

SUSAN L. PERKINS

Curator and Professor
Division of Invertebrate Zoology
Sackler Institute for Comparative Genomics
Richard Gilder Graduate School
American Museum of Natural History Central
Park West at 79th Street
New York, New York 10024

Phone: (212) 313-7646
Fax: (212) 769-7819
Email: perkins@amnh.org
Website: <http://susanperkins.net>

EDUCATION

- Ph.D., Biology (Ecology and Evolution), University of Vermont. 2000. Advisor: Jos. J. Schall
- Department of Zoology, University of Maryland at College Park. 1993-1995.
- B.A., Biology, State University of New York at Potsdam. 1993.

POSITIONS HELD

- Curator and Professor. American Museum of Natural History. 2015-present.
- Adjunct Faculty Member. Ecology, Evolution and Behavior Subprogram of Biology. The Graduate Center, City University of New York. 2005-present.
- Associate Curator and Professor. American Museum of Natural History. 2009-2015.
- Research Adjunct Faculty, Columbia University, Ecology, Evolution, and Environmental Biology Department. 2010-2017.
- Program Director. National Science Foundation. Division of Environmental Biology, Systematics and Biodiversity Science Cluster. 2010-2011.
- Assistant Professor. Richard Gilder Graduate School, American Museum of Natural History. 2008-2009.
- Assistant Curator. American Museum of Natural History. 2004-2009.
- Adjunct Faculty Member. New York University School of Medicine, Department of Medical Parasitology. 2006-2013.
- Assistant Professor. University of Colorado, Ecology and Evolutionary Biology. 2001-2004.
- NSF Bioinformatics Postdoctoral Fellow. American Museum of Natural History. 2001.
- Roosevelt Postdoctoral Fellow. American Museum of Natural History. 2000.

AWARDS/HONORS/LEADERSHIP

- President, American Society of Parasitologists. 2017-2018.
- President, AMNH Scientific Senate. 2016-2018.
- Distinguished Alumna Award, SUNY at Potsdam, 2013.
- Daniel C. Wilhoft Lecture in Ecology and Evolution, Rutgers University at Newark. 2011.
- National Science Foundation Bioinformatics Postdoctoral Fellowship. 2001
- Roosevelt Research Fellowship, American Museum of Natural History, 2000.

FUNDING

Peer-Reviewed Proposals – Current Awards

1. NIH: Adapting to New Hosts: Identifying Genes Under Selection in Malaria Parasites. (subaward; \$30,000). 2016-2018. (no cost-extension period)
2. NSF: Collaborative Research: A Biotic Inventory of Terrestrial Vertebrates, Spiders, and Haemosporidia Parasites of Sulawesi, Indonesia. (PI; \$201,653). 2015-2020.

Peer-Reviewed Proposals – Recent Awards

3. AMNH: Explore 21: Biodiversity Surveys in Poorly Explored Regions of Cuba: Developing New Research Collections and Collaborations. (PI; \$85,000) 2015-2016.
4. AMNH: Explore 21: Biodiversity Survey of the Strickland-Lagaip Divide: Reconstructing Evolutionary History of New Guinea's Montane Biotas. (Co-PI; \$81,850) 2014-2015.
5. NSF: REU Site: Systematics and Evolution for the 21st Century. (Co-PI; \$654,157). 2014-2019.
6. NSF: Dissertation Research: Systematics and Biogeography of the *Trypanosoma cruzi* clade. (PI: \$20,766). 2013-2014.
7. NSF: Dissertation Research: Diversification and Species Delimitation in Lizard Malaria Parasites. (Co-PI; \$14,451). 2011-2012.
8. NSF: Collaborative Research: The Unique Skinks of New Guinea: Diversity, Systematics, and Malaria Parasites. (PI; \$469,730). 2012-2015.
9. NSF: Biotic Surveys of Central Saharan Oases. (Co-PI; \$844,000). 2010-2014.
10. NSF: REU Site: 25 Years of Undergraduate Research in Evolution and Systematics at the American Museum of Natural History. (co-PI; \$475,500). 2009-2014.

Other funded grant activity:

- Kellen Foundation: MicroRangers: An Exhibit-Based Mobile Gaming Program about Microbial Organisms, Biodiversity, and Human Health. 2014-present. (Scientific Advisor, \$250,000)
- NIH Science Education Partnership Award. Human Health, Biodiversity, and Microbial Ecology: Strategies to Educate. 2014-present. (Senior Personnel, Scientific Advisor, \$ 1.1 million)
- NSF DEB-0954891. Research Coordination Network for Haemosporida of Terrestrial Vertebrates: A Model Parasite-Host System. 2009-present. (Senior Personnel, \$499,988).

PUBLICATIONS

Orcid ID: orcid.org/0000-0002-5400-5662

SCOPUS author ID: 7201961730

Books:

R. DeSalle and S. L. Perkins. 2015. Welcome to the Microbiome: Getting to Know the Trillions of Bacteria In, On, and Around You. Yale University Press.

Carlton, J. M., Deitsch, K., and Perkins, S. L., editors. 2013. Comparative Genomics of Malaria Parasites. Horizon Press.

Journal Articles and Contributed Chapters:

(Reverse chronologic order. Student authors who were working under my mentorship are underlined.)

69. Perkins, S. L. 2018. Parasitology: diversity and inclusion for the future. *Journal of Parasitology* 104:579-583.

68. Galen, S.C., R. Nunes, P.R. Sweet, and S.L. Perkins. 2018. Integrating coalescent species delimitation with analysis of host specificity reveals extensive cryptic diversity despite minimal mitochondrial divergence in the malaria parasite genus *Leucocytozoon*. *BMC Evolutionary Biology* 18:128.

67. Ingala, M., N. B. Simmons and S. L. Perkins. 2018. Bats are an untapped system for understanding microbiome evolution in mammals. *mSphere* 5:e00397-18.

66. Galen, S.C., Borner, J., Martinsen, E., Schaer, J., Austin, C. C., West, C., and S.L. Perkins. 2018. The polyphyly of *Plasmodium*: Comprehensive phylogenetic analyses of the malaria parasites (order Haemosporida) reveal widespread taxonomic conflict. *Royal Society Open Science* 5:171780.

65. Rodriguez, Z.B., S.L. Perkins, and C.C. Austin. 2018. Multiple origins of green blood in New Guinea lizards. *Science Advances* 4: eaao5017.

64. Ingala, M.R., N. Simmons, C. Wultsch, K. Krampis, K.A. Speer, and S.L. Perkins. 2018. Comparing microbiome sampling methods in a wild mammal: fecal and intestinal samples record different signals of host ecology, evolution. *Frontiers in Microbiology* 9:803.

63. Perkins, S.L. 2018. Malaria in farmed ungulates: an exciting new system for comparative parasitology. *mSphere* 3:e00161-18.

62. Nada, R.T., Hu, T.H., Zinudin, R., Lee, K.S., Perkins, S.L., and B. Singh. 2018. Malaria parasites of long-tailed macaques in Sarawak, Malaysian Borneo: a novel species and demographic and evolutionary histories. *BMC Evolutionary Biology* 18:49.

61. Yabsley, M. J., R. E. T. Vanstreels, E. S. Martinsen, A. G. Wickson, A. E. Holland, S. M., Hernandez, A. T. Thompson, S. L. Perkins, C. J. West, A. L. Bryan, C. A. Cleveland, E. Jolly, J. D. Brown, D. McRuer, S. Behmke, and J. C. Beasley. 2018. Molecular characterization of *Haemoproteus catharti* from New World vultures (Cathartidae) reveals a novel clade of Haemosporida. *Malaria Journal* 17:12.

60. Boundenga, L., S. L. Perkins, B. Ollomo, V. Rougeron, E. M. Leroy, F. Renaud, and F. Prugnolle. 2017. Haemosporidian parasites of reptiles and birds from Gabon, Central Africa. *Journal of Parasitology* 103: 330-337.

59. Schaer, J., S. L. Perkins, I. Ejotre, M. E. Vodzak, K. Matuschewski, and D. M. Reeder. 2017. Epauletted fruit bats display exceptionally high infections with a *Hepatocestis* species complex in South Sudan. *Scientific Reports* 7: 6928.
58. Perkins, S. L. and J. Schaer. 2016. A modern menagerie of mammal malaria. *Trends in Parasitology*. 32:772-782.
57. Martinsen, E.S., N. McInerney, H. Brightman, K. Ferebee, T. Walsh, W.J. McShea, T.D. Forrester, L. Ware, P.H. Joyner, S.L.Perkins, E.K. Latch, M.J. Yabsley, and R.C. Fleischer. 2016. Hidden in plain sight: cryptic and endemic malaria parasite in North American white-tailed deer (*Odocoileus virginianus*). *Science Advances* 2:e1501486.
56. Pinto, C. M., S. Ocaño-Mayorga, E. Tapia, S. Lobos, A. Zurita, F. Aguirre Villacís, A. MacDonald, A. Villacís, L. Lima, M. Teixeira, M. Grijalva, and S. L. Perkins. 2015. Bats, trypanosomes, and triatomines in Ecuador: new insights into the diversity, transmission and origins of *Trypanosome cruzi* and Chagas Disease. *PLoS One*. e0139999.
55. Murdock, C. C., P. H. Adler, J. Frank, and S. L. Perkins. 2015. Molecular analyses of host-seeking blackflies (Diptera: Simuliidae) reveal a diverse assemblage of *Leucocytozoon* (Apicomplexa: Haemospororida) parasites in an alpine ecosystem. *Parasites and Vectors*. 8:343.
54. Falk, B. G., R. E. Glor, and S. L. Perkins. 2015. Clonal reproduction shapes evolution in the lizard malaria parasite, *Plasmodium floridense*. *Evolution*. 69:1584-1596.
53. Falk, B. G. and S. L. Perkins. 2015. Parasite diversification in Caribbean *Anolis* lizards. In: *Parasite Diversity and Diversification: Evolutionary Ecology Meets Phylogenetics*. Morand, S., B. R. Krasnov, and D. T. J. Littlewood (Eds.), Cambridge University Press.
52. Schaer, J., D. M. Reeder, M. E. Vodzak, K. J. Olival, N. Weber, F. Mayer, K. Matuschewski, and S. L. Perkins. 2015. *Nycteria* parasites of Afrotropical bats. *International Journal for Parasitology*. 45:375-384.
51. Cottontail, V. M.*, E. K. V. Kalko, I. Cottontail, N. Wellinghausen, M. Tschapka, S. L. Perkins, and C. M. Pinto*. 2014. High local diversity of *Trypanosoma* in a common bat species, and implications for the biogeography and taxonomy of the *T. cruzi* clade. *PLoS ONE* 9(9): e108603. *Authors contributed equally.
50. Perkins, S. L. 2014. Malaria's many mates: past, present, and future of the systematics of the order Haemosporida. *Journal of Parasitology* 100:11-25.
49. Schaer, J.*, S. L. Perkins*, J. Decher, F. Leendertz, J. Fahr, N. Weber, and K. Matuschewski. 2013. High diversity of West Africa bat malaria parasites and a tight link with rodent *Plasmodium* taxa. *Proceedings of the National Academy of Sciences, USA*. 110:17415-17419 *Authors contributed equally.
48. Pineda-Catalan, O.*, S. L. Perkins*, M. A. Peirce, R. Engstrand, C. Garcia- Davila, M. Pinedo-Vasquez, and A. A. Aguirre. 2013. Revision of hemoproteid genera and description and redescription of two species of chelonian hemoproteid parasites. *Journal of Parasitology* 99: 1089-1098. (*co-first- authors)

47. Olival, K. J., C. W. Dick, N. B. Simmons, J. C. Morales, D. J. Melnick, K. Dittmar, S. L. Perkins, P. Daszak, and R. Desalle. 2013. Lack of population genetic structure and host specificity in the bat fly, *Cyclopeda borsfieldi*, across species of *Pteropus* bats in Southeast Asia. *Parasites and Vectors* 6:231.
46. Falk, B. G., and S. L. Perkins. 2013. Host specificity shapes population structure of pinworm parasites in Caribbean reptiles. *Molecular Ecology* 22:4576-4590.
45. Pinto, M., K. M. Helgen, R. C. Fleischer, and S. L. Perkins. 2013. *Hepatozoon* parasites (Apicomplexa: Adeleorina) in bats. *Journal of Parasitology* 99:722-724.
44. Martinsen, E. S., and S. L. Perkins. 2013. The diversity of *Plasmodium* and other haemosporidians: the intersection of taxonomy, phylogenetics, and genomics. In: *Comparative Genomics of Malaria Parasites*. Carlton, J. M., Deitsch, K., and Perkins, S. L. (Eds.), Horizon Press.
43. Perkins, S. L., E. S. Martinsen, and B. G. Falk. 2011. Do molecules matter more than morphology? Promises and pitfalls in parasites. *Parasitology* 138:1664-1674.
42. Falk, B. G., S. L. Perkins, and D. L. Mahler. 2011. Tree-based delimitation of morphologically ambiguous taxa: a survey of the malaria parasites of Hispaniola. *International Journal for Parasitology* 41:967-980.
41. Valkiunas, G., R. W. Ashford, S. Bensch, R. Killick-Kendrick, and S. Perkins. 2011. A cautionary note concerning *Plasmodium* in apes. *Trends in Parasitology* 27:231-232.
40. Belanger, D.H., S. L. Perkins, and R. F. Rockwell. 2011. Inference of population structure and patterns of gene flow in canine heartworm (*Dirofilaria immitis*). *Journal of Parasitology* 97:602-609.
39. Gomez, A., E. Nichols, and S. L. Perkins. 2011. Parasite conservation, conservation medicine, and ecosystem health. In: *Conservation Medicine: Applied Cases of Ecological Health*. Aguirre, A.A., Daszak, P., Ostfeld, R.S. (Eds.), Oxford University Press, New York.
38. Belanger, D. H., and S. L. Perkins. 2010. *Wolbachia* infection and mitochondrial diversity in the canine heartworm (*Dirofilaria immitis*). *Mitochondrial DNA* 21:227-233.
37. Waltari, E., and S. L. Perkins. 2010. In the host's footsteps? Ecological niche modeling and its utility in predicting parasite distributions. In: *The Geography of Host-Parasite Interactions*. Morand, S., and B. Krasnov (Eds.) Oxford University Press.
36. Murdock, C. C., K. J. Olival, and S. L. Perkins. 2010. Molecular identification of host feeding patterns of snow-melt mosquitoes (Diptera: Culicidae): Potential implications for the transmission of Jamestown Canyon Virus. *Journal of Medical Entomology* 47:226-229.
35. Ng, J., S. L. Perkins, E. J. Dussmann, and R. E. Glor. 2009. Eleven highly polymorphic microsatellite markers for the lizard *Anolis distichus*. *Conservation Genetic Resources* 1:135-139.
34. Greiner, E., K. Crook, and S. Perkins. 2009. Apparent absence of *Parahaemoproteus lophortyx* in north Florida population of Bobwhite Quail (*Colinus virginianus*). *Journal of Parasitology* 95:1142-1144.

33. Kishore, S. P., S. L. Perkins, T. J. Templeton, and K. W. Deitsch. 2009. An unusual expansion of the C-terminal domain of RNA polymerase II in primate malaria parasites features a motif only otherwise found in mammalian polymerases. *Journal of Molecular Evolution* 68:706-714.
32. Perkins, S. L., and C. C. Austin. 2009. Four new species of *Plasmodium* from New Guinea lizards: integrating morphology and molecules. *Journal of Parasitology* 95:424-433.
31. Perkins, S. L., A. S. Kerwin, and A. D. Rothschild. 2009. Patterns of infection of the lizard malaria parasite, *Plasmodium floridense*, in invasive brown anoles (*Anolis sagrei*) in southwestern Florida. *Parasitology Research* 104:1191-1196.
30. Beadell, J. S., R. Covas, C. Gebhard, F. Ishtiaq, M. Melo, B.K. Schmidt, S. L. Perkins, G. R. Graves, R.C. Fleischer. 2009. Host associations and evolutionary relationships of avian blood parasites from West Africa. *International Journal for Parasitology* 39:257-266.
29. Piaggio, A. J., M. Neubaum, H. Yueh, C. Ritland, J. Johnston, and S. L. Perkins. 2009. Development of 10 polymorphic microsatellite loci isolated from the mountain beaver, *Aplodontia rufa rufa* (Rafinesque). *Molecular Ecology Resources* 9:323-325.
28. Piaggio A. J., K. E. G. Miller, M. Matocq, and S. L. Perkins. 2009. Eight polymorphic microsatellite loci developed and characterized from Townsend's big-eared bat, *Corynorhinus townsendii*. *Molecular Ecology Resources* 9:258-260.
27. Perkins, S. L. 2008. Molecular systematics of the three mitochondrial protein-coding genes of malaria parasites: Corroborative and new evidence for the origins of human malaria. *Mitochondrial DNA* 19:471-478.
26. Baillie, G. J., S. O. Kolokotronis, E. Waltari, J. G. Maffei, L. D. Kramer, and S. L. Perkins. 2008. Phylogenetic and evolutionary analyses of St. Louis encephalitis virus genomes. *Molecular Phylogenetics and Evolution* 47:717- 728.
25. Davalos, L. M., and S. L. Perkins. 2008. Saturation and base composition bias explain phylogenomic conflict in Plasmodium. *Genomics* 91:433-442.
24. E. S. Martinsen, S. L. Perkins, and J. J. Schall. 2008. A three-genome phylogeny of malaria parasites. *Molecular Phylogenetics and Evolution* 47:261-273.
23. Piaggio, A. J., J. J. Johnston, and S. L. Perkins. 2008. Development of polymorphic microsatellite loci for the common vampire bat, *Desmodus rotundus* (Chiroptera: Hylostomidae). *Molecular Ecology Resources* 8:440- 442.
22. Olival, K. J., E. O. Stiner, and S. L. Perkins. 2007. Detection of *Hepaticystis* sp. in Southeast Asian flying foxes (Pteropodidae) using microscopic and molecular methods. *Journal of Parasitology* 93:1538-1540.
21. Perkins, S. L., A. Rothschild, and E. Waltari. 2007. Infections of the malaria parasite, *Plasmodium floridense*, in the invasive anole, *Anolis sagrei*, in Florida. *Journal of Herpetology* 41: 750-754.
20. Burke, R. L., S. R. Goldberg, C. R. Bursey, S. L. Perkins, and P.T. Andreadis. 2007. Depauperate parasite fauna in introduced populations of *Podarcis* (Squamata: Lacertidae) lizards in North America. *Journal of Herpetology* 41:755-757.

19. Waltari, E., R. J. Hijmans, A. Townsend Peterson, A. S. Nyári, S. L. Perkins, and R. P. Guralnick. 2007. Locating Pleistocene refugia: comparing phylogeographic and ecological niche model predictions. *PLoS ONE* 2:e563.
18. Perkins, S. L., I. N. Sarkar, and R. Carter. 2007. The phylogeny of rodent malaria parasites: simultaneous analysis across three genomes. *Infection, Genetics, and Evolution* 7:74-83.
17. Austin, C. C., and S. L. Perkins. 2006. Parasites in a biodiversity hotspot: a survey of hematozoa and a molecular phylogenetic analysis of *Plasmodium* in New Guinea skinks. *Journal of Parasitology* 92:770-777.
16. Charleston, M. A., and S. L. Perkins. 2005. Traversing the tangle: algorithms and applications for cophylogeny studies. *Journal of Biomedical Informatics* 39:62-71.
15. Perkins, S. L., R. B. Budinoff, and M. E. Siddall. 2005. New gamma-proteobacteria associated with blood-feeding leeches and a broad phylogenetic analysis of leech endosymbionts. *Applied and Environmental Microbiology* 71:5219-5224.
14. Piaggio, A. J., and S. L. Perkins. 2005. Molecular phylogeny of North American big-eared bats (*Vespertilionidae: Corynorhinus*): inter- and intraspecific relationships inferred from mitochondrial and nuclear DNA sequences. *Molecular Phylogenetics and Evolution* 37:762-765.
13. Guralnick, R. P., E. Hall, and S. L. Perkins. 2004. A comparative approach to understanding causes and consequences of mollusc-digenean size relationships: A case study with allocreadiid trematodes and *Cyclocahyx* clams. *Journal of Parasitology* 90:1253-1262
12. Siddall, M. E., S. L. Perkins, and S. S. Desser. 2004. Leech mycetome symbionts are a new lineage of alpha -proteobacteria related to the Rhizobiaceae. *Molecular Phylogenetics and Evolution* 30:178-186.
11. Siddall, M. E., and S. L. Perkins. 2003. Brooks Parsimony Analysis: a valiant failure. *Cladistics* 19:554-564.
10. Charleston, M. A., and S. L. Perkins. 2003. Lizards, malaria, and jungles in the Caribbean. In: *Tangled Trees: Phylogeny, Cospeciation and Coevolution*. Page, R. D. M. (Ed.) Chicago: University of Chicago.
9. Perkins, S. L., and J. J. Schall. 2002. A molecular phylogeny of malaria parasites recovered from cytochrome b gene sequences. *Journal of Parasitology* 88:972-978.
8. Perkins, S. L., and A. K. Keller. 2001. Phylogeny of nuclear small subunit rRNA genes of hemogregarines amplified with specific primers. *Journal of Parasitology* 87:870-876.
7. Perkins, S. L. 2001. Phylogeography of Caribbean lizard malaria: tracing the history of vector-borne parasites. *Journal of Evolutionary Biology* 14:34-45.
6. Perkins, S. L. 2000. Species concepts and malaria parasites: detecting a cryptic species of *Plasmodium*. *Proceedings of the Royal Society of London B* 267:2345-2350.

5. Schall, J. J., A. R. Pearson, and S. L. Perkins. 2000. Prevalence of malaria parasites (*Plasmodium floridense* and *P. azurophilum*) infecting a Puerto Rican lizard (*Anolis gundlachi*): a nine-year study. *Journal of Parasitology* 86:511-515.
4. Perkins, S. L., and J. M. Martin. 1999. Conserved PCR primers fail in diagnosis of parasitic infection. *Journal of Parasitology* 85:982-984.
3. Perkins, S. L., S. M. Osgood, and J. J. Schall. 1998. Use of PCR for detection of subpatent infections of lizard malaria: implications for epizootiology. *Molecular Ecology* 7:1589-1590.
2. Hepel, M., Z. Xingmin, R. Stephenson, and S L. Perkins. 1997. Use of electrochemical quartz crystal microbalance technique to track electrochemically assisted removal of heavy metal from aqueous solutions by cation-exchange composite polypyrrole-modified electrodes. *Microchemical Journal* 56:79-92.
1. Gill, D. G., L. Chao, S. L. Perkins, and J. B. Wolf. 1995. Genetic mosaicism in plants and clonal animals. *Annual Review of Ecology and Systematics* 26:423-444.

Book Reviews

Perkins, S. L. 2016. Living in a microbial world. Review of: *I Contain Multitudes: The Microbes Within Us and a Grand View of Life* by Ed Yong. *Science* 353:450.

Perkins, S. L. 2011. Book Review: *Beyond Cladistics: The Branching of a Paradigm*. *Systematic Biology* 60:895-897.

PRESENTATIONS

Invited Research Talks (last 5 years):

1. Stony Brook University, December 10, 2018.
2. University of Georgia, September 11, 2018.
3. Lund University, April 5, 2018.
4. SUNY Oneonta, March 23, 2018.
5. Queensborough Community College, May 3, 2017.
6. Oklahoma State University, April 28, 2017.
7. Food and Drug Administration, March 29, 2017.
8. Hunter College, CUNY, March 20, 2017.
9. Rutgers University, New Brunswick campus, March 2, 2017.
10. University of Kentucky, March 31, 2016.
11. Yale University, April 22, 2015.
12. University of Kansas, February 3, 2015.
13. Ohio State University, October 23, 2014.
14. Bucknell University, January 23, 2014.

Recent Presentations at National and International Meetings:

- Phylogenomics of Haemosporidians: Looking Forward. Fourth International Conference on Malaria and Related Haemosporidian Parasites of Wildlife. Beijing, China, November 2018.
- Parasites are Particularly Problematic. TDWG Meeting, Dunedin, New Zealand. (invited symposium talk). September 2018.
- Parasitology: Diversity and Inclusion for the Future. Presidential Address. American Society of Parasitologists Annual Meeting. Cancun, Mexico. June 2018.
- Collecting in the Cabinets (and Freezers): Museum Parasitology and Microbiome Studies. NSF Collections-Based Postdoctoral Research Fellows in Biology Symposium (invited symposium talk), Harvard University, 2017.
- Hemoglobin, Hosts, and Hotspots: Comparative Genomics and Systematics of Haemosporidian Parasites” (invited keynote speaker), Host-Parasite Interaction Meeting, Banff Professional Center, September 22, 2017

MENTORSHIP

Postdoctoral Fellows

1. Janus Borner – 2018 – present.
2. Oscar Pineda - 2010-2011. Currently Nobelist Mentor and Educator, New York Academy of Sciences.
3. Kevin Olival - 2008-2009. Currently Vice President for Research, EcoHealth Alliance, New York, NY.
4. Eric Waltari - 2006-2009. Currently Scientist, Antibody Discovery, Chan-Zuckerberg BioHub, San Francisco, CA.
5. Greg Baillie - 2005-2007. Currently Senior Core Bioinformatics Officer, Institute for Molecular Biosciences, University of Queensland, Brisbane, Australia.
6. Liliana Davalos - 2005-2006. Currently Associate Professor, Department of Ecology and Evolution, SUNY at Stony Brook, Stony Brook, NY.

Graduate Students - Primary Advisor

1. Rachael Joakim (Ph.D., CUNY Graduate Center) – 2016-present.
2. Melissa Ingala (Ph.D., RGGGS) - 2016 - present.
3. Rachael Joakim (Ph.D., CUNY) - 2016-present.
4. Kelly Speer (Ph.D., RGGGS) - 2015-present.
5. Spencer Galen (Ph.D., RGGGS) - 2014-2018. Currently NSF-funded Postdoctoral Fellow, Academy of Natural Sciences at Drexel University.
6. Miguel Pinto (Ph.D., CUNY) - 2009-2014. Currently Research Faculty, Escuela Politecnica Nacional.
7. Bryan Falk (Ph.D., RGGGS) - 2008-2013. Currently Invasive Species Biologist, Everglades National Park, Homestead, FL.
8. Diana Belanger (Ph.D., CUNY) - 2005-2010. Currently Associate Professor of Biology, Quincy College, Quincy, MA.
9. Matthew Bealor (Ph.D., U Colorado) - 2001-2007. Currently Instructor of Biology, Rowan University.

10. Antoinette Piaggio (Ph.D., U Colorado) - 2000-2005. Currently Research Molecular Biologist, Wildlife Genetics, USDA-APHIS.

Ph.D. Students - Committee Member, listed if current or participated in examinations and/or defenses

Richard Gilder Graduate School at AMNH: (12) Johannes Newmann (2018-present); (11) Rachel Welt (2014-2018); (10) Adolfo Lara (2013-2018); (9) Michael Tessler (2013-2017); (8) Amber Paasch (2013-2017); (7) Lauren Oliver (2012-2016); (6) Jonathan Foox (2012-2016); (5) Stephanie Loria (2011-2015); (4) Phil Barden (2011-2015); (3) Jennifer Crick (2012-2014); (2) Antonia Florio (2008-2013); (1) Sebastian Kvist (2008-2012).

Partner Programs: (5) Marc Tollis (CUNY - 2009-2013); (4) Lauren Esposito (CUNY - 2005-2011); (3) Alejandro Ociguera (CUNY - 2005-2010); (2) Anna Phillips (CUNY - 2005-2010); (1) Elizabeth Borda (CUNY - 2002-2007).

Other Universities: (10) Dawn Fariello (Fordham University – 2014 – present); (9) Elin Videvall (Lund University – invited opponent, 2018); (8) Beatriz Tomé (University of Porto); (7) Fatima Jorge (University of Porto, invited defense jury member); (6) Gena Sbeglia (SUNY Stony Brook 2015-2017); (5) Trent Santonastaso (U New Orleans - 2013-present); (4) S. Elizabeth Racz (U Nebraska - 2012-2017); (3) Juliane Schaer (Humboldt University - 2008-2014); (2) Jennifer Winther (U Colorado - 2002-2007); (1) Kathleen Sims (U Colorado - 2001-2006).

Undergraduate Students (AMNH only)

1. Renato Nunes (REU student, Rutgers University, Newark) - 2016.
2. Jared Frank (Undergraduate intern, University of Michigan) - 2014.
3. Saymon Akther (REU student, CUNY) - 2013.
4. Emmanuel Asare (REU student, Clarkson University) - 2008.
5. Anna Rothschild (REU student, Brown University) -2006.
6. Cecilia Leatham (Undergraduate intern, Hunter College, CUNY) - 2006.
7. Jennifer Hughes (REU student, Humboldt State University) - 2005-2006.

Other Professional Activities:

- Founder, AMNH chapter of the Association for Women in Science, Women in Natural Sciences (WINS).
- Advisory Council Member, AMNH Center for Biodiversity and Conservation. 2011-present.
- Council Member, Society for Systematic Biology, 2012-2016, 2019-present.
- Curator of the Early Career Reviewer Database, which allows graduate students, postdocs, junior faculty and other early career biologists in the fields of ecology, evolution, systematics and behavior identify themselves and allows editors at journals covering these fields to find them. (<https://sites.google.com/view/ecrdatabase/home>). Founded 2018.
- Invited speaker, NYC March for Science, 2018.
- Co-curator, Secret World Inside You, exhibit on human microbiomes, November 2015 - August 2016.
- Co-designer, “Gutsy” educational card game. 2015.

- Editorial Board, Mitochondrial DNA 2006-2010.
- Featured on “Women of Marvel” podcast (http://marvel.com/news/comics/25729/the_secret_world_inside_you_with_the_women_of_marvel)
- Founder and co-author of “Parasite of the Day,” (<http://dailyparasite.blogspot.com/>), a blog that highlighted one species of parasite every day for the year 2010, in celebration of the UN’s International Year of Biodiversity. During that time, the blog received over 160,000 page loads and had an average of 500 visitors per day. Though no longer a daily feature, the blog continues to feature stories about parasites.