

## Curriculum Vitae

### Lynn Bloxom (Marty) Martin II

#### Current position

Professor  
Global, Environmental, and Genomic Health Sciences  
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#### Education and training

1992 - 1996	B.S. Biology, Virginia Commonwealth University Supervisor: Dr. Charles Blem
1997 - 1999	M.S. Biology, Virginia Commonwealth University Supervisor: Dr. Charles Blem
1999 - 2001	M.A. Ecology and Evolutionary Biology, Princeton University Supervisor: Dr. Martin Wikelski
2001 - 2004	Ph.D. Ecology and Evolutionary Biology, Princeton University Supervisor: Dr. Martin Wikelski
2004 - 2007	Post-doctoral, Psychology/Neuroscience, Ohio State University Supervisor: Dr. Randy J. Nelson

#### Honors and awards

2021	Faculty Outstanding Research Achievement Award, USF
2021	Fellow, American Ornithologist's Society
2018	Outstanding Faculty Award, USF
2017	Fellow, American Academy for the Advancement of Science
2017	Early promotion to Professor, USF
2015	Fulbright Specialist, Argentina (Santa Fe, Bariloche, Esperanza)
2015	Outstanding Faculty Award, USF
2012	Early tenure, promotion to Associate Professor, USF
2010	University Outstanding Research Award, USF
2009	Bartholomew Award, Society for Integrative and Comparative Biology
2009	Elective Member, American Ornithologist's Society
2007	Ned Johnson Award, American Ornithologist's Society
2007	Young Investigator Award, Society for Behavioral Neuroendocrinology

#### PUBLICATIONS

##### Edited books

1. **LB Martin**, CK Ghalambor, and HA Woods (editors). 2015. Integrative Organismal Biology, Wiley Press.

##### Peer-reviewed articles (\*undergraduate collaborator, \*\*graduate collaborator):

##### In review or revision:

186. Brehm, AM, VR Assis, **LB Martin**, and JL Orrock. Individual characteristics, experience, and environmental conditions shape large-scale activity patterns of a widespread small mammal species.

185. \*\*Dawkins, D, M Ravinet, KD Kohl, **LB Martin**, and AW Schrey. Epigenetic potential changes over 100 years in five introductions of the house sparrow.
184. Gibson, N, G Cifarelli, KM McCain, C Zimmer, VR Assis, JL Orrock, and **LB Martin**. *FKBP5* expression tracks the extent of the built environment in the white-footed mouse.
183. \*\*Lauer, ME, JD Maddox, M Ravinet, KD Kohl, **LB Martin**, and AW Schrey. Temporal changes in DNA methylation over 115 years in introduced house sparrows.
182. \*\*Lauer, ME, M Gibson, JD Maddox, D Ray, NM Schrey, EL Sheldon, C Zimmer, **LB Martin**, and AW Schrey. DNA methylation of house sparrows differs over time and among tissues to reduce burden of an experimental infection
181. \*\*McCain, KM, \*G Mansilla, EL Sheldon, C Zimmer, AW Schrey, M Rowe, R Dor, KD Kohl, \*\*J Soraker, H Jensen, KJ Mathot, T Vu, HT Phoung, B Jimeno, KL Buchanan, M Thiam, J Briskie, **LB Martin**. Urbanization shapes enemy release: enteric pathogen prevalence in house sparrows.
180. Morrow, C, N Gibson, VR Assis, **LB Martin**, and JL Orrock. The interplay of individual variation in host behavior and immunity affect Lyme disease risk across the northeastern US.
179. Zimmer, C, \*\*KM McCain, \*\*G Cifarelli, G Mansilla, EL Sheldon, C Zimmer, AW Schrey, M Rowe, R Dor, KD Kohl, \*\*J Soraker, H Jensen, KJ Mathot, T Vu, \*\*HT Phoung, B Jimeno, KL Buchanan, M Thiam, J Briskie, and **LB Martin**. Expression of *FKBP5*, a regulator of glucocorticoid action, relates to climate predictability among house sparrow populations.

## 2025

178. Assis, VR, AM Brehm, \*\*G Cifarelli, JL Orrock, and **LB Martin**. 2025. Congeneric rodents differ in immune gene expression: implications for host competence for tick-borne pathogens. *Journal of Experimental Zoology A* 343: 502-510.
177. Assis, VR, AM Brehm, \*\*KC McCain, JL Orrock, and **LB Martin**. 2025. Geographic variation in immune gene expression in wild rodent hosts of *Borrelia burgdorferi*, *Ecological and Evolutionary Physiology*, in press.
176. Jahn, AE, K Koller, **LB Martin**, \*\*TM Smiley, TB Verrett, ED Ketterson, \*\*EJ Williams, and DJ Becker. 2025. Temporal patterns, behavioral drivers, and physiological correlates of West Nile virus exposure in American Robins (*Turdus migratorius*) *Ecological and Evolutionary Physiology*, in press.
175. **Martin, LB**, \*\*McCain, KM, \*G Mansilla, EL Sheldon, C Zimmer, AW Schrey, M Rowe, R Dor, KD Kohl, \*\*J Soraker, H Jensen, KJ Mathot, T Vu, \*\*HT Phoung, B Jimeno, KL Buchanan, M Thiam, and J Briskie. 2025. Temperature predictability and introduction history affect the expression of genes regulating DNA methylation in a globally distributed songbird. *Journal of Avian Biology*, in press.
174. \*\*McCain, KM, \*G Mansilla, EL Sheldon, C Zimmer, AW Schrey, M Rowe, R Dor, KD Kohl, J Soraker, H Jensen, KJ Mathot, T Vu, HT Phoung, B Jimeno, KL Buchanan, M Thiam, J Briskie, **LB Martin**. 2025. Microbial surveillance versus cytokine responsiveness in native and non-native house sparrows. *Biology Letters* 21: rsbl.2024.0431.
173. Schrey, AW; \*\*Ige, O, \*\*D Ray, \*\*ME Lauer, \*\*D Dawkins, N Schrey, EL Sheldon, KM McCain, JD Maddox, KD Kohl, M Ravinet, J Briskie; K Buchanan, R Dor, H Jensen, B Jimeno, K Mathot, P Ho, M Rowe, J Soraker, M Thiam, V Thinh, C Zimmer, and **LB Martin**. Simulated bacterial infection induce different changes in DNA methylation between introduced and native house sparrows (*Passer domesticus*). *Journal of Avian Biology*, in press.

172. Sheldon, EL, **LB Martin**, and AW Schrey. 2025. Integrating plasticity into conservation practice: harnessing genetic estimates of epigenetic potential to study phenotypic plasticity in wild populations. *Journal of Applied Ecology* 4: 783-789.
171. \*\*Weil, JN, \*\*KM McCain, VR Assis, **LB Martin**, and JS Adelman. Behavioral endocrinology: Immune systems and sickness behaviors. *Encyclopedia of Animal Behavior*, in press.
170. Zimmer, C, \*\*McCain, KM, \*\*Hanson, HE, and **LB Martin**. FKBP5 expression is related to risky foraging in house sparrows. *Hormones and Behavior*, in press.

## 2024

169. Brehm, AM, VR Assis, **LB Martin**, and J Orrock. 2024. Individual variation underlies large-scale patterns: host conditions and behavior affect parasitism. *Ecology* 106: e4478.
168. \*\*Lauer, ME, H Kodak, T Albayrak, M Lima, \*\*D Ray, E Simpson, \*D Tevs, EL Sheldon, **LB Martin**, and AW Schrey. 2024. Introduced house sparrows (*Passer domesticus*) have greater variation in DNA methylation than native house sparrows. *Journal of Heredity* 115: 11-18.
167. Leonard, A, the Earth Hologenome Initiative (117 authors including **LB Martin**), and A. Alberdi. 2024. A global initiative for ecological and evolutionary hologenomics. *Trends in Ecology and Evolution* 39: 616-620.
166. McMinds, R, RHY Jiang, S Adapa, EC Ruhs, R Munds, J Leiding, CJ Downs, and **LB Martin**. 2024. Bacterial sepsis triggers stronger transcriptomic immune responses in larger primates. *Proceedings of the Royal Society of London, B: Biological Sciences* 10.1098/rspb.2024.0535.
165. \*\*Ray, D, EL Sheldon, **LB Martin**, and AW Schrey. 2024. Screening H3 acetylation in a wild bird, the house sparrow (*Passer domesticus*). *Integrative Organismal Biology* 6: obae004.
164. Zimmer, C, \*\*HE Hanson, \*\*M Garrison, \*D Reese, EL Sheldon and **LB Martin**. 2024. Immune gene expression and epigenetic potential affect the consumption of risky food by female house sparrows. *Brain, Behavior, and Immunity* 119: 6-13.
163. Zimmer, C, B Jimeno, and **LB Martin**. 2024. HPA flexibility and FKBP5: promising physiological targets for conservation. *Philosophical Transactions of the Royal Society of London, B: Biological Sciences* 379 (1898), 20220512.
162. Crino, OL, R Bonduriansky, **LB Martin**, and DWA Noble. 2024. A conceptual framework for understanding stress-induced physiological and transgenerational effects on population responses to climate change *Evolution Letters* 8: 161-171.

## 2023

161. Dantzer, B, KE Mabry, JR Bernhardt, RM Cox, CD Francis, CK Ghalambor, KL Hoke, S Jha, ED Ketterson, \*\*NA Levis, \*\*KM McCain, GL Patricelli, SH Paull, N Pinter-Wollman, RJ Safran, TS Schwartz, HL Throop, L Zaman, and LB Martin. 2023. Understanding organisms using ecological observatory networks. *Integrative Organismal Biology* 5 obad036.
160. \*\*Ferraguti, M, SM Argany, J Jiménez-Peñuela, JM de la Puente, L Garcia-Longoria, J Muriel, T Albayrak, S Bensch, C Bonneaud, R Brown, R Clarke, GÁ Cziráj, D Dimitrov, K Espinoza, JG Ewen, I Farah, J Figuerola, W Flores, LZ Garamszegi, O Hellgren, D Horakova, K Huyvaert, H Jensen, A Krizanauskiene, K Lee, MR Lima, C Lujan, E Magnussen, **LB Martin**, KD Matson, AP Möller, P Munclinger, V Palinauskas, PL Pap, J Pérez-Tris, SC Renner, RE Ricklefs, S

- Scebba, R Sehgal, M Soler, E Szöllösi, G Valkiūnas, H Westerdahl, P Zethindjiev, and A Marzal. 2023. Environmental, geographical, and time-related effects driving avian malaria infection in a globally invasive bird. *Global Ecology and Biogeography* 32, 809-832.
159. \*\*Fletcher, JE, **LB Martin**, and CJ Downs. Leukocyte concentrations are unrelated to body mass in reptiles unlike endotherms. *Physiological and Biochemical Zoology* 96: 405-417.
  158. \*\*Koller, KK, \*\*ME Kernbach, \*D Reese, TR Unnasch, and **LB Martin**. 2023. House sparrows vary seasonally in their ability to transmit West Nile virus. *Physiological and Biochemical Zoology* 96 332-341.
  157. Sheldon, EL, C Zimmer, \*\*HE Hanson, \*B Koussayer, AW Schrey, P Wigley, and **LB Martin**. High epigenetic potential protects songbirds against pathogenic *Salmonella enterica* infection. *Journal of Experimental Biology* 226: jeb245475.
  156. Sheldon, EL, AW Schrey, \*\*E Lauer, and **LB Martin**. 2023. Epigenetic potential and aging: promoter CpG content positively covaries with lifespan and is dependent on gene function among vertebrates. *Journal of Heredity* 114: 207-218.

## 2022

155. Downs, CJ, LA Schoenle, S Oakey, R Ball, RHY Jiang, KC Klasing, and **LB Martin**. 2022. Large mammals have more powerful antibacterial defenses than predicted from their metabolic rates. *American Naturalist* 201: 287-301.
154. \*\*Hanson, HE, C Wang, AW Schrey, AL Liebl, RHY Jiang, and **LB Martin**. 2022. Epigenetic potential and DNA methylation in an ongoing house sparrow (*Passer domesticus*) range expansion. *American Naturalist* 200: 662-674.
153. **Martin, LB** and C Zimmer. 2022. Correspondence: endocrine flexibility. *Journal of Experimental Biology* 225: jeb244646.
152. **Martin, LB**, EC Ruhs, S Oakey, and CJ Downs. 2022. Captivity does not affect leukocyte allometries in birds. *Journal of Experimental Zoology A* 337: 576-582.
151. Zimmer, C, HA Woods and **LB Martin**. 2022. Information theory in vertebrate stress physiology. *Trends in Endocrinology and Metabolism* 33: 8-17.

## 2021

150. Cooke, SJ, JN Bergman, C.L. Madliger, RL Cramp, J. Beardall, GP Burness, TD Clark, B Dantzer, E de la Barrera, NA Fangue, CE Franklin, A Fuller, LA Hawkes, KR Hultine, KE Hunt, OP Love, HA MacMillan, JW Mandelman, FC Mark, **LB Martin**, AEM Newman, AB Nicotra, GD Raby, SA Robinson, Y Ropert-Coudert, JL Rummer, F Seebacher, AE Todgham, S Tomlinson, and SL Chown. 2021. One hundred research questions in conservation physiology for generating actionable evidence to inform conservation policy and practice. *Conservation Physiology* 9: coab009.
149. \*\*Hanson, HE, C Zimmer, \*B Koussayer, AW Schrey, JD Maddox and **LB Martin**. Epigenetic potential affects immune gene expression in house sparrows. 2021. *Journal of Experimental Biology* 224: jeb238451.
148. Husak, JF, MJ Fuxjager, MA Johnson, MN Vitousek, JW Donald, CJ Francis, W Goymann, M Hau, \*\*BK Kircher, R Knapp, **LB Martin**, ET Miller, LA Schoenle, and TD Williams. 2021. Life history and environment predict variation in testosterone across vertebrates. *Evolution* doi:10.1111/evo.14216.
147. \*\*Kernbach, ME, **LB Martin**, TR Unnasch, RJ Hall, RHY Jiang, and CD Francis. 2021. Light pollution predicts WNV risk in Florida. *Proceedings of the Royal Society of London B* 288: 20210253.

146. **Martin, LB**, \*\*HE Hanson, ME Hauber, and CK Ghalambor. 2021. Genes, environments, and phenotypic plasticity in immunology. *Trends in Immunology* 42: 198-208.
145. Ruhs, EC, DJ Becker, S Oakey, \*HF Droke, \*O Ogunsina, MB Fenton, NB Simmons, **LB Martin**, and CJ Downs. 2021. Body size shapes immune cell proportions in birds and non-volant mammals, but not bats. *Journal of Experimental Biology* 224: jeb241109.
144. Zimmer, C, \*\*HE Hanson, and **LB Martin**. 2021. *FKBP5* expression is related to HPA flexibility and the capacity to cope with stressors in house sparrows. *Hormones and Behavior* 135: 105038.

## 2020

143. Cooke, SJ, CL Madliger, R Cramp, J Beardall, G Burness, SL Chown, T Clark, B Dantzer, E de la Barrera, N Fangué, C Franklin, A Fuller, L Hawkes, K Hunt, O Love, HA MacMillan, J Mandelman, FC Mark, **LB Martin**, A Newman, A Nicotra, S Robinson, Y Ropert-Coudert, J Rummer, F Seebacher, and A Todgham. 2020. Reframing conservation physiology to be more inclusive, integrative, relevant and forward-looking: reflections and a horizon-scan. *Conservation Physiology* coaa016.
142. Downs, CJ, NA Dochtermann, R Ball, KC Klasing, and **LB Martin**. 2020. The effects of body mass on immune cell concentrations of terrestrial mammals. *American Naturalist* 195: 107-114.
141. \*\*Kernbach, ME, TR Unnasch, V Cassone, and **LB Martin**. 2020. Spectral characteristics of light pollution have distinct effects on melatonin and songbird responses to West Nile virus. *Condor* duaa018.
140. \*\*Hanson, HE, \*B Koussayer, HJ Kilvitis, AW Schrey, and **LB Martin**. 2020. Epigenetic potential in native and introduced populations of house sparrows (*Passer domesticus*). *Integrative and Comparative Biology* icaa060.
139. \*\*Hanson, HE, \*NS Mathews, ME Hauber, and **LB Martin**. 2020. The natural history of model organisms: the house sparrow (*Passer domesticus*) in the service of basic and applied biology. *eLife* 9:e52803.
138. Injaian AS, CD Francis, JQ Ouyang, DM Dominoni, JW Donald, MJ Fuxjager, W Goymann, JF Husak, MA Johnson, \*\*BK Kircher, R Knapp, **LB Martin**, ET Miller, LA Schoenle, TD Williams, and MN Vitousek. 2020. Baseline and stress-induced corticosterone levels across birds and reptiles do not reflect urbanization levels. *Conservation Physiology* cozz110.
137. Oberstaller, J, SR Adapa, GW Dayhoff II, J Gibbons, TE Keller, C Li, J Lim, M Pham, A Sarkar, R Sharma, AH Wani, A Vianello, LM Duong, Ch Wang, CGF Atkinson, M Barrow, NW Van Bibber, J Dahrendorff, DAE Dean, O Dokur, GC Ferreira, M Hastings, GS Herbert, KT Huq, Y Kim, X Liao, X Liu, F Mansuri, **LB Martin**, EM Miller, O Natarajan, J Pang, F Prieto, PW Radulovic, V Sheth, M Sumpter, D Sutheland, N Vijayakumar, and Rays HY Jiang. 2020. Uncovering host-microbiome interactions in global systems with collaborative programming: a novel approach integrating social and data sciences. *F1000 Research* 9: 1478.
136. Ruhs, EC, **LB Martin** and CJ Downs. 2020. The effects of body mass on immune cell concentrations in birds. *Proceedings of the Royal Society of London B* rspb.2020.0655.
135. Stevenson, TJ, \*\*HE Hanson, and **LB Martin**. 2020. Theory, hormones, and life history stages: an introduction to the symposium on epigenetic variation in endocrine systems. *Integrative and Comparative Biology* icaa140.
134. Zimmer, C, \*\*HE Hanson, DE Wildman, M Uddin, and **LB Martin**. 2020. *FKBP5*:

a key mediator of how vertebrates flexibly cope with adversity. *Bioscience* b114.

## 2019

133. Becker, DJ, \*\*GF Albery, MK Kessler, T Lunn, \*\*CA Falvo, GA Czirjak, **LB Martin**, and RK Plowright. 2019. Macroimmunology: the drivers and consequences of spatial patterns in wildlife immune defenses. *Journal of Animal Ecology* <https://doi.org/10.1111/1365-2656.13166>
132. Becker, DJ, CJ Downs, and **LB Martin**. 2019. Multi-scale drivers of immunological variation and consequences for disease dynamics. *Integrative and Comparative Biology* 59:1129-1137.
131. \*\*Burgan, SC, SS Gervasi, LR Johnson, and **LB Martin**. 2019. How individual variation in host tolerance affects host competence to transmit parasites. *Physiological and Biochemical Zoology* 92: 49-57.
130. Downs, CJ, Schoenle, LA, J Harrison, B Han, and **LB Martin**. 2019. Scaling of host competence. *Trends in Parasitology* 35: 182-192.
129. \*\*Hanson, HE, \*J Zolik, and **LB Martin**. 2019. House sparrows (*Passer domesticus*) in CABI - Invasive Birds: Global Trends and Impacts.
128. \*\*Kernbach, ME, \*\*DJ Newhouse, \*JM Miller, RJ Hall, \*\*J Gibbons, J Oberstaller, \*\*D Selechnik, RHY Jiang, TR Unnasch, CN Balakrishnan, and **LB Martin**. 2019. Light pollution increases West Nile virus competence in a ubiquitous reservoir species. *Proceedings of the Royal Society B: Biological Sciences* 286 <http://doi.org/10.1098/rspb.2019.1051>.
127. \*\*Kilvitis, HJ, \*\*A Berrio, S Phelps, AW Schrey, and **LB Martin**. 2019. DNA methylation predicts *TLR-4* expression in Kenyan house sparrows. *Journal of Avian Biology* jav01965.
126. **Martin, LB**, \*\*M Kernbach, and TR Unnasch. Distinct effects of acute versus chronic corticosterone exposure on zebra finch competence for West Nile virus. *Conservation Physiology* coz094.
125. **Martin, LB**, \*\*B Addison, AGD Bean, KL Buchanan, OL Crino, \*\*JR Eastwood, AS Flies, R Hamede, GE Hill, M Klaassen, \*\*RE Koch, JM Martens, C Napolitano, EJ Narayan, L Peacock, AJ Peel, A Peters, N Raven, \*\*A Risely, \*\*MJ Roast, LA Rollins, \*\*M Ruiz-Aravena, \*\*D Selechnik, \*\*HS Stokes, B Ujvari, and L Grogan. 2019. Extreme competence: keystone hosts of infections. *Trends in Ecology and Evolution* 34: 303-314.
124. Schrey, AW, \*A Ragsdale, \*K Adams, \*N Ingebretsen, \*J Lee, \*B Frederick, AL Liebl and **LB Martin**. 2019. Evidence that Kenyan house sparrows invaded from multiple sites. *Ibis* 161 915-921.
123. Vitousek, MN, MA Johnson, CJ Downs, ET Miller, **LB Martin**, CD Francis, JW Donald, MJ Fuxjager, W Goymann, M Hau, JF Husak, \*\*BK Kircher, R Knapp, LA Schoenle, and TD Williams. 2019. Glucocorticoid evolution: large-scale patterns suggest different selective pressures shape baseline and stress-induced levels. *American Naturalist* 193: 866-880.

## 2018

122. Adelman, JS and **LB Martin**. 2018. Behavioral Endocrinology: immune systems and sickness behaviour. Encyclopedia of Animal Behavior, second edition. Elsevier.
121. Altizer, SM, \*\*DJ Becker, JH Epstein, KM Forbes, TR Gillespie, RJ Hall, DM Hawley, SM Hernandez, **LB Martin**, RK Plowright, \*\*DA Satterfield, and DG Streicker. 2018. Food for contagion: synthesis and future directions for studying

- host–parasite responses to resource shifts in anthropogenic environments. *Philosophical Transactions of the Royal Society* 373:10.198/rtsb.2017.0102
120. \*\*Burgan, SC, SS Gervasi, and **LB Martin**. 2018. Parasite tolerance and host competence in avian host defense to West Nile virus. *Ecohealth* 15: 360-371.
  119. Casagrande, S, LZ Garamszegi, W Goymann, J Donald, CD Francis, MJ Fuxjager, JF Husak, MA Johnson, \*\*B Kircher, R Knapp, **LB Martin**, ET Miller, LA Schoenle, MN Vitousek, TD Williams, JC Wingfield, and M Hau. 2018. Do seasonal glucocorticoid changes depend on reproductive investment? A comparative approach in birds. *Integrative and Comparative Biology* 58: 739-750.
  118. Francis, CD, JW Donald, CJ Downs, MJ Fuxjager, LZ Garamszegi, W Goymann, M Hau, JF Husak, MA Johnson, \*\*B Kircher, R Knapp, **LB Martin**, ET Miller, LA Schoenle, MN Vitousek, and TD Williams. 2018. Metabolic scaling of stress hormones in vertebrate animals. *Integrative and Comparative Biology* 58: 729-738.
  117. Garamszegi, LZ, JW Donald, CD Francis, MJ Fuxjager, W Goymann, M Hau, JF Husak, MA Johnson, \*\*B Kircher, R Knapp, **LB Martin**, ET Miller, LA Schoenle, MN Vitousek, TD Williams, and JC Wingfield. 2018. Levels of glucocorticoid hormones and speciation rates in birds. *Integrative and Comparative Biology* 58: 763-776.
  116. \*\*Kernbach, ME, RJ Hall, ND Burkett-Cadena, TR Unnasch, and **LB Martin**. 2018. Dim light at night: physiological effects and ecological consequences for infectious disease. *Integrative and Comparative Biology* 58: 995-1007.
  115. \*\*Kernbach, M, \*\*C Ramsay, JR, Rohr, and **LB Martin**. 2018. Ecoimmunology: past, present and future. In *Encyclopedia of Ecology*, second edition.
  114. \*\*Kilvitis, HJ, DR Ardia, M Thiam, and **LB Martin**. 2018. Corticosterone predicts mediators of epigenetic potential and neural plasticity in the hippocampus of introduced house sparrow. *General and Comparative Biology* 269: 177-183.
  113. **Martin, LB**, JW Donald, \*\*T Flock, MJ Fuxjager, LZ Garamszegi, W Goymann, M Hau, JF Husak, MA Johnson, \*\*B Kircher, R Knapp, ET Miller, LA Schoenle, MN Vitousek, TD Williams, and CD Francis. 2018. IUCN status does not predict glucocorticoid concentrations in reptiles and birds. *Integrative and Comparative Biology* 58: 800-813.
  112. \*\*Miles, MC, JF Husak, MA Johnson, **LB Martin**, MN Vitousek, TD Williams, and MJ Fuxjager. 2018. Inter-Individual variability in circulating steroid hormones: quantitative analysis among populations and species. *Integrative and Comparative Biology* 58: 751-762.
  111. Schoenle, LA, CJ Downs, and **LB Martin**. 2018. An introduction to ecoimmunology. In *Comparative Immunology*, EL Cooper, ed., Springer.
  110. \*\*Uysal AK, **LB Martin**, ND Burkett-Cadena, D Barron, and T Shimizu. 2018. Simulated viral infection in early-life alters brain morphology, activity and behavior in zebra finches (*Taeniopygia guttata*). *Physiology and Behavior* 196: 36-46.
  109. Vitousek, MN, MA Johnson, JW Donald, CD Francis, MJ Fuxjager, W Goymann, M Hau, JF Husak, \*\*BK Kircher, R Knapp, **LB Martin**, ET Miller, LA Schoenle, and TD Williams. 2018. HormoneBase: a population-level database of steroid hormone levels across vertebrates. *Scientific Data* 5: 180097.
- 2017**
108. \*\*Brace, AJ, K Buchanan, JS Adelman, M LaJeunesse, DM Hawley, DR Ardia, KD Matson, JM Fair, and **LB Martin**. 2017. Life history and body mass drive

- costs of immune responses. *Journal of Experimental Zoology A* 10.1002/jez.2084.
107. Gervasi, SS, \*\*SC Burgan, E Hofmeister, H Hassan, TR Unnasch, and **LB Martin**. 2017. Stress hormones predict a superspreader phenotype in the West Nile virus system. *Proceedings of the Royal Society of London B: Biological Sciences* 284: 20171090.
  106. \*\*Kilvitis, HJ, H Hanson, AW Schrey, and **LB Martin**. 2017. Epigenetic potential as a mechanism of phenotypic plasticity in vertebrate range expansions. *Integrative and Comparative Biology* 57: 385-395.
  105. **Martin, LB**, \*\*HJ Kilvitis, M Thiam, and DR Ardia. 2017. Stress hormone responses in house sparrows invading Senegal. *General and Comparative Endocrinology* 250: 15-20.
  104. **Martin, LB**, \*\*HJ Kilvitis, \*\*AJ Brace, \*L Cooper, MF Haussmann, A Mutati, \*V Fasanello, S O'Brien, and DR Ardia. 2017. Costs of immunity and their role in the range expansion of the house sparrow in Kenya. *Journal of Experimental Biology* 220: 2228-2235.
  103. \*\*McMahon, TA, RK Boughton, **LB Martin**, and JR Rohr. 2017. Exposure to the herbicide, atrazine, nonlinearly affects corticosterone in tadpoles. *Journal of Herpetology* 51: 270-273.

## 2016

102. \*\*Borniger, JC, \*\*YM Cisse, RJ Nelson and **LB Martin**. 2016. Seasonal variation in stress responses. *Encyclopedia of Stress*.
101. \*\*Coon, CAC \*\*L Garcia-Longoria, **LB Martin**, \*\*S Magallanes, F de Lope, and A Marzal. 2016. Malaria infection negatively affects feather growth rate in the house sparrow. *Journal of Avian Biology* DOI: 10.1111/jav.00942.
100. Ezenwa, V, EA Archie, ME Craft, DM Hawley, **LB Martin**, J Moore, and \*\*L White. 2016. Host behaviour-parasite feedback: an essential link between animal behaviour and disease ecology. *Proceedings of the Royal Society of London B: Biological Sciences* 283: 20153078. (invited)
99. Gervasi, SS, \*\*SC Burgan, N Burkett-Cadena, AW Schrey, H Hassan, TR Unnasch, and **LB Martin**. 2016. Host stress hormones increase vector preference, feeding success, and subsequent productivity. *Proceedings of the Royal Society of London B: Biological Sciences* DOI: 10.1098/rspb.2016.1278.
98. **Martin, LB**, \*\*SA Burgan, JS Adelman, and SS Gervasi. 2016. Host competence: an organismal trait for integrating immunology and epidemiology. *Integrative and Comparative Biology* 56 (6): 1225-1237. (invited)
97. **Martin, LB**, \*\*AJ Brace, SS Gervasi, and \*\*HJ Kilvitis. 2016. Invader endocrinology: how to regulate a pesky phenotype. In JS Weis and D Sol, *Biological Invasions and Behavior*. Cambridge UP.

## 2015

96. Barron, DG, SS Gervasi, JN Pruitt, and **LB Martin**. 2015. Behavioral competence: how host behaviors interact to influence potential for parasite transmission. *Current Opinion in Behavioral Sciences* 6: 35-40.
95. \*\*Brace, AJ, \*S Shiekali, and **LB Martin**. 2015. Highway to the danger zone: exposure-dependent costs of immunity in a vertebrate ectotherm. *Functional Ecology*, 29: 924-930.
94. Gervasi, SS, DJ Civitello, \*\*HJ Kilvitis, and **LB Martin**. 2015. The context of host competence: a role for plasticity in host-parasite dynamics. *Trends in Parasitology*, in press 31: 419-425.



93. Ghalambor, CK, **LB Martin**, and HA Woods. 2015. Plasticity, complexity, and the individual: towards a truly integrative organismal biology. *In Integrative Organismal Biology*. **LB Martin**, CK Ghalambor, and HA Woods, eds, Wiley Press.
92. Hellgren, O, C Atkinson, S Bensch, T Albayrak, D Dimitrov, J Ewen, KS Kim, MR Lima, **LB Martin**, V Palinauskas, RE Ricklefs, R Seghal, G Valkiunas, Y Tsuda, and A Marzal. 2015. Global phylogeography of the invasive avian malaria parasite *Plasmodium relictum* based on MSP1 allelic diversity. *Ecography* 38: 001-009.
91. **Martin, LB** and AA Cohen. 2015. Physiological regulatory networks: the orchestra of life? *In Integrative Organismal Biology*, **LB Martin**, CK Ghalambor, and HA Woods, editors. Wiley Press.
90. **Martin, LB**, \*\*AL Liebl and \*\*HJ Kilvitis. 2015. Covariation in stress and immune gene expression in a range-expanding bird. *General and Comparative Endocrinology* 211: 14-19.
89. Romero, LM, SH Platts, SJ Schoech, H Wada, **LB Martin**, and CL Buck. 2015. Understanding stress in the healthy animal: potential paths for progress. *Stress* 18:491-497.
88. Woods, HA, CK Ghalambor, and **LB Martin**. 2015. The central role of the individual in biology. *In Integrative Organismal Biology*, **LB Martin**, CK Ghalambor, and HA Woods, editors, Wiley Press.

## 2014

87. Brock, P, C Murdock and **LB Martin**. 2014. A history of ecological immunology and its integration with disease ecology. *Integrative and Comparative Biology* 54: 353-362.
86. \*\*Coon, CAC, \*\*AJ Brace, SR McWilliams, MD McCue, and **LB Martin**. 2014. Introduced and native congeners use different resource strategies to maintain performance during infections. *Physiological and Biochemical Zoology* 87: 559-567.
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83. **Martin, LB**, RK Boughton and DR Ardia. 2014. A new division of ecoimmunology and disease ecology. *Integrative and Comparative Biology* 54: 338-339.
82. **Martin, LB**, and \*\*AL Liebl. 2014. Physiological plasticity in an avian range expansion. *General and Comparative Endocrinology* 206: 227-234.
81. **Martin, LB** and \*\*M Boruta. 2014. The impacts of urbanization on avian disease transmission and emergence. *In Avian Urban Ecology*. D Gil and H Brumm, editors
80. **Martin, LB**, \*\*CAC Coon, AW Schrey, and \*\*AL Liebl. 2014. Surveillance for microbes and range expansion in house sparrows. *Proceedings of the Royal Society of London B: Biological Sciences* 281: 20132690.
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78. Rivers, JW, \*\*AL Liebl, **LB Martin**, and MG Betts. 2014. Corticosterone in Swainson's Thrushes varies relative to forest age but not vegetative cover. *Journal of Ornithology* 155: 539-548.

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## 2013

76. Ledon-Retting, CC, CL Richards, and **LB Martin**. 2013. A place for behaviour in ecological epigenetics. *Behavioral Ecology* 24: 329-330. (invited)
75. Ledon-Retting, C, CL Richards, and **LB Martin**. 2013. Behavioural epigenetics for ecologists. *Behavioral Ecology* 24: 311-324. (invited)
74. \*\*Liebl, AL and **LB Martin**. 2013. Stress hormone receptors change as range expansion progresses in house sparrows. *Biology Letters* 9 (3) 20130181.
73. \*\*Liebl, AL, T Shimizu, and **LB Martin**. 2013. Covariation among glucocorticoid regulatory elements varies seasonally in house sparrows (*Passer domesticus*). *General and Comparative Endocrinology* 183: 32-37.
72. \*\*Liebl, AL, AW Schrey, CL Richards, and **LB Martin**. 2013. Epigenetic variation: a mechanism to overcome reduced diversity in novel environments? *Integrative and Comparative Biology* 53: 351-358.
71. Parker, JD, ME Torchin, RA Huffbauer, NP Lemoine, C Alba, DM Blumenthal, O Bossdorf, JE Byers, AM Dunn, RW Heckman, H Hedja, V Jarošík, AR Kanarek, **LB Martin**, SE Perkins, P Pyšek, K Schierenbeck, C Schlöder, R van Klineken, KJ Vaughn, W Williams, and LM Wolfe. 2013. World's worst plant and animal invaders perform better abroad than at home. *Ecology* 94: 985-994.
70. Rohr, JR, TR Raffel, \*\*NT Halstead, S Johnson, \*\*TA McMahon, and **LB Martin**. 2013. Early-life exposure to an herbicide increases disease-induced mortality later in life. *Proceedings of the Royal Society of London B: Biological Sciences* 280: 20131502.
69. Schrey, AW, \*\*M Alvarez, \*\*C Foust, \*\*H Kilvitis, \*\*AL Liebl, **LB Martin**, CL Richards, and \*\*M Robertson. 2013. Ecological epigenetics: beyond MS-AFLP. *Integrative and Comparative Biology* 53: 340-350.

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68. Cohen, AA, **LB Martin**, JC Wingfield, SR McWilliams, and JA Dunne. 2012. Physiological regulatory networks: ecological roles and evolutionary constraints. *Trends in Ecology and Evolution* 27: 428-435.
67. \*\*Liebl, AL and **LB Martin**. 2012. Exploratory behaviour and stressor hyper-responsiveness facilitate range expansion of an introduced songbird. *Proceedings of the Royal Society of London B: Biological Sciences* 1746: 4375-4381.
66. \*\*Lima, MR, RH Macedo, T Martins, AW Schrey, **LB Martin**, and S Bensch. 2012. Genetic and morphometric divergence of an invasive bird: the introduced house sparrow (*Passer domesticus*) in Brazil. *PLOS One* 7 (12) e53332.
65. **Martin, LB**, \*\*AJ Brace, \*A Urban, \*\*CAC Coon, and \*\*AL Liebl. 2012. Does immune suppression to stressors occur to promote physical performance? *Journal of Experimental Biology* 215: 4097-4103.
64. **Martin, LB**, and \*\*CAC Coon. 2012. Photoperiod-driven variation in an allergic response is independent of allergen exposure. *Canadian Journal of Zoology* 90: 1086-1093.
63. Owen, JC, \*\*A. Nakamura, \*\*CAC Coon, and **LB Martin**. 2012. The effect of exogenous corticosterone on West Nile virus infection in Northern Cardinals (*Cardinalis cardinalis*). *Veterinary Research* 43: 34-40.

62. Previtali, MA, RS Ostfeld, F Keesing, AE Jolles, \*\*R Hanselmann, and **LB Martin**. 2012. Relationship between pace of life and immune response in wild rodents. *Oikos* 121: 1483-1492.
61. Rivers, JW, \*\*AL Liebl, JC Owen, **LB Martin**, and MG Betts. 2012. Baseline corticosterone in nestlings predicts juvenile survival in a migrant songbird. *Functional Ecology* 26: 1127-1134.
60. Rohr, JR and **LB Martin**. 2012. Type I error is unlikely to hinder review recycling: a response to Montesino. *Trends in Ecology and Evolution* 27: 312-313.
59. Rohr, JR and **LB Martin**. 2012. Reduce, reuse, recycle scientific reviews. *Trends in Ecology and Evolution* 27: 192-193.
58. Schrey, AW, \*\*CAC Coon, \*MT Grispo, \*M Awad, T Imboma, ED McCoy, CL Richards, HR Mushinsky, and **LB Martin**. 2012. Epigenetic variation may compensate for decreased genetic variation with introductions: a case study using house sparrows (*Passer domesticus*) on two continents. *Genetic Research International*, Article ID 979751.

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56. **Martin, LB**, \*L Kidd, \*\*AL Liebl, and \*\*CAC Coon. 2011. Captivity induces hyperinflammation in house sparrows. *Journal of Experimental Biology* 214: 2579-2585.
55. **Martin, LB**, DM Hawley, and DR Ardia. 2011. An introduction to ecoimmunology. *Functional Ecology* 25: 1-4.
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53. **Martin, LB**, \*E Andreassi, \*W Watson, \*\*CAC Coon. 2011. Stress and animal health: physiological mechanisms and ecological consequences. *Nature Education Knowledge* 2:11.
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47. \*\*Trotter, JH, \*\*AL Liebl, and ED Weeber, **LB Martin**. 2011. Linking ecological immunology and evolutionary medicine: the case for apolipoprotein E. *Functional Ecology* 25: 40-47.

## 2010

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41. **Martin, LB**, WA Hopkins, LD Mydlarz, and JR Rohr. 2010. The effects of anthropogenic global changes on immune functions and disease resistance. *Annals of the New York Academy of Sciences. The Year in Ecology and Conservation Biology* 1195: 129-148.
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39. \*\*Adelman, JS and **LB Martin**. 2009. Vertebrate sickness behavior: an adaptive and integrated neuroendocrine immune response. *Integrative and Comparative Biology* 49: 202-214. (invited)
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37. **Martin, LB**. 2009. Stress and immunity in wild vertebrates: timing is everything. *General and Comparative Endocrinology* 163: 70-76. (invited)
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34. **Martin, LB**, \*\*ZM Weil, SL Bowers, and RJ Nelson. 2008. Sex-specific effects of glucose deprivation on cell-mediated immunity and reproduction in Siberian hamsters (*Phodopus sungorus*). *Journal of Comparative Physiology B* 178: 623-628.

33. **Martin, LB**, and DR Rubenstein. 2008. Stress hormones in tropical birds: patterns and predictions, *Ornithologia Neotropical* 19: 207-218. (invited)
32. **Martin, LB**, \*\*ZM Weil, and RJ Nelson. 2008. Fever and sickness behavior vary among congeneric rodents. *Functional Ecology* 22: 68-77.
31. **Martin, LB**, \*\*ZM Weil, and RJ Nelson. 2008. Seasonal changes in vertebrate immune activity: mediation by physiological trade-offs. *Philosophical Transactions of the Royal Society of London B: Biological Sciences* 363: 321-339. (invited)
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29. Raffel, TR, **LB Martin**, and JR Rohr. 2008. Parasites as predators: unifying natural enemy ecology. *Trends in Ecology and Evolution* 23: 610-618. (invited)
28. Rubenstein, DR, AF Parlow, \*CR Hutch, and **LB Martin**. 2008. Environmental and hormonal correlates of immune activity in a cooperatively breeding tropical bird. *General and Comparative Endocrinology* 159: 10-15.
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24. **Martin, LB**, \*MI Pless, and M Wikelski. 2007. Greater seasonal variation in blood and ectoparasite infections in a temperate than a tropical population of House Sparrows in North America. *Ibis* 149: 419-423.
23. **Martin, LB**, BC Trainor, \*MS Finy, and RJ Nelson. 2007. HPA activity and neotic and anxiety-like behavior vary among *Peromyscus* species. *General and Comparative Endocrinology* 141: 342-350.
22. Nelson, RJ and **LB Martin**. 2007. Seasonal changes in stress responses. In: *Encyclopedia of Stress*. Vol.3 Edited by George Fink. Academic Press: New York. (invited)

## 2006

21. \*\*Lee, KA, **LB Martin**, D Hasselquist, RE Ricklefs, and M Wikelski. 2006. Contrasting adaptive immune defenses and blood parasite prevalence in closely related *Passer* sparrows. *Oecologia* 150: 383-392.
20. **Martin, LB**, \*P Han, \*J Kwong, and M. Hau. 2006. Cutaneous immune activity varies with physiological state in female house sparrows (*Passer domesticus*). *Physiological and Biochemical Zoology* 79: 775-783.
19. **Martin, LB**, \*\*ZM Weil, \*JR Kuhlman, and RJ Nelson. 2006. Trade-offs within the immune system of female white-footed mice (*Peromyscus leucopus*). *Functional Ecology* 20: 630-636.
18. **Martin, LB**, \*P Han, \*J Lewittes, \*JR Kuhlman, KC Klasing, and M Wikelski. 2006. Phytohemagglutinin (PHA) induced skin swelling in birds: histological

- support for a classic immunoeological technique. *Functional Ecology* 20: 290-300.
17. **Martin, LB**, \*\*ER Glasper, RJ Nelson, and AC DeVries. 2006. Prolonged separation delays wound healing in monogamous California mice, *Peromyscus californicus*, but not in polygynous white-footed mice, *P. leucopus*. *Physiology and Behavior*. 87: 836-841.
  16. **Martin, LB**, D Hasselquist, and M Wikelski. 2006. Investment in immune defense is linked to pace of life in house sparrows. *Oecologia* 147: 565-575.
  15. **Martin, LB**, \*\*ZM Weil, and RJ Nelson. 2006. Refining approaches and diversifying directions in ecoimmunology. *Integrative and Comparative Biology* 46: 1030-1039. (invited)
  14. Trainor, BC, **LB Martin**, \*KM Greiwe, \*JR Kuhlman, and RJ Nelson. 2006. Social and photoperiod effects on reproduction in 5 *Peromyscus* species. *General and Comparative Endocrinology* 148: 252-259.
  13. \*\*Weil, ZM, \*\*LM Pyter, **LB Martin**, and RJ Nelson. 2006. Perinatal photoperiod organizes adult immune responses in Siberian hamsters (*Phodopus sungorus*). *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology* 290: R1714-1719.
  12. \*\*Weil, ZM, **LB Martin**, and RJ Nelson. 2006. Photoperiod differentially affects immune function and reproduction in collared lemmings (*Dicrostonyx groenlandicus*). *Journal of Biological Rhythms* 21: 384-393.
  11. \*\*Weil, ZM, **LB Martin**, \*\*JL Workman, and RJ Nelson. 2006. Immune challenge retards seasonal reproductive regression: evidence for terminal investment. *Biology Letters* 2: 393-396.
  10. \*\*Weil, ZM, **LB Martin**, and RJ Nelson. 2006. Interactions among immune, endocrine, and brain in response to infection. In: *Macroparasites and Micromammals: from Evolutionary Ecology to Management*. Edited by Serge Morand, Boris Krasnov, and Robert Poulin. Springer-Verlag: New York. (invited)
- 2005**
9. \*\*Berger, S, **LB Martin**, M Wikelski, LM Romero, EKV Kalko, \*\*MN Vitousek, and T. Rödl. 2005. Corticosterone, but not testosterone, suppresses immune activity in territorial Galápagos marine iguanas. *Hormones and Behavior* 47: 419-429.
  8. \*Greenman, CG, **LB Martin**, and M Hau. 2005. Reproductive state but not testosterone reduces immune function in male house sparrows (*Passer domesticus*). *Physiological and Biochemical Zoology* 78: 60-68.
  7. \*\*Lee, KA, **LB Martin**, and M. Wikelski. 2005. Responding to inflammatory challenges is less costly for a successful avian invader, the house sparrow (*Passer domesticus*), than its less invasive congener. *Oecologia* 145: 244-251.
  6. **Martin, LB**. 2005. Trade-offs between molt and immune activity in two populations of house sparrows (*Passer domesticus*). *Canadian Journal of Zoology* 83: 780-787.
  5. **Martin, LB**, and \*L. Fitzgerald. 2005. A taste for novelty in invading house sparrows. *Behavioral Ecology* 16: 702-707.
  4. **Martin, LB**, \*J Gilliam, \*P Han, \*\*KA Lee, and M Wikelski. 2005. Corticosterone suppresses immune function in temperate but not tropical house sparrows (*Passer domesticus*). *General and Comparative Endocrinology* 140: 126-135.

## 2004

3. **Martin, LB**, \*MI Pless, \*J Svoboda, and M Wikelski. 2004. Immune activity in temperate and tropical house sparrows: a common garden experiment. *Ecology* 85: 2323-2331.

## 2003

2. **Martin, LB**, A Scheuerlein, and M Wikelski. 2003. Immune activity elevates energy expenditure of House Sparrows: a link between direct and indirect costs. *Proceedings of the Royal Society of London B Biological Sciences* 270: 153-158.
1. Hayden, TJ, RH Melton, B Willis, **LB Martin**, and T Beaty. 2003. Assessment of maneuver training activities on Red-Cockaded Woodpecker populations on Fort Stewart, GA. Construction Engineering Research Laboratory, ERDC/CERL TR-02-17.

## GRANTS (total = \$3.7M since joining USF in 2007)

### Pending research awards

1. NSF-DEB 2534081 (share to Martin lab: ~\$450,000, 2026-2029)  
*Collaborative Research: Evolutionary ecology of avian malaria across urban-nonurban gradients*
2. NSF-IOS 2512018 (share to Martin lab: ~\$780,000, 2026-2030)  
*Collaborative Research: Does FKBP5 facilitate organismal resilience in stressful environments through physiological and behavioral flexibility?*
3. Simons Foundation (share to Martin lab: ~\$1,000,000, 2026-2029)  
*Effects of light pollution on West Nile virus ecology*

### Active research awards

1. NSF-IOS 2110031 (share to Martin lab: \$ 686,942)  
*IMAGINE: Collaborative Research: Linking individual variation in immunity and behavior to landscape patterns in disease risk using the National Ecological Observatory Network (NEON)*
2. NSF-IOS 2110233 (share to Martin lab: \$72,505)  
*RCN: Integrating Organismal Biology into NEON*

### Previous research awards

1. NSF-IEP 2027040 (share to Martin lab, \$772,004)  
*IMAGINE: Collaborative Research: Epigenetic potential and range expansion in the house sparrow*
2. NSF-IOS 1656618 (supplement to Martin lab: \$55,038)  
*Collaborative Research: Constraints of biomass on innate immunity across terrestrial mammals*
3. NSF-IOS 1656618 (share to Martin lab: \$517,695)  
*Collaborative Research: Constraints of biomass on innate immunity across terrestrial mammals*
4. NSF-IOS 1257773 REU (\$6000)  
*Stress hormone effects on disease resistance, tolerance and transmission*
5. USF-CAS Internal Award (\$1500)  
*Biomarkers for vertebrate pests: sparrows in Senegal*
6. NSF-IOS 1257773 (share to Martin lab \$604,000)  
*Stress hormone effects on disease resistance, tolerance and transmission*
7. NSF-DDIG 1209747 (Andrea Liebl, co-PI, \$14,923)

- Adaptive physiological and behavioral changes among populations undergoing range expansions
8. USF-CAS seed grant (\$3,150)
  9. NSF-IOS 0947177 (share to Martin lab, \$493,341)  
RCN: Redefining and diversifying ecological immunology
  10. NSF-IOS 0920475 (share to Martin lab, \$434,059)  
Physiological mediation of vertebrate invasions
  11. NSF-IOS symposium grant (\$23,340)  
Psychoneuroimmunology meets Integrative Biology, symposium  
Scott's Company, Project Blackbird (\$2,000)  
Scott's company, Project Blackbird II (\$10,000)
  12. USF New Researcher Grant (\$3,120)

### **Travel awards**

- 2024 College of Public Health, Nottingham, UK
- 2021 College of Public Health, Edinburgh, Scotland
- 2018 Center for Integrative Ecology, Deakin University, Australia
- 2012 USF International Faculty Travel Grant
- 2007 University of South Florida, Patel Center  
Society of Behavioral Neuroendocrinology
- 2004 Society of Integrative and Comparative Biology
- 2001 Princeton Association of Graduate Alumni
- 2000 Ecology and Evolutionary Biology, University of Illinois  
Graduate College Conference, University of Illinois  
Association of Field Ornithologists
- 1999 Virginia Society of Ornithology

### **Graduate fellowships**

- 2004 – 2001 Pew Charitable Trusts, Training Program in Biocomplexity
- 2004 – 2001 US Environmental Protection Agency STAR

### **INVITED SEMINARS, SYMPOSIA, AND WORKSHOPS**

- 2026 California Polytechnic, San Luis Obispo, Department of Biology  
University of Kentucky, Department of Biology  
University of Tennessee, Department of Biology  
Florida State University, Department of Biology  
University of Oslo, House Sparrow Working Group
- 2025 University of Oslo, Centre for Ecological and Evolutionary Synthesis  
European Society of Evolutionary Biology, Barcelona, Spain  
APS Summit, Gamechanger session in immunology, Baltimore, MD  
NEON Science Seminar (virtual)  
SICB symposium, Atlanta, GA, *Navigating crosscurrents*
- 2024 Gordon Research Conference, Manchester, NH, *Ecology Across Scales*  
SICB symposium, Seattle, WA, *Immunity in the 'omics age*  
BOU, Nottingham, UK, *Urban birds and stress*  
Netherlands Inst of Ecology (NIOO)  
University of Richmond, Biology, VA  
Virginia Commonwealth University, Biology, VA



- 2023 Complex Networks Winter Workshop, Quebec, Canada  
 Monod Conference, Host-parasite coevolution, Roscoff, France  
 Rochester Institute of Technology, Distinguished Speaker Series, NY  
 G2P2Pop RCN, Manaus, Brazil
- 2022 ISAE, Edinburgh, Scotland
- 2021 University of Notre Dame  
 St. Louis, Senegal (virtual)
- 2019 Indiana University, Environmental Research Institute  
 Indiana University, Biology  
 University of Pittsburgh  
 Columbia University  
 Max Planck, Radolfzell, Germany  
 Max Planck, Seeweisen, Germany  
 Konrad Lorenz Institute, Austria
- 2018 Deakin University, Australia  
 Monash University, Australia  
 University of Tasmania, Australia  
 University of Wollongong, Australia  
 University of Mississippi  
 SICB, San Francisco, CA, *HormoneBase*  
 SICB, San Francisco, CA, *Anthropogenic effects on wildlife performance*
- 2017 SICB, New Orleans, LA, *Integrative Life History and Performance*  
 Florida Fish and Wildlife, Southwest Regional meeting
- 2016 SICB, Portland, OR, *Integrative Animal Behavior* symposium  
 ESA, Ft. Lauderdale, *Resource Provisioning and Human-Pathogen Interactions in Human Modified Habitats*  
 North Dakota State University, Biology  
 HormoneBase meeting, Kochel, Germany  
 Northern Arizona University, NSF-RCN workshop
- 2015 Cary Institute for Ecosystems Studies, Millbrook, NY  
 University of Florida, Biology  
 University of Alabama, Biology  
 University of Wisconsin, Zoology  
 University of Montana, OEB  
 SICB, West Palm Beach, FL, *Cognition in a changing world* symposium  
 Ecological and Behavioral Physiology workshop, Bariloche, Argentina
- 2014 American Physiological Society, Comparative Physiology, San Diego, CA  
 Animal Behavior Society, *Behavior and Disease Ecology*, Princeton, NJ  
 NSF/NASA workshop, Stress in the Healthy Organism, Arlington, VA  
 NSF workshop, Integrative Animal Behavior, New York Genome Center  
 Colorado State University, Department of Biology  
 XIX International Course on Behavior, University of Guanajuato, Mexico  
 NSF-RCNE workshop in Ecoimmunology, Woods Hole, MA  
 University of Memphis, Department of Biological Sciences

- 2013 Duke University, Univ. Prog. in Ecology (Graduate Student invited speaker)  
The Wildlife Society, 'Urbanization' symposium, Milwaukee, WI  
University of South Florida, Global Health  
Western Michigan University, Biological Sciences  
University of Virginia, Biology
- 2012 National Museums of Kenya, Nairobi, Kenya  
Bucknell University, Biology (Darwin Day speaker)  
International Society for Avian Endocrinology, Gifu, Japan  
University of Florida, Animal Molecular and Cellular Biology Program
- 2011 University of Tartu (Estonia)  
University of Georgia, Ecology  
Oregon State University, Veterinary Science  
Penn State University, Center for Infectious Disease Dynamics
- 2010 University of Edinburgh (Scotland)  
Tufts University (Graduate Student invited speaker)  
University of North Carolina (Graduate Student invited speaker)  
Wake Forest University
- 2009 Archbold Biological Station, Venus, FL  
George A. Bartholomew Award lecture, SICB, Boston, MA  
University of Kentucky, Department of Biology
- 2008 Cary Institute for Ecosystems Studies, Millbrook, NY  
University of Central Florida, Department of Biology  
NSF RCN: Ecology and Evolution of Invasions, Prague, Czech Republic  
University of South Florida, Department of Psychology  
University of Tampa, Department of Biology
- 2007 Auburn University, Department of Biological Sciences  
Society for Behavioral Neuroendocrinology, Pacific Grove, CA  
VIII Neotropical Ornithological Conference, Maturín, Venezuela  
UNC Wilmington, Department of Biology and Marine Biology  
Oklahoma State University, Department of Zoology  
Boise State University, Department of Biology  
University of South Florida, Department of Biology  
University at Albany, Department of Biological Sciences  
University of South Carolina, Department of Biological Sciences  
Kansas State University, Division of Biology
- 2006 University of Buffalo, Department of Biological Sciences  
North American Ornithological Congress, Veracruz, Mexico  
*Diversification of the Life Histories of Birds*  
College of Wooster, Department of Biology  
Society of Integrative and Comparative Biology, Orlando, FL.  
*Ecological Immunology: Recent Advances and Applications*
- 2005 University of Montana, Division of Biological Sciences  
Eastern Michigan University, Department of Biology  
Ohio State University, Behavioral Neuroscience Program
- 2003 121<sup>st</sup> meeting of the American Ornithologist's Union, Champaign, IL  
*S. Charles Kendeigh Symposium*

#### **SYMPOSIA AND WORKSHOPS ORGANIZED**

- 2026 RCN Organismal Biology, Boulder, CO, NEON headquarters  
RCN Organismal Biology in NEON Portland, OR, *Endocrine flexibility*
- 2025 RCN Organismal Biology in NEON (second visit), Arizona State U, AZ

- SICB, Atlanta, GA, *Organismal systems biology*
- 2024 COVID Conversations, Heterodox Academy and USF Health, Tampa, FL  
RCN Organismal Biology in NEON, Arizona State U, AZ
- 2023 RCN Organismal Biology in NEON, Archbold Biological Station, FL
- 2022 International Society for Avian Endocrinology, Edinburgh, Scotland  
RCN Organismal Biology in NEON, Rocky Mountain Biological Lab, CO
- 2020 SICB, Austin, TX, *Epigenetic variation in endocrine systems*
- 2019 SICB, Tampa, FL, *The scale of sickness*  
American Ornithologists Society, Anchorage, AK  
*A bright future for birds?*
- 2018 Deakin University Center for Integrative Ecology  
*Host competence* (with Kate Buchanan)
- 2014 American Physiological Society, San Diego, CA  
*Ecology and evolution of homeostasis* (with Art Woods)
- 2013 RCN Ecoimmunology, Berlin, Germany
- 2011 RCN Ecoimmunology, Edinburgh, Scotland
- 2010 RCN Ecoimmunology, Tampa, FL
- 2009 SICB, Boston, MA. *Psychoneuroimmunology Meets Integrative Biology.*
- 2008 American Ornithologist's Union, Young Investigator Symposium
- 2006 XXIV International Ornithological Congress, Hamburg, Germany.  
*Comparative avian immunology: from poultry to passerine*

#### **TEACHING and MENTORING**

- 2026 University of South Florida, Disease Ecology  
(Spring)  
University of South Florida, Animal Behavior in a Changing World  
(Spring), Genshaft Honor's College
- 2025 University of South Florida, Evolutionary Medicine  
(Fall)  
University of South Florida, Disease Ecology  
(Spring)
- 2024 University of South Florida, Evolutionary Medicine  
(Fall)  
University of South Florida, Disease Ecology  
(Spring)
- 2023 University of South Florida, Evolutionary Medicine  
(Fall)
- 2022 University of South Florida, Fundamentals of PH Immunology  
(Summer, Fall)
- 2021 University of South Florida, Fundamentals of PH Immunology  
(Spring, Summer, Fall)
- 2020 University of South Florida, Fundamentals of PH Immunology  
(Spring, Summer, Fall)
- 2019 University of South Florida, Fundamentals of PH Immunology  
(Spring, Summer, Fall)
- 2017 University of South Florida, The Extended Synthesis  
University of South Florida, Evolutionary Medicine  
University of South Florida, Stress in Wildlife  
University of South Florida, Disease Biology
- 2016 University of South Florida, Evolutionary Medicine  
University of South Florida, Evolution in 4 Dimensions

	University of South Florida, Disease Biology
2015	University of South Florida, Evolutionary Medicine
	University of South Florida, Disease Biology
	University of South Florida, Int Org Biology
2014	University of South Florida, Lectures in Contemporary Bio
	University of South Florida, Introduction to Biodiversity
	University of South Florida, Disease Biology
2013	University of South Florida, Physiological Ecology
	University of South Florida, Evolutionary Medicine
2012	University of South Florida, Ecoimmunology
	University of South Florida, Introduction to Biodiversity
	University of South Florida, Evolutionary Medicine
2011	University of South Florida, Lectures in Contemporary Bio
	University of South Florida, Lectures in Contemporary Bio
	University of South Florida, Introduction to Biodiversity
	University of South Florida, The Extended Synthesis
	University of South Florida, Physiological Ecology
2010	University of South Florida, Ecoimmunology
	University of South Florida, Evolutionary Medicine
2009	University of South Florida, Immunology in Context
	University of South Florida, Introduction to Biodiversity
	University of South Florida, Evolutionary Medicine
	University of South Florida, Advanced Vertebrate Ecophysiology
2008	University of South Florida, Physiological Ecology
	University of South Florida, Evolutionary Medicine
2003	Princeton University, Guest lecturer, Comparative Physiology
2002	Princeton University, Teaching Assistant, Introductory Biology
2001	Princeton University, Teaching Assistant, Tropical Ecology
1999	University of Illinois, Teaching Assistant, Introductory Biology
1997 – 1999	Virginia Commonwealth University, Teaching Assistant, Intro. Biology

### **Postdoc advisees**

2025	Nate Gibson, PhD, UT Knoxville
2023 – 2025	Vania Assis, PhD, Universidade de Sao Paulo
2022 – 2023	Rachel Munds, PhD, University of Missouri
2021 – 2023	Madhvi Venkatraman, PhD, U Maryland, NSF PRSB Fellow
2022 – 2023	Blanca Jimeno, PhD, U Groningen, MSCA Fellow
2021 – 2023	Ellie Sheldon, PhD, 2018, Macquarie U
2019 – 2021	Cedric Zimmer, PhD, 2010, U Strasbourg
2019 – 2021	Emily Ruhs, PhD
2017 – 2018	Laura Schoenle, PhD
2014 – 2017	Leone Brown, PhD
2014 – 2015	Steph Gervasi, PhD
2014	Doug Barron, PhD
2011	Cris Ledon-Rettig, PhD

### **Graduate advisees**

#### *In progress*

Kailey McCain, PhD expected, May 2027  
 Gabi Cifarelli, MPH expected, May 2026  
 Nate Dowling, MS expected, May 2026

Caroline Patsko, MPH expected, May 2027

**Complete**

2023	Kailey McCain, MSPH
2021	Kyle Koller, MSPH
2021	Haley Hanson, PhD
2021	Meredith Kernbach, PhD
2017	Holly Kilvitis, PhD
2016	Amber Brace, PhD
2016	Sarah Burgan, MS
2014	Martyna Boruta, MS
2014	Courtney Coon, PhD
2013	Andrea Liebl, PhD
2010	Joshua Kuhlman, MS

**American Public Health Laboratory Fellows**

2025	Caroline Merriman Kirsten Yeomans
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**Undergraduate honors theses**

2025	Adam Kwon
2022	Michael Chase
2021	Bilal Koussayer
2019	Hannah Droke
2015	Samantha Murphy
2014	Lisette Mole
2013	Chloe Josefson (PhD student, Auburn, Hood lab)
2012	Allesandra Araujo (MS student, Indiana State, Warne lab), Brittany Leigh (PhD student, USF Marine Sciences, Breitbart lab), Desirae Wiley
2011	Alexandra Urban (Vet student, U Florida)
2010	Laura Kidd (Med student, USF), Jaymin Patel (Med student, USF)
2009	Sean Argo, Nerlyne Desravines, Elaine Rindfuss (MS, Lund University, Sweden), Nhan Tu (PhD student, USF Medicine)

**Undergraduate honors thesis committee**

2009	Andrea Schlunk
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**Undergraduate research advisees**

2025	Jaylee Ciaschini, Charles Foust, Anya Kalakota, Veronica Lewis, Adam Kwon, Caroline Merriman, Olivia Speers, Joshua Weeks
2024	Samantha Arias, Jaylee Ciaschini, Charles Foust, Veronica Lewis, Adam Kwon, Caroline Merriman, Olivia Speers, Joshua Weeks
2023	Kevin Galassini, Gabby Mansilla, Kobe Phillips, Corine Thomas, Max Ungrey
2022	Michael Chase, Paige Garland, Kobe Phillips
2021	Michael Chase, Bilal Koussayer, Darrys Reese
2020	Michael Chase, Aimee Fernandez, Bilal Koussayer, Darrys Reese, Carter Sadowski, Elena Shaw
2019	Kaitlyn Clausen, Aimee Fernandez, Sarah Guzinski, Bilal Koussayer, Noreen Mathews, Lexi Sauser

2018	Brianna Butler, Kaitlyn Clausen, Masiel Espino, Aimee Fernandez, Maci Galan, Sarah Guzinski, Maya Henning, Miranda Jolly, Kyle Koller, Bilal Koussayer, Olalade Ogusina, Angelo Pata, Angela Roberts, Lexi Sauser, Sofia Travis, Jaime Zolik
2017	Kiley Chernicky, Thomas Daniel, Natasha Infante, Alexandra Johncola, Lauren Kenney, Kate Kleiber, Urszula Komenda, Natale Maycock, Ben Meyer, Jeanette Miller, Eric Presley, Shawn Zamani, Jaime Zolik
2016	Haley Hanson, Laura Hebert, Jeanette Miller, Samantha Murphy
2015	Travis Bautista, Laura Hebert, Shadi Homayoun, Ian Ford, Jeanette Miller, Lisette Mole, Samantha Murphy
2014	Travis Bautista, Ian Ford, Lisette Mole, Steffanie Munguia, Nicole Perez
2013	Travis Bautista, Bo Everett, Ryan Holbrook, Chloe Josefson, Sarah Kelp, Jen Marvin, Lisette Mole, Steffanie Munguia, Nicole Perez, Shreenath Rajendran, Amanda Rigney, Sam Sheikali
2012	Allesandra Araujo, Travis Bautista, Yuya Burkhart, Bo Everett, Ryan Holbrook, Chloe Josefson, Sarah Kelp, Brittany Leigh, Cristina Ruiz Lorenzo, Sara McLaughlin, Steffanie Munguia, Ahn-My Nguyen, Sasha Sierra, Victoria Simenson, Desirae Wiley
2011	Allesandra Araujo, Amber Brace, Chris Caruana, Celina Diego, Ashley Garringer, Melinda Fang, Brittany Leigh, Cristina Ruiz Lorenzo, Holly Kilvitis, Sara McLaughlin, Ahn-My Nguyen, Jennie Nwokoye, Staci Reed, Roanak Shah, Sasha Sierra, Victoria Simenson, Alex Urban, Desirae Wiley
2010	Elizabeth Andreassi, Amber Brace, Chris Caruana, Melinda Fang, Ashley Garringer, Laura Kidd, Brittany Leigh, Sara McLaughlin, David Nicholson, Jaymin Patel, Evelyn Schmidt, Roanak Shah, Alexandra Urban, Will Watson
2009	Jen Alam, Said Awad, Mohammed Awad, Patrick Blackburn, Matthew Cook, Nerlyne Desravines, Ashley Garringer, Laura Kidd, Brittany Leigh, Neel Nabar, David Nicholson, Jaymin Patel, Chad Ponce, Evelyn Schmidt, Justin Trotter, Alexandra Urban, Will Watson
2008	Ohio State: Eric Johnson, Brandon Pollak USF: Jen Alam, Sean Argo, Said Awad, Mohammed Awad, Patrick Blackburn, Jonathan Dawson, Laura Kidd, Max Miller, Tri Nguyen, Trina Patel, Shauna Pittman, Elaine Rindfuss, Ed Thrombley, Nahn Tu
2005 – 2007	Ohio State: Mike Hamway, Chelsea Hutch, Josh Kuhlman, Eric Johnson, Brandon Pollak
2002 – 2003	Princeton: Jessica Gilliam, Chris Greenman, Peggy Han, Jason Lewittes, Monica Pless, Julia Svoboda

#### **Graduate thesis committee membership**

2022-2024	Indira Goldman (USF IB)
2021-2023	Elizabeth Traverse (USF GHIDR)
2021-2023	Dylan Gallinson (USF Genomics)
2020-2022	Ellesse Lauer (Georgia Southern)
2019-2021	Mikayla Maddison (USF Global Health)
2017-2020	Kristi Miley (USF Global Health)
2016-2021	Natalie Claunch (U Florida)
2016-2018	Chloe Ramsay (USF IB)
2013-2014	Blaire O'Neal (USF Env Sci Policy)
2012-2017	Ahmet Kerim Uysal (USF Psychology)

2011-2017	Anna Rivara (USF Anthropology)
2010-2012	Christina Kobasa (USF IB)
2014-2018	Erin Sauer (USF IB)
2007-2013	Chris Anderson, Lance Arvidson, Kerry Bohl, Jayne Gardiner, Taeghan McMahon, Nick Osman (USF IB)

#### **Post-doctoral fellowship application sponsorships**

2022	Blanca Jimeno, MCSA Fellowship (awarded)
2021	Madhvi Venkatraman, NSF PRFB (awarded)
2019	Blanca Jimeno, EMBO Fellowship
2015	John Eimes, MCSA Fellowship
2014	Leone Brown, NSF Biomathematics Fellowship (awarded)
2012	Roi Dor, Marie Curie Career Re-integration Grant (Israel, U Tel Aviv)
	Leone Brown, NIH Ruth Kirchstein Fellowship
2011	Leone Brown, Life Sciences Research Foundation
2009	Cris Ledon-Rettig, NSF Minority Post-doctoral Fellowship (awarded)
	Peter Pap, Marie Curie Fellowship application
2008	Jim Rivers, Smith Fellowship, Society for Conservation Biology
2008	Dustin Rubenstein, eBIRD travel grant awardee (NSF-RCN, awarded)
2007	Jim Rivers, Co-PI for NSF International Post-doctoral Fellowship

#### **External PhD thesis examiner:**

2022	Sarah Lundregan (NTNU, Norway)
2016	Ntaki Senoge, University of KwaZulu-Natal, South Africa (Downs lab)
2014	Darryl Edwards, Laurentian University (Ontario) (Schulte-Hostedde lab)
2011	Elin Sild, University of Tartu (Estonia) (Horak lab)

#### **SERVICE**

##### **Founder, co-host and co-producer**

2017-present *Big Biology* podcast (<https://www.bigbiology.org>)

##### **Founder**

2014	Division of Ecological Immunology and Disease Ecology, Society for Integrative and Comparative Biology
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##### **Leadership**

2022-2023	Director, USF CPH PhD concentration in Global and Communicable Diseases
	Director, USF CPH MSPH concentration in Global and Communicable Diseases
2014-2015	Chair, Division of Ecological Immunology and Disease Ecology, Society for Integrative and Comparative Biology
2014	Chair, USF-IB Graduate Admissions and Policy Committee

##### **Editorial service**

2025 – present	Editorial Board, <i>Brains, Behavior, and Immunity</i>
2021 – present	Editorial Board, <i>Hormones and Behavior</i>
2018 – present	Associate Editor, <i>American Naturalist</i>
2016 – 2022	Editorial Board, <i>Biology Letters</i>
2018 – 2021	Editorial Board, <i>Conservation Physiology</i>
2017 – 2021	Editorial Board, <i>Journal of Experimental Biology</i>
2015 – 2018	Editor-in-Chief, <i>Integrative and Comparative Biology</i>
2010 – 2015	Editorial Board, <i>Functional Ecology</i>
2010 – 2016	Editorial Board, <i>Proceedings of the Royal Society of London, B</i>
2009 - 2011	Guest Editor, <i>Functional Ecology</i> , Ecological Immunology Issue

### **Professional organizations**

1999 – present	Member, American Ornithologists Society
2001 – present	Member, Society for Integrative and Comparative Biology
2001 – present	Full member, Sigma Xi Scientific Honor Society
2007 – 2009	Member, Psychoneuroimmunological Research Society
2005 – 2014	Member, Society of Behavioral Neuroendocrinology
2004 – 2006	Member, Ecological Society of America
2000 – 2007	Member, Alpha Phi Alpha Honor Society
1996 – 1997	President, Graduate Organization of Biology Students, VCU

### **Professional committees**

2024-2025	SICB Public Affairs Committee
2014 – 2018	SICB Executive Council
2013 – 2017, 2022	George Bartholomew Award committee, SICB-DCPB
2011 – 2012	Student Award Committee, American Ornithologists Union
2009 – 2010	Chair, Awards Committee, American Ornithologists Union
2007 – 2009	Awards Committee, American Ornithologists Union
2007 – 2009	Early Professional Committee, American Ornithologists Union

### **University of South Florida**

2011 – 2013	Graduate Council (and Curriculum subcommittee member)
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### **University of South Florida, College of Arts and Sciences**

2014-2015	Graduate Committee
2010-2012	Instructor Promotion Committee

### **University of South Florida, School of Natural Sciences and Mathematics**

2014-2015	Tenure and Promotion Committee
2012-2013	Search Committee, Computational Science cluster hire

### **University of South Florida, College of Public Health**

2024-2025	Infectious Disease Biologist Professor search
2022-2024	MSPH lab rotation coordinator
2022-present	GHIDR/Genomics journal club co-lead
2017-2018	Genomics faculty search
2017	Eukaryotic pathogen faculty search

### **University of South Florida Integrative Biology**

2015-2016	USF-IB Disease Biologist Search Committee (chair)
2012-2014	USF-IB Visibility Committee



2011	USF-IB Internal Chair Search Committee
2013 – 2014	USF-IB Faculty Advisory Committee
2010 – 2013	USF-IB Faculty Advisory Committee
2008 – 2010	USF-IB Graduate Admissions and Policy Committee
2008 – 2010	USF-IB Seminar Committee
2009	USF-IB Instructor Search Committee
2009	USF-IB Disease Biologist Search Committee

#### **Panel service**

2024	Morris Animal Foundation
2023	National Science Foundation, BII virtual site visits
2022	National Science Foundation, BII
2020	National Science Foundation, IEP
2018	National Science Foundation, Committee of Visitors, IOS
2016	National Science Foundation, IEP
2016	National Science Foundation, SDS
2015	National Science Foundation, Animal Behavior
2015	National Science Foundation, Animal Behavior
2013	National Science Foundation, Animal Behavior
2012	National Science Foundation, Animal Behavior
2010	National Science Foundation, OEI

#### **PUBLIC OUTREACH**

2014-2017	<i>Science Works Theater</i> : Pick Your Brain, with Museum of Science and Industry, Tampa, FL
2014	Judge, Hillsborough County Science Fair, 3-5 grades, Tampa Convention Center, February
	Judge, 59 <sup>th</sup> State Science and Engineering Fair of Florida, Lakeland, April
2008	Judge, Student Presentations, Society for Integrative and Comparative Biology (2 divisions)
2006	Judge, Student Presentations, North American Ornithological Congress
	Judge, Ohio Academy of Sciences, State Science Day
2005	Judge, Denman Undergraduate Research Forum, Ohio State University
	Speaker, Career Day, Mansion Day School, Columbus OH
	Interpreter, Brain Awareness Week, COSI Science Center, Columbus OH
2004	Contributor, National Institute of Invasive Species Science Database
	Advocate, New York Bird Monitoring, Wildlife Conservation Society