durães, J. Storey, and T.B. Smith. 2012. Mating behavior drives seed dispersal in the long-wattled umbrellabird *Cephalopterus penduliger*. *Biotropica* 44(5): 689-698.
*Recipient: 2013 Award for Excellence in Tropical Biology & Conservation
- 2011 **Karubian, J.**, W.R. Lindsay, H. Schwabl, and M.S. Webster. 2011. Bill coloration, a flexible signal in a tropical passerine bird, is regulated by social environment and androgens. *Animal Behaviour* 81: 795-800.
- 2011 **Karubian, J.**, L. Carrasco, P. Mena, J. Olivo, D. Cabrera, F. Castillo, R. Durães, and N. El Ksabi. 2011. Nesting biology, home range, and habitat use of the brown wood-rail (*Aramides wolfi*) in northwest Ecuador. *Wilson Journal of Ornithology* 123: 137-141.
- 2010 **Karubian, J.**, V.L. Sork, T. Roorda, R. Durães, and T.B. Smith. 2010. Destination-based dispersal by the long-wattled umbrellabird *Cephalopterus penduliger* homogenizes genetic structure of a tropical palm. *Molecular Ecology* 19: 1745-1753.
*Cover article
- 2010 Webster, M.S., **J. Karubian**, and H. Schwabl. 2010. Dealing with uncertainty: flexible reproductive strategies by a tropical passerine bird in an unstable ecological and social environment. *Advances in The Study of Behavior* 42: 123-153.
- 2010 Varian-Ramos, C.W., **J. Karubian**, V. Talbott, I. Tapia, and M.S. Webster. 2010. Offspring sex ratios reflect lack of repayment by auxiliary males in a cooperatively breeding passerine. *Behavioral Ecology and Sociobiology* 64: 967-977.
- 2009 **Karubian, J.**, J.P. Swaddle, C.W. Varian-Ramos, and M.S. Webster. 2009. The relative importance of male tail length and nuptial plumage on social dominance and mate choice in the red-backed fairy-wren: evidence for the multiple receiver hypothesis. *Journal of Avian Biology* 40: 559-568.

- 2009 **Karubian, J.** and R. Durães. 2009. Effects of seed disperser social behavior on patterns of seed movement and deposition *Oecologia Brasiliensis* 13: 45-57.
- 2008 **Karubian, J.**, T.S. Sillett, and M.S. Webster. 2008. The effects of delayed plumage maturation on aggression and survival in male red-backed fairy-wrens. *Behavioral Ecology* 19: 507-516.
- 2008 **Karubian, J.** 2008. Changes in breeding status are associated with rapid bill darkening in male red-backed fairy-wrens *Malurus melanocephalus*. *Journal of Avian Biology* 39: 81-86.
- 2008 Macedo R.H., **J. Karubian**, and M.S. Webster. 2008. Extra-pair paternity and sexual selection in socially monogamous birds: are tropical birds different? *Auk* 125: 769-777.
- 2008 Webster, M.S., C.W. Varian, and **J. Karubian**. 2008. Plumage color and reproduction in the red-backed fairy-wren: Why be a dull breeder? *Behavioral Ecology* 19: 517-524.
- 2008 **Karubian, J.** and L. Carrasco. 2008. Home range and habitat preferences of the Banded Ground-cuckoo *Neomorphus radiolosus*. *Wilson Journal of Ornithology* 120: 205-209.
- 2008 Tori, W.P., R. Durães, T.B. Ryder, M. Anciães, **J. Karubian**, R.H. Macedo, J.A.C. Uy, P.G. Parker, T.B. Smith, A.C. Stein, M.S. Webster, J.G. Blake, and B.A. Loiselle. 2008. Advances in sexual selection theory: insights from tropical avifauna. *Neotropical Ornithology* 19: 151-163.
- 2008 Carrasco, L., A. Cook, and **J. Karubian**. 2008. Range extensions for eight species of bird in the Mache-Chindul mountains, Ecuador. *Cotinga* 29: 72-76.
- 2007 **Karubian, J.**, L. Carrasco, D. Cabrera, A. Cook, and J. Olivo. 2007. Nesting biology of the banded-ground cuckoo. *Wilson Journal of Ornithology* 119: 222-228.
- 2005 **Karubian, J.**, J. Fabarra, D. Yunes, J. Jorgenson, D. Romo, and T.B. Smith. 2005. Temporal and spatial patterns of macaw abundance in the Ecuadorian Amazon. *Condor* 107: 617-626.
- 2003 **Karubian, J.**, G. Castañeda, J.F. Freile, T. Santander, and T.B. Smith. 2003. Nesting biology of a female long-wattled umbrellabird *Cephalopterus penduliger* in northwestern Ecuador. *Bird Conservation International* 13: 351-360.

- 2002 **Karubian, J.** 2002. Costs and benefits of variable breeding plumage in the red-backed fairy-wren. *Evolution* 56: 1673-1682.
- 2002 **Karubian, J.** and A. Alvarado. 2002. Testing the function of petal displays in the red-backed fairy-wren. *Emu* 103: 87-92.
- 2001 **Karubian, J.** and J.P. Swaddle. 2001. Selection on females can lead to 'larger males'. *Proceedings of the Royal Society of London (B)* 268: 725-728.
- 2001 **Karubian, J.** 2001. Social organization and mating system of the Striated Grasswren. *Condor* 103: 412-418.
- 2000 Swaddle, J.P., **J. Karubian**, and S. Pruett-Jones. 2000. A novel pattern of reversed sexual dimorphism in fairy-wrens: implications for sexual selection. *Behavioral Ecology* 11: 345-349.
- 2000 Wetterer, J.K., A.L. Wetterer, C. Rumbaitis-del Rio, C. Chang, G. Vega, L. Manne, J. Aukema, **J. Karubian**, A. Sloan, and M. Desai. 2000. Diel shifts in tree-hopper tending by wasps and ants in Costa Rica. *Sociobiology* 36: 123-131.
- 1996 Hall, L.S. and **J. Karubian**. 1996. Breeding behavior of the elegant trogon in southeast Arizona. *Auk* 113: 143-150.

MANUSCRIPTS IN REVISION & REVIEW

- In Review* Anderson, H.L., J. Olivo, and **J. Karubian**. Adaptive significance of off-lek sociality. *Behavioral Ecology*.
- In Review* Jones, JA, J Boersma, and **J Karubian**. 2021. Female aggression towards same-sex rivals depends on social context in a tropical songbird. *Behavioral Processes*.
- In Review* McCormick, C.M., J. Olivo, T. Ramirez-Parada, D. D Cabrera, L. Carrasco, M. Cooper, and **J. Karubian**. 2021. Reproductive biology of the long-wattled umbrellabird *Cephalopterus penduliger*. *Neotropical Ornithology*.
- In Review* Huh, K.M., M. Ellis, F. Castillo, L. Carrasco, J. Rivero de Aguilar, E. Bonaccorso, L. Browne, and **J. Karubian**. 2021. Patterns of hummingbird diversity in a modified tropical landscape in the Chocó. Biogeographic zone. *Biotropica*

- In Review* Hendrix, T,... (14 co-authors).. and **J. Karubian**. 2021. Behavioural differences between ornamented and unornamented male Red-backed Fairywrens (*Malurus melanocephalus*) in the nonbreeding season. *Emu*
- In Review* Narasimhan, K.N., **J. Karubian**, and D.G. Tirira. First record of *Mustela frenata* (Carnivora, Mustelidae) in the Ecuadorian Chocó rainforest confirms its presence in lowlands of Ecuador. *Mammalia*.

BOOK CHAPTERS

- 2014 **Karubian, J.** and R. Durães. 2014. Impacts of mating behavior on plant-animal seed dispersal mutualisms: a case study from a Neotropical lek-breeding bird. In *Sexual Selection: Insights from the Neotropics*. (eds. R. Macedo and G. Machado). Elsevier Press. Pp. 365-390.

POPULAR ARTICLES & MEDIA

- 2016 Alliaga, M., L. Browne & **J. Karubian**. 2016. Biodiversity in forest fragments of the Mache Chindul Reserve. DVD with 5 films, results and photos for fragment owners & local residents and the Ministry of the Environment. Ecuador.
- 2015 Browne, L., M. Gonzalez and **J. Karubian**. 2015. Biodiversity in forest fragments of the Mache Chindul Reserve. Technical report for local residents and the Ministry of the Environment. Ecuador.
- 2011 **Karubian, J.** 2011. The Long-wattled Umbrellabird: the feathered gardeners of the Choco. *Terra Incognita* 72: 8-18. (July 2011)
- 2010 **Karubian, J.** 2010. Pompadours in the palms. *Natural History Magazine*. 119: 28-32. (February 2010)
- 2009 **Karubian, J.** 2009. The secret life of the Long-wattled Umbrellabird. *El Comercio Newspaper*, Ecuador (May 10, 2009)

GRANTS

- 2021 - *RAPID: From microbes to new tropical forests: an experimental test of fungal specialization on host tree genotypes in the context of a reforestation experiment*. National Science Foundation (coPI).
 - *A Community-based Approach to the Conservation of Neotropical migratory birds in the Ecuadorian Chocó V*. United States Fish & Wildlife Service (coPI)

- *Collaborative Research: BEE: Impacts of abiotic environment, pathogen resistance and Pre-Columbian human management on Neotropical canopy palm abundances.* National Science Foundation (PI)
 - *Fulbright Fellowship: Ecological Research, Education and Training in a Biodiversity Hotspot.* Fulbright US Scholars Program
- 2020
- *A Community-based Approach to the Conservation of Neotropical migratory birds in the Ecuadorian Chocó IV.* United States Fish & Wildlife Service (coPI)
 - *Collaborative Research: International: Socio-ecological training in a tropical landscape.* National Science Foundation (PI)
 - *Bywater Interdisciplinary Fellowship.* Tulane University (PI)
 - *Protected area establishment to conserve the endangered banded-ground cuckoo.* Rainforest Trust. (coPI)
- 2019
- *Umbrellabird Conservation in the Chocó.* Disney Conservation Fund (PI)
 - *Linking community-engaged research with sustainable forestry to achieve lasting conservation in the Ecuadorian Chocó.* United States Fish & Wildlife Service (PI)
- 2018
- *Bridge Fund.* Tulane University (PI)
 - *Banded ground-cuckoo Conservation.* National Geographic Society (coPI).
- 2017
- *Impacts of Sub-lethal Exposure to Lead on Physiology, Behavior, and Reproductive Success of a Common Urban Songbird, the Northern Mockingbird.* Morris Animal Foundation (PI)
 - *DISSERTATION RESEARCH: Female ornamentation in the White-shouldered Fairywren: Proximate mechanisms and adaptive function.* National Science Foundation #IOS-1701781 (with Erik Enbody)
 - *Assessment of coastal island restoration practices for the creation of brown pelican nesting habitat.* Restore Act 'Center of Excellence' (coPI)
 - *Umbrellabird Conservation in the Chocó.* Disney Conservation Fund
- 2016
- *A Community-based Approach to the Conservation of Neotropical migratory birds in the Ecuadorian Chocó III.* United States Fish & Wildlife Service
 - *Center for Bioenvironmental Research Faculty Research Fellowship.* Center for Bioenvironmental Research, Tulane University
 - *A science-based approach to forest fragment conservation in northwest Ecuador's Tropical Andes.* Conservation, Food and Health Foundation
 - *Is there anybody out there? An effort to resolve the status of the Turquoise-throated Puffleg *Eriocnemis godini*, a found-and-lost Andean hummingbird.* American Bird Conservancy (with Juan Freile)
 - *Umbrellabird Conservation in the Chocó.* Disney Worldwide Conservation Fund

- 2015
- *EAGER: The relative contributions of pollen and seed dispersal to gene flow and propagule survival in a tropical palm*. National Science Foundation # 1548548
 - *International: Behavioral ecology research and training in Australia*. National Science Foundation #1460048
 - *Dissertation Research: The effects of nectar robbery on territorial pollinators and plant reproduction*. National Science Foundation #DEB-1501862
 - *Dissertation Research: The relative contribution of pollen vs. seed dispersal to gene flow in a fragmented Neotropical landscape*. National Science Foundation #DEB-1501514
 - *A science-based approach to forest fragment conservation in northwest Ecuador's Tropical Andes*. Conservation, Food and Health Foundation
 - *Undergraduate Research Opportunities Program*. Louisiana Sea Grant
 - *Summer Research Grant*. Stone Center for Latin American Studies, Tulane University
- 2014
- *Collaborative Research: Social environment effects on hormones and the integrated behavioral phenotype*. National Science Foundation #IOS-1354133
 - *Does lead in New Orleans have mockingbirds singing the blues?* Morris Animal Foundation
 - *Umbrellabird Conservation in the Chocó*. Disney Worldwide Conservation Fund
 - *Conserving Papua New Guinea's Grassland Birds*. Disney Worldwide Conservation Fund
 - *A science-based approach to forest fragment conservation in northwest Ecuador's Tropical Andes*. Conservation, Food and Health Foundation
 - *Strangers in the night: basic biology and conservation of nocturnal birds in forest fragments of northwest Ecuador*. Conservation, Research, and Educational Opportunities International
 - *Undergraduate Research Opportunities Program*. Louisiana Sea Grant
 - *CELT Fund for Faculty/Student Scholarly and Artistic Engagement*. Center for Engaged Learning & Teaching, Tulane University
 - *Strangers in the night: basic biology and conservation of nocturnal birds in forest fragments of northwest Ecuador*. Ornithological Council
 - *A science-based approach to forest fragment conservation in northwest Ecuador's Tropical Andes*. Universidad San Francisco de Quito Collaboration Grants (coPI)
- 2013
- *A Community-based Approach to the Conservation of Neotropical migratory birds in the Ecuadorian Chocó*. United States Fish & Wildlife Service
 - *Umbrellabird Conservation in the Chocó*. Disney Worldwide Conservation Fund

- *Conserving Papua New Guinea's Grassland Birds*. Disney Worldwide Conservation Fund
 - *Fund for Faculty/Student Scholarly and Artistic Engagement*. Tulane University Center for Engaged Learning and Teaching
 - *Effects of hypoxia on brown pelican foraging ecology and demographic processes*. National Geographic Society (coPI)
 - *Mechanisms and adaptive significance of female ornamentation in the white-shouldered fairy-wren, Malurus alboscapulatus*. Louisiana Board of Regents Pilot Funding for New Research (P-FUND) program
- 2012
- *Summer Research Grant*. Stone Center for Latin American Studies, Tulane University
 - *Research Fellowship*. Tulane University Senate Committee on Research
 - *Fund for Faculty/Student Scholarly and Artistic Engagement*. Tulane University Center for Engaged Learning and Teaching
 - *Umbrellabird Conservation in the Chocó*. Disney Worldwide Conservation Fund
- 2011
- *RAPID: Relative impacts of density- and trait-mediated effects on a top predator: how has the Deepwater Horizon oil spill affected Brown Pelican population biology?* National Science Foundation #DEB-1139962
 - *U.S.- Australia IRES Collaboration: Behavioral ecology research training in Australia's tropical savannah*. National Science Foundation #OISE-1131614
 - *MRI: Acquisition of an automated sequencer for research, training, and education at Tulane University and partner institutions*. National Science Foundation #DBI-1126516 (coPI)
 - *How do spatial and temporal variation in palm fruit availability impact seed dispersal services by Long-wattled Umbrellabirds?* National Geographic Society
 - *The impact of multi-modal signals on avian hybrid zone dynamics*. Louisiana Board of Regents Pilot Funding for New Research (P-FUND) program
 - *Programatic support for research and conservation work in Ecuador*. Lawrence Foundation
 - *Umbrellabird Conservation in the Chocó*. Disney Worldwide Conservation Fund
 - *The effect of the Deepwater Horizon Spill on sensitive Gulf species, and the merit of ongoing research, monitoring and protection efforts*. Center for Public Service, Tulane University
- 2010
- *Seed dispersal, spatial distribution, and genetic structure of the palm tree *Oenocarpus bataua**. Universidad Nacional de Colombia, Dirección de Investigación sede Bogotá. (coPI)
 - *Assessing the impact of environmental perturbation on dispersal of a colonial seabird: ecological and genetic responses of the Brown Pelican to*

- the Deepwater Horizon oil spill*. United States Geological Survey Long-term Estuary Assessment Group
- *Umbrellabird Conservation in the Chocó*. Disney Worldwide Conservation Fund
 - *Altitudinal migration and conservation of an endangered frugivore in a fragmented landscape: tracking Long-wattled Umbrellabirds with PTT's in the tropical Andes*. NorthStar Technologies LLC
 - *Consequences of habitat fragmentation on a seed dispersal mutualism: research & training in a South American rainforest*. Newcomb College Institute
- 2009
- *Social environment, hormones, and ontogenetic carry-over effects on male reproductive phenotypes in a polymorphic bird*. National Science Foundation #IOS-0818962 (coPI)
 - *Umbrellabird Conservation in the Chocó*. Disney Worldwide Conservation Fund
- 2008
- *Multidisciplinary Approach to Conserving Neotropical Migrants in the Ecuadorian Chocó*. United States Fish & Wildlife Service
 - *Umbrellabird Conservation in the Chocó*. Disney Wildlife Conservation Fund
- 2007
- *Conservation and basic research in the Ecuadorian Chocó*. Conservation, Food, and Health Foundation
 - *Umbrellabird Conservation in the Chocó*. Disney Wildlife Conservation Fund
 - *Conservation of the Banded Ground-cuckoo*. Cleveland Metroparks Zoo
 - *Effects of deforestation on disease prevalence in Neotropical rain forest birds*. UCLA Academic Senate (coPI)
 - *The effects of habitat alteration on gene flow of a tropical palm in Chocó rain forest, northwest Ecuador*. UCLA Academic Senate (coPI)
- 2006
- *Conservation and basic research in the Ecuadorian Chocó*. Conservation, Food, and Health Foundation
 - *Umbrellabird Conservation in the Chocó*. Disney Wildlife Conservation Fund
- 2005
- *Conservation and basic research in the Ecuadorian Chocó*. Conservation, Food, and Health Foundation
 - *Umbrellabird Conservation in the Chocó*. Disney Wildlife Conservation Fund
 - *Banded Ground-cuckoo basic biology in Ecuador*. Cleveland Metroparks Zoo
- 2004
- *Ecology of the Long-wattled Umbrellabird and other avian frugivores in the Ecuadorian Chocó*. National Science Foundation #OISE-0402137

- *Conservation and basic research in the Ecuadorian Chocó*. Conservation, Food, and Health Foundation
 - *Basic Biology of the Long-wattled Umbrellabird*. Chicago Zoological Society
 - *Radio Telemetry of Scarlet Macaws in the Ecuadorian Amazon*. Wildlife Conservation Society
 - *Umbrellabird Conservation in the Chocó*. Disney Wildlife Conservation Fund
- 2003
- *Mating biology & basic ecology of the Long-wattled Umbrellabird*. National Geographic Society
 - *Basic biology and conservation of Long-wattled Umbrellabirds*. Wildlife Conservation Society
 - *Umbrellabird Conservation in the Chocó*. Disney Wildlife Conservation Fund
 - *Natural history of Long-wattled Umbrellabirds in Ecuador*. Fulbright Fellowship U.S. Scholars Program
- 2002
- *Plumage color polymorphism in Red-backed Fairy-wrens: mechanism and function*. National Science Foundation #IBN-0213075 (coPI)
 - *Density and abundance of macaws in the Ecuadorian Amazon*. Wildlife Conservation Society
- 2000
- *Molecular analyses of the Red-backed Fairy-wren mating system*. Hinds Fund, University of Chicago
 - *Evolution of bright male plumage in the Red-backed Fairy-wren*. American Ornithologist's Union
 - *Genetic analyses of the Red-backed Fairy-wren*. Chapman Fund, American Museum of Natural History
 - *Mating system of Red-backed Fairy-wrens: ecology and behavior*. Animal Behavior Society
- 1999
- *Evolution of delayed plumage maturation in the Red-backed Fairy-wren: social, genetic and behavioral perspectives*. National Science Foundation DDIG #IBN-9972607 (coPI)
 - *Social organization in the Red-backed Fairy-wren*. Chapman Fund, American Museum of Natural History
 - *Behavior and conservation of the Red-backed Fairy-wren*. American Ornithologist's Union
- 1998
- *Social behavior of the Red-backed Fairy-wren*. Hinds Fund, University of Chicago
- 1997
- *Genetic analyses of population structure of the Striated Grasswren*. Hinds Fund, University of Chicago

- 1996 - *Conservation of the Striated Grasswren*. Chicago Zoological Society
 - *Niche partitioning in rainforest birds*. Organization for Tropical Studies

INVITED & KEYNOTE PRESENTATIONS

- 2020 - *Integrating research and community engagement in a biodiversity hotspot*. Department of Natural Resource Ecology and Management. Iowa State University, IA (virtual presentation)
- 2019 - *Interdisciplinary research in a conservation hotspot*. Department of Ecology & Evolutionary Biology. Tulane University.
 - *Integrating research and civic engagement to create change: a case study. From Ecuador*. Hoch Cunningham Environmental Studies Seminar Series. Tufts University, Boston, MA.
 - *Dispersal and demography of a hyperabundant tropical palm*. Department of Biology. Tufts University, Boston, MA.
- 2018 - *Synergies between community engagement and scholarly research*. Audubon Nature Institute Research Day. New Orleans, LA.
 - *Dispersal and demography of a long-lived tropical palm*. Department of Biology. University of Missouri Saint Louis, Saint Louis, MO.
 - *Integrating ecological research and community engagement: case studies from Ecuador and New Orleans*. Department of Biology. University of Mississippi, Oxford, MS.
- 2017 - *Seed and pollen dispersal by animals: impacts on gene flow and seedling survival of a tropical palm*. Department of Biology. University of Florida, Gainesville, FL.
- 2016 - *Dispersal by animals large and small drives patterns of gene flow and seedling survival in a tropical palm*. Department of Biology. College of William & Mary, Williamsburg, VA.
 - *The behavior and ecology of the Long-wattled Umbrellabird*. V Meeting of the Ecuador Ornithological Council. Plenary address. Zamora, Ecuador.
- 2015 - *A multi-taxonomic assessment of diversity in forest fragments, northwest Ecuador*. Department Biology. Universidad Central, Quito, Ecuador.
 - *Conserving forest fragments in northwest Ecuador: what is at stake?* Department Biology. Universidad San Francisco de Quito, Ecuador.
- 2014 - *Animal-mediated gene flow in a tropical palm, Oenocarpus bataua*. Department of Ecology & Evolutionary Biology. Tulane University, LA.
 - *Gene flow in a tropical palm, Oenocarpus bataua*. Department of Plant Biology. University of Georgia, GA.
 - *Animal-mediated gene flow in a tropical palm, Oenocarpus bataua*.

Department of Biology. Loyola University, LA.

- 2013
- *Can community-based partnerships improve the way we do science: a case study from a conservation hotspot in Ecuador.* Sustainable Solutions Initiative. University of Maine, ME.
 - *Environment by behavior interactions in tropical and subtropical birds.* Department of Biology. Universidade Federal Santa Catarina, Brazil.
- 2012
- *The promise of engaged scholarship for understanding and conserving our natural world.* Lynton Colloquium on the Scholarship of Engagement. Keynote address. Boston, MA.
 - *Animal-mediated gene flow in a tropical palm tree.* Department of Biology. University of Oklahoma, OK.
 - *The promise of engaged scholarship for understanding and conserving our natural world.* Coalition of Urban and Metropolitan Universities 18th Annual Conference. Plenary address. Chattanooga, TN.
- 2011
- *The interaction between environment and behavior: two case studies from the tropics.* Department of Biological Sciences. Louisiana State University. LA.
 - *Pattern and process in a Neotropical seed dispersal mutualism.* IX Neotropical Ornithological Congress. ‘Impacts of behavior, movement, and environment on seed dispersal: insights and advances from Neotropical avifauna’ symposium. Cusco, Peru.
 - *Population biology of the brown pelican in the Gulf region.* United States Geological Survey, Longterm Estuary Assessment Group. New Orleans, LA.
- 2010
- *Recent advances in satellite-based animal tracking.* Office of Global Health. ‘Innovative Technology in Global Health Research Program’. Tulane University, LA.
 - *Interactions between behavior and the environment: two case studies from the tropics.* Department of Biology. University of Louisiana at Lafayette, LA.
 - *A framework for conservation.* Conservation in the Chocó Symposium. Laguna de Cube, Ecuador.
 - *Social status shapes phenotype in a tropical passerine bird.* 25th International Ornithological Congress. ‘Physiological control of phenotype: insights from the tropics and Southern Hemisphere birds’ Symposium. Campos de Jordão, Brazil.
 - *Emerging contaminants in coastal and marsh ecosystems.* Center for Bioenvironmental Research. Wetlands Leadership Program. Tulane University, LA.
 - *Interactions between behavior and the environment: two case studies from the tropics.* Museum of Natural History. Louisiana State University, LA.
 - *Interactions between behavior and the environment: two case studies from*

- the tropics*. Department of Biology, University of New Orleans, LA.
- 2009
- *Seed dispersal by umbrellabirds in the Choco rainforests of Ecuador*. Universidade do Estado do Rio de Janeiro. 'V Ecology Symposium: Behavioral Ecology'. Rio de Janeiro, Brasil.
 - *Ecological and evolutionary consequences of avian social behavior: two case studies from the tropics*. Department of Biology. Claremont-McKenna College, CA.
 - *Genetic and demographic consequences of seed dispersal by a lek-breeding bird*. Department of Biology. University of California, Riverside, CA.
 - *Ecological and evolutionary consequences of avian social behavior: two case studies from the tropics*. Department of Ecology & Evolutionary Biology. Tulane University, LA.
 - *Linking social behavior to seed dispersal outcomes*. Department of Ecology and Evolutionary Biology. University of California, Los Angeles, CA.
- 2008
- *Conservation and ecology of macaws, parrots and other at-risk birds of the Ecuadorian rainforests*. Parrots International Symposium. Long Beach, CA.
 - *Seed dispersal, social behavior, and conservation*. Department of Biology. Loyola Marymount University, CA.
- 2007
- *Conservation of ecological and evolutionary processes in a Neotropical rainforest*. California Academy of Sciences. San Francisco, CA.
 - *Adaptive consequences of male polymorphism in the Red-backed Fairy-wren*. Department of Biology. University of California, Riverside, CA.
 - *Multidisciplinary approaches to conserving tropical rain forest: a case study from the Ecuadorian Chocó*. Department of Biology. Occidental College, CA.
 - *Sexual selection in the Long-wattled Umbrellabird*. VII Neotropical Ornithological Congress. 'Sexual Selection in Neotropical Birds' Symposium. Maturín, Venezuela
- 2006
- *Causes and consequences of color variation in male Red-backed Fairy-wrens*. Animal Behavior Seminar Series. University of Chicago, IL.
- 2004
- *Ecology and conservation of the Ecuadorian Chocó*. Fulbright Commission Seminar Series. Quito, Ecuador.
- 2002
- *Seed dispersal and basic ecology of the long-wattled umbrellabird*. Department of Biological Sciences. Universidad San Francisco de Quito. Quito, Ecuador

- 2001 - *Mating system and social biology of the red-backed fairy-wren.*
 Department of Biology. Pontificia Universidad Catolica de Ecuador.
 Quito, Ecuador.
- *Social biology and phenotypic variation in the red-backed fairy-wren.*
 Department of Ecology and Evolutionary Biology. University of Chicago,
 IL.
- 2000 - *Costs and benefits of male plumage variation in the red-backed fairy-wren.*
 Department of Biology. Oberlin College, OH.
- 1999 - *Costs and benefits of male plumage variation in the red-backed fairy-wren.*
 Avian Studies Group. Avian Studies Group, University of California,
 Berkeley, CA.
- *Costs and benefits of male plumage variation in the red-backed fairy-wren.*
 Commonwealth Scientific Investigation Research Organization (CSIRO),
 Queensland, Australia.

TEACHING EXPERIENCE

Tulane University

Tropical Field Biology & Conservation (EBIO 378)

Experimental Animal Behavior (EBIO 329)

Behavioral Ecology (EBIO 369)

Processes of Science in Ecology & Evolutionary Biology (EBIO 701)

University of California, Los Angeles

Animal Behavior (EEB129)

Introduction to Ecology & Behavior (EEB 100)

POST-DOCTORAL FELLOWS

Dr. Scott Walter (2012 – 2014). Behavioral ecology of the brown pelican

Dr. Kym Ottewell (2010 – 2012). Gene flow in tropical plants.

STUDENT ADVISING

Ph.D. Students - current

John Jones (2016 – present), EE Biology, Tulane University

Kaushik Narasimhan (2017 - present), EE Biology, Tulane University

Michael Ellis (2018 - present), EE Biology, Tulane University

Annelise Blanchette (2018 - present), EE Biology, Tulane University

Luke Anderson (2019 – present), EE Biology, Tulane University

Judith Santano (2021- present), EE Biology, Tulane University

Ph.D. Students - past

Dr. Jenny Hazlehurst, EE Biology, Tulane University (Ph.D., 2017)
 Dr. Luke Browne, EE Biology, Tulane University (Ph.D., 2017)
 Dr. Samantha Lantz, EE Biology, Tulane University (Ph.D., 2017)
 Dr. Erik Enbody, EE Biology, Tulane University (Ph.D., 2018)
 Dr. Brock Geary, EE Biology, Tulane University (Ph.D., 2018)
 Dr. Zoe Diaz-Martin, EE Biology, Tulane University (Ph.D., 2020)
 Dr. Sarah Khalil, EE Biology, Tulane University (Ph.D., 2022)

M.S. Students - current

Tanner Mazanac, EE Biology, Tulane University
 Katie Rompf, EE Biology, Tulane University
 Katherine Perkins, EE Biology, Tulane University
 Chengkai Guo, EE Biology, Tulane University
 Vishal Narayan, EE Biology, Tulane University

M.S. Students - past

Tessa Roorda, EE Biology, Tulane University (M.S., 2011)
 Roxanne Franta, EE Biology, Tulane University (M.S., 2014)
 Amandaleigh Peterson, EE Biology, Tulane University (M.S., 2014)
 Nathan Frumkin, EE Biology, Tulane University (M.S., 2015)
 Malinda Chambers, EE Biology, Tulane University (M.S., 2015)
 Erik Iverson, EE Biology, Tulane University (M.S., 2016)
 Nicole Moody, EE Biology, Tulane University (M.S., 2016)
 Marie Piccione, EE Biology, Tulane University (M.S., 2017)
 Meredith Williams, EE Biology, Tulane University (M.S., 2017)
 Emily Nonamaker, EE Biology, Tulane University (M.S., 2017)
 AJ Pate, EE Biology, Tulane University (M.S., 2019)
 Akhila Gopal, EE Biology, Tulane University (M.S., 2019)
 JiaWen Liu, EE Biology, Tulane University (M.S., 2019)
 Rachel Cook, EE Biology, Tulane University (M.S., 2019)
 Caitlin McCormick, EE Biology, Tulane University (M.S., 2020)
 Zhiyu “Wendy” Deng, EE Biology, Tulane University (M.S., 2020)
 Peyton Fralick, EE Biology, Tulane University

Ph.D. Thesis Committee Member - current

Jordan Boersma, Biology, Washington State University
 Kiah Williams, EE Biology, Tulane University
 Fabiola Rodriguez-Vasquez, EE Biology, Tulane University
 David ‘Cooper’ Campbell, EE Biology, Tulane University
 John Herbert, EE Biology, Tulane University
 Diana Tataru, EE Biology, Tulane University
 Wayne Wang, EE Biology, Tulane University
 Julie Rej, EE Biology, Tulane University

Ph.D. Thesis Committee Member - past

Stephan Woltmann, EE Biology, Tulane University (Ph.D., 2010)
 Nicole Michel, EE Biology, Tulane University (Ph.D., 2012)
 Nathan Cooper, EE Biology, Tulane University (Ph.D., 2014)
 Greg Glotzbecker, EE Biology, Tulane University (Ph.D., 2015)
 Jessica Henkel, EE Biology, Tulane University (Ph.D., 2015)
 Andrew Laughlin, EE Biology, Tulane University (Ph.D., 2015)
 Ashley Peele, EE Biology, Tulane University (Ph.D., 2015)
 Deborah Visco, EE Biology, Tulane University (Ph.D., 2015)
 Justin Yeager, EE Biology, Tulane University (Ph.D., 2015)
 Brittany Bernik, EE Biology, Tulane University (Ph.D., 2016)
 Rebecca Hazen, EE Biology, Tulane University (Ph.D., 2016)
 Alex Ameen, EE Biology, Tulane University (Ph.D., 2017)
 Landon Jones, Biology, University of Louisiana at Lafayette (Ph.D., 2017)
 Jenny Phillips, EE Biology, Tulane University (Ph.D., 2017)
 Stephanie Steele, EE Biology, University of California, Los Angeles (Ph.D., 2017)
 Liz Kimbrough, EE Biology, Tulane University (Ph.D., 2019)
 Peter Tellez, EE Biology, Tulane University (Ph.D., 2019)
 Cody Kent, EE Biology, Tulane University (Ph.D., 2020)

Undergraduate Honors Thesis Students Advisor - current

Eleanor Casement, EE Biology, Tulane University
 Cecilia Hammond, EE Biology, Tulane University
 Mary Elizabeth Barrow, EE Biology, Tulane University
 Sarah Uher, EE Biology, Tulane University
 Sloan Liviccari, EE Biology, Tulane University

Undergraduate Honors Thesis Students Advisor - past

Mitch Hinton, EE Biology, Tulane University (2013)
 Johnny Blanchard, EE Biology, Tulane University (2013)
 Nathan Frumkin, EE Biology, Tulane University (2014)
 Erik Iverson, EE Biology, Tulane University (2015)
 Emma Saltzberg, EE Biology, Tulane University (2017)
 Tadeo Ramirez, EE Biology, Tulane University (2017)
 Michael Mahoney, EE Biology, Tulane University (2017)
 Trey Hendrix, EE Biology, Tulane University (2018)
 Elliot Hill, EE Biology, Tulane University (2018)
 Samuel Leberg, EE Biology, Tulane University (2018)
 Shayna Ross, EE Biology, Tulane University (2019)
 Kyu Min Hu, EE Biology, Tulane University (2019)
 Lauren Hitt, EE Biology, Tulane University (2019)
 Margaux Armfield, EE Biology, Tulane University (2020)
 Sarah Lueder, EE Biology, Tulane University (2020)
 Erin Sheehy, EE Biology, Tulane University (2021)
 Melanie Smith, EE Biology, Tulane University (2021)
 Caroline Camus, EE Biology, Tulane University (2021)

UNIVERSITY SERVICE

- 2021 – Member, Anti-Discrimination and Equality Senate Committee
- 2015 - 2021 Director of Graduate Studies, EE Biology
- 2014 - 15 Member, Ad hoc Center for Public Service Committee
- 2013 - Graduate Studies Committee, School of Science & Engineering
- 2012 - 14 Member, Executive Committee, Stone Center for Latin American Studies
- 2011 Member, Executive Committee, Stone Center for Latin American Studies
Member, Ad hoc Center for Public Service Committee

GENERAL SERVICE

- 2021 - Ad hoc Reviewer, National Science Foundation
- Ad hoc Reviewer, Rainforest Trust
- 2020 - Ad hoc Reviewer, National Science Foundation
- Ad hoc Reviewer, National Geographic Society
- Ad hoc Reviewer, Rainforest Trust
- 2019 - Ad hoc Reviewer, National Science Foundation
- Ad hoc Reviewer, National Geographic Society
- 2018 - Panel member, National Science Foundation
- 2017 - Panel member, National Science Foundation
- Ad hoc Reviewer, National Science Foundation
- Ad hoc Reviewer, National Geographic Society
- 2016 - Ad hoc Reviewer, National Science Foundation
- 2015 - Panel member, National Science Foundation
- Panel member, National Science Foundation
- Virtual panel member, National Science Foundation
- Ad hoc Reviewer, Mardsen Fund, Royal Society of New Zealand
- Ad hoc Reviewer, German Research Foundation
- Ad hoc Reviewer, National Federation for Wildlife & Fisheries
- Ad hoc Reviewer, National Geographic Society (3x)

- Ad hoc Reviewer, Lynton Award for the Scholarship of Engagement for Early Career faculty
- 2014
- Ad hoc Reviewer, Lynton Award for the Scholarship of Engagement for Early Career faculty
 - Ad hoc Reviewer, Edge of Existence Program
 - Ad hoc Reviewer, National Geographic Society
 - Judge, Greater New Orleans Science and Engineering Fair (GNOSEF)
 - Judge, Tulane School of Science and Engineering Research Day, Student Posters
 - Organization for Tropical Studies (OTS) campus representative
- 2013
- Ad hoc Reviewer, National Geographic Society
 - Ad hoc Reviewer, Netherlands Organization for Scientific Research
 - Ad hoc Reviewer, Lynton Award for the Scholarship of Engagement for Early Career faculty
 - Organization for Tropical Studies (OTS) campus representative
- 2012
- Ad hoc Reviewer, National Geographic Society
 - Ad hoc Reviewer, National Science Foundation, Animal Behavior Panel
 - Ad hoc Reviewer, National Science Foundation, International Research Fellowship (OISE) Panel
 - Organization for Tropical Studies (OTS) campus representative
- 2011
- Student presentation & poster judge, Neotropical Ornithological Congress
 - Ad hoc Reviewer, National Geographic Society
 - Ad hoc Reviewer, National Science Foundation, Animal Behavior Panel
 - Organization for Tropical Studies (OTS) campus representative
 - Organization for Tropical Studies 'Visiting Faculty'
- 2010
- Ad hoc Reviewer, National Science Foundation, Animal Behavior Panel
- 2009
- Ad hoc Reviewer, National Science Foundation, Animal Behavior Panel
 - Ad hoc Reviewer, National Science Foundation, Evolutionary Ecology Panel
 - Panel Member, Post-doctoral Guidance Workshop, Animal Behavior Society
 - Judge, Founder's Award, poster competition, Animal Behavior Society
 - Ad hoc Reviewer, Student research grants, Animal Behavior Society
- 2008
- Ad hoc Reviewer, Student research grants, Animal Behavior Society
- 2006
- Student Grant-writing Workshop. North American Ornithological Society. Veracruz, Mexico.

MANUSCRIPT REVIEWS

I have reviewed hundreds of articles for the following **51 journals**: *Acta Oecologia*, *American Journal of Primatology*, *American Naturalist*, *Animal Behaviour*, *Ardeola*, *Auk*, *Austral Ecology*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Biological Journal of the Linnean Society*, *Biological Conservation*, *Biological Reviews*, *Biology Letters*, *Biotropica*, *Bird Conservation International*, *Botanical Journal of the Linnean Society*, *BMC Evolutionary Ecology*, *BMC Genetics*, *Colombian Ornithology*, *Condor*, *Conservation Genetics*, *Cotinga*, *Ecology*, *Ecology & Evolution*, *Ecological Monographs*, *Ecuadorian Journal of Medicine and Biological Sciences*, *Emu*, *Ethology*, *Evolution*, *Frontiers in Ecology & Evolution*, *Frontiers in Genetics*, *Global Conservation & Ecology*, *Integrative Zoology*, *Journal of Animal Welfare*, *Journal of Avian Biology*, *Journal of Biogeography*, *Journal of Ecology*, *Journal of Ethology*, *Journal of Field Ornithology*, *Journal of Tropical Biology*, *Journal of Tropical Ecology*, *Molecular Ecology*, *Neotropical Ornithology*, *New Phytologist*, *PLOS One*, *Proceedings of the National Academy of Sciences USA (PNAS)*, *Proceedings of the Royal Society of London, B*, *Scientific Reports*, *Wildlife Research*, *Wilson Journal of Ornithology*, and *Zoo Biology*.

CONSERVATION & COMMUNITY BASED PARTICIPATORY RESEARCH

My research program is strengthened by a significant focus on community-based conservation, training, and education. In Ecuador, I helped to form an in-country NGO in Foundation for Conservation of the Tropical Andes (FCAT – www.fcat-ecuador.org). Through FCAT, I have (a) delivered environmental education to thousands of local residents; (b) provided honors thesis and graduate projects for dozens of Ecuadorian and U.S. students; (c) provided training and full time employment for dozens of Ecuadorian local residents; (d) generated over two dozen peer-reviewed publications with Ecuadorian local resident co-authors; and e) established a large rainforest habitat reserve with a modern research and training station. My work is recognized by a *Fulbright Fellowship* (2003); the ‘*Ernest A. Lynton Award for the Scholarship of Engagement for Early Career Faculty*’ from the New England Higher Education Resource Center (2012); the ‘*Excellence in Tropical Biology and Conservation Award*’ by the Association for Tropical Biology and Conservation (2013). Local resident collaborators have won the ‘*Local Conservation Hero Award*’ by the Disney Worldwide Conservation Fund (2006), the ‘*Buffett Award*’ from the National Geographic Society (2015), and the ‘*Whitley Award*’ by the Whitley Fund for Nature (2014), among others.

PUBLIC OUTREACH

I have delivered > 50 presentations to formal and informal groups (e.g., elementary and high school students and teachers; law and business school students; local Audubon Society chapters, etc.) on science and conservation. I have produced 4 non-technical articles about my research in US and international magazines and newspapers and have paired with local environmental advocacy groups to disseminate results broadly. I have received multiple grants to work with artists to develop project-specific installations that communicate our research aims, methods, and findings to the general public. I have helped

to design and fund annual Environmental Fairs in Ecuador and Papua New Guinea, attended by > 1,500 local residents/yr. I have been interviewed by the *New York Times* and other radio and media sources about my own work and broader scientific issues. I have worked with undergraduates to produce dozens of videos (3 – 5 min) about student led research, and with professional film makers to produce 3 short (5 – 15 min) films on conservation and scientific research in Ecuador and Papua New Guinea, all available online (<https://www.youtube.com/channel/UCv4W9cR7OCXrpZMYW6gEE9w>).

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science
American Ornithological Society (Fellow)
Association for Tropical Biology and Conservation
Society for the Study of Evolution