

Thomas R. Gillespie

Program in Ecology, Evolution, and Conservation Biology
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Academic Positions

- 2005 – Present Director, Earth & Society Initiative on Disease Emergence & Ecosystem Health, University of Illinois, Urbana-Champaign.
- 2005 – Present Assistant Professor, Program in Ecology & Evolutionary Biology, University of Illinois Urbana-Champaign.
- 2006 – Present Assistant Professor, Division of Epidemiology, Department of Pathobiology, University of Illinois, Urbana-Champaign.
- 2006 – Present Assistant Professor, Department of Anthropology, University of Illinois Urbana-Champaign.
- 2006 – Present Core Faculty, Center for African Studies, University of Illinois Urbana-Champaign.

Education

- 2004 – 2005 Post-Doctoral Fellow, Pathobiology, University of Illinois, Urbana.
- 2000 – 2004 PhD, Zoology, University of Florida.
- 1997 – 2000 MSc, Zoology, University of Florida.
- 1992 – 1996 BSc, Ecology, Ethology, and Evolution, University of Illinois, Urbana.

Grants and Fellowships

- 2008 – 2011 Morris Animal Foundation, “Anthropogenic Disturbance and Primate-Pathogen Transmission” (\$138,000).
- 2007 Lincoln Park Zoo, “Health Monitoring of Chimpanzee Populations of Gombe National Park, Tanzania” (\$16,900).
- 2006 Earth and Society Initiative Grant, University of Illinois (\$25,000).
- 2004 – 2006 Morris Animal Foundation, “Anthropogenic Disturbance and Primate-Pathogen Transmission” (\$135,000).
- 2005 European Union Center, University of Illinois (\$1,500).
- 2005 Earth and Society Initiative Grant, University of Illinois (\$50,000).
- 2001 – 2004 Environmental Protection Agency (EPA), Science to Achieve Results [EPA STAR] Dissertation Fellowship (\$96,000).
- 2004 International Curriculum Grant, University of Florida (\$5,000).
- 2004 Society for Conservation Biology Travel Grant (\$300).
- 2001 Fulbright Graduate Fellowship (Declined).

2001	David Niddrie Research Grant, Center for African Studies, U. of Florida (\$1,000).
1997 – 2000	U. of Florida College of Liberal Arts & Sciences Fellowship (\$18,000).
2000	Ford Foundation, African Conservation Program (\$3,000).
1999	NASA, Division of Earth Sciences Conservation Grant (\$500).
1998 & 1999	National Science Foundation Graduate Fellowship, Honorable Mention.
1998	Sigma Xi Research Grant (\$750).
1997 – 2004	Travel awards, University of Florida (6, total \$2,450).
1996	Earth Foundation, Environmental Education for Amazonian Peru (\$2,500).
1992	Illinois State Senate General Assembly Merit Scholarship (\$5,500).
1992	Northern Illinois Academic-Industrial Consortium Fellowship (\$5,000).

Appointments and Service:

2004 – Present	Member, IUCN Veterinary Specialist Group and UNEP Great Ape Survival Project working groups on best practices in disease monitoring and prevention in the great apes.
2000 – Present	Biological Consultant, British Broadcasting Corporation Natural History Unit (Contributed to Life of Mammals and Wild Africa Series).
2007 – Present	Steering Committee Member, Center for Zoonoses Research, University of Illinois.
2007 – Present	Member, Graduate Faculty, Purdue University, West Lafayette, Indiana.
2005 – Present	Steering Committee Member, Great Lakes University Program and EnviroVet Baltic.
2000 – Present	Reviewer, African Journal of Ecology, American Journal of Physical Anthropology, American Journal of Primatology, Behavioral Ecology & Sociobiology, Biotropica, Conservation Biology, Folia Primatologica, International Journal of Primatology, Journal of Parasitology, Journal of Tropical Ecology, L.S.B. Leakey Foundation, National Geographic, Primate Conservation Inc., Trends in Parasitology, U.S. Environmental Protection Agency.
2001 – 2004	National Steering Committee, Human Rights and Environment Program, Amnesty International.
1999 – 2004	Advisor/Supervisor, Undergraduate Research Mentoring Program, University of Florida (19 Students), 1999 – 2004.
2002	Project manager, University of Oregon Primate Ecology and Conservation Research Program, Kibale National Park, Uganda. Supervisor: Joanna E. Lambert.
2001	Graduate Committee, Department of Zoology, University of Florida.
1999 – 2001	National Resource Staff and Lead Organizer, Amnesty International/Sierra Club Joint Program for Human Rights and Environment.

2000	Biological Consultant, Infinity Software Development, Inc.
1998 – 2000	Seminar Committee, Department of Zoology, University of Florida.
1996 – 1997	Project Manager, Environmental Education Program of Amazonian Peru (Worked with students from Universidad Nacional de la Amazonia Peruana to develop and establish a semi-autonomous environmental education program for school system of Iquitos, Peru).
1994 – 1996	Co-Coordinator, University of Illinois Environmental Education Program (Provided more than 50 presentations at Illinois schools [grades 2-12] on geography, ecology, biodiversity, conservation, and sustainable use of tropical rainforests and trained 16 new presenters).
1994	Staff archaeologist, Public Service Archaeology Project, Sites throughout Illinois, Missouri, and Iowa (I, II, and III phase field archaeology and lab analysis conducted).

Teaching Experience:

2007	Instructor, “Infectious Diseases in Primates: Ecology, Evolution, and Conservation,” Anthropology Graduate Seminar, University of Illinois.
2006 – Present	Lecturer, “Evolution and Human Disease,” Undergraduate Science Requirement, University of Illinois.
2006 – Present	Lecturer and Lab Coordinator, “Veterinary Parasitology,” Veterinary Core Curriculum, University of Illinois
2004 – Present	Lecturer, “Conservation Medicine and Ecosystem Health,” University of Illinois College of Veterinary Medicine, Loyola Medical School, and Brookfield Zoo Department of Conservation Biology.
2004	Instructor, “Field Veterinary Medicine,” University of Florida
1998 – 2005	Guest Lecturer, Numerous Courses, Departments of Zoology, Veterinary Pathobiology, Anthropology, and Political Science, University of Florida and University of Illinois
2001	Teaching assistant. Vertebrate Zoology, University of Florida. Supervisors: Colin A. Chapman and Lauren J. Chapman
1999 & 2001	Teaching assistant. Primate Ecology, Estacion Biologica Bocas Del Toro, Panama. Supervisors: Michelle Sauther and François Larose
1999- 2000	Laboratory Section Instructor. Evolution, Ecology, and Behavior, University of Florida. Supervisor: Kent A. Vliet
1998-1999	Teaching assistant. General Ecology, U. of Florida. Supervisors: Carmine A. Lanciani, Colin A. Chapman, and Lauren J. Chapman
1997 - 1998	Teaching assistant. Primate Behavior and Ecology, La Suerte Biological Field Station, Costa Rica. Supervisor: Joanna E. Lambert
1997 & 1999	Laboratory Section Instructor, Integrated Principles of Biology, U. of Florida. Supervisor: Kent A. Vliet

Publications

- In Press **Gillespie, T.R.** and C.A. Chapman. Forest fragmentation, the decline of an endangered primate, and changes in host-parasite interactions relative to an unfragmented forest. *American Journal of Primatology*
- Kowaleswski, M., and **Gillespie, T.R.** Ecological & anthropogenic influences on patterns of parasitism in free-ranging primates: a meta-analysis of the genus *Alouatta*. P. Garber, A. Estrada, J.C. Bicca-Marques, E. Heymann, and K. Strier (eds.). South American Primates: Testing New Theories in the Study of Primate Behavior, Ecology, and Conservation. Springer Press.
- Gillespie, T.R.** 98% Human, 91% Extinct: A Review of the World Atlas of Great Apes and Their Conservation. *Conservation Biology*.
- Goldberg, T.L., **T.R. Gillespie**, and I.B. Rwego. Health and disease in the people, primates, and domestic animals of Kibale National Park: Implications for conservation. R. Wrangham (ed.). Kibale Forest: A Model For Exploring the Relationship Between Long Term Research and Conservation. Cambridge University Press.
- 2007 Salzer, J.S., Rwego, I.B., Goldberg, T.L., Kuhlenschmidt, M.S., and **Gillespie, T.R.*** *Giardia* sp. and *Cryptosporidium* sp. infections in primates in fragmented and undisturbed forest in western Uganda. *Journal of Parasitology*. 93(2): 439-440.
- Goldberg TL, **Gillespie TR**, et al. (2007) Patterns of gastrointestinal bacterial exchange between chimpanzees and humans involved in research and tourism in western Uganda. *Biological Conservation*. 135: 527-533.
- Chapman, C.A., L. Naughton-Treves, M.J. Lawes, M.D. Wasserman, and **T.R. Gillespie**. The conservation value of forest fragments: explanations for population decline of the colobus of western Uganda. *International Journal of Primatology*. 28(3): 513-528.
- 2006 **Gillespie, T.R.** and C.A. Chapman. Forest fragment attributes predict parasite infection dynamics in primate metapopulations. *Conservation Biology*. 20:441–448.
- Gillespie, T.R.** Non-invasive assessment of gastro-intestinal parasite infections in free-ranging primates. *International Journal of Primatology*. 27: 1129-1143.
- Goldberg, T.L., **Gillespie, T.R.**, Singer, R.S. Optimization of analytic parameters for inferring relationships among *Escherichia coli* isolates from repetitive-element PCR by maximizing correspondence with multilocus sequence typing data. *Applied and Environmental Microbiology*. 72 (9): 6049-6052.
- Chapman, C.A., M.D. Wasserman, **T.R. Gillespie**, M.L. Speirs, M.J. Lawes, and T.E. Ziegler. Do nutrition, parasitism, and stress have synergistic effects on red colobus populations living in forest fragments? *American Journal of Physical Anthropology*. 131: 525-534.
- Goldberg, T.L., **T.R. Gillespie**, I.B. Rwego, and C. Kaganzi. Killing of an owl (*Galucidium perlatum*) by a red colobus monkey (*Ptilocolobus tephrosceles*). *American Journal of Primatology*. 68: 1007-1011.
- Chapman, C.A., **T.R. Gillespie**, M. Speirs, T. Holland, and K. Austad. Life on the edge: A comparison of primate gastrointestinal parasites from forest edge and interior groups. *American Journal of Primatology*. 68:397–409.
- Chapman, C.A., M.D. Wasserman, and **T.R. Gillespie**. Behavioural patterns of colobus in logged and unlogged forests: The conservation value of harvested forests. V. Reynolds, H. Notman, and N. Newton-Fisher (eds.). Primates of Uganda.
- 2005 **Gillespie, T.R.**, C.A. Chapman, and E.C. Greiner. Effects of logging on gastrointestinal parasite infections and infection risk in African primate populations. *Journal of Applied Ecology* 42:699-707.
- Gillespie, T.R.**, E.C. Greiner, and C.A. Chapman. Gastrointestinal parasites of the colobus monkeys of Uganda. *Journal of Parasitology* 91:569-573.

- Chapman, C.A., **T.R. Gillespie**, and T.L. Goldberg. Primates and the ecology of their infectious diseases: how will anthropogenic change affect host-parasite interactions? *Evolutionary Anthropology* 14:134–144.
- Chapman, C.A., **T.R. Gillespie**, and M. Speirs. Parasite prevalence and richness in sympatric colobines: effects of host density. *American Journal of Primatology* 67:259-266.
- 2004 **Gillespie, T.R.**, E.C. Greiner, and C.A. Chapman. Gastrointestinal parasites of the guenons of western Uganda. *Journal of Parasitology* 90: 1356-1360.
- 2003 Chapman, C.A., M.J. Lawes, L. Naughton-Treves, and **T.R. Gillespie**. Primate survival in community-owned forest fragments: Are metapopulation models useful amidst intensive use? In: L.K. Marsh (ed.) *Primates in Fragments: Ecology and Conservation*. Kluwer Academic/Plenum Publishers, New York.
- 2002 Chapman, CA, L.J. Chapman, and **T.R. Gillespie**. Scale issues in the study of primate foraging: red colobus of Kibale National Park. *American Journal of Physical Anthropology* 117: 349-363.
- 2001 **Gillespie, T.R.**, and Chapman, C.A. 2001. Determinants of group size in the red colobus monkey (*Procolobus badius*): An evaluation of the generality of the ecological-constraints model. *Behavioral Ecology and Sociobiology* 50:329-338.
- 2000 Chapman, C.A., S.R. Balcomb, **T.R. Gillespie**, J.P. Skorupa, and T.T. Struhsaker. Long-term effects of logging on primates in Kibale National Park, Uganda: A 28 year comparison. *Conservation Biology* 14:207-217.
- 1994 Hodges, B.L., M.J. Gagnon, **T.R. Gillespie**, J.R. Breneisen, D.F. O’Leary, S. Hara, and R.M. Quock. Antagonism of nitrous oxide antinociception in the rat hot plate test by site-specific n- and e- opioid receptor blockade. *Journal of Pharmacology and Experimental Therapeutics* 269: 596-600.

Professional Presentations:

Invited Addresses

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| 2007 | November | Poxviruses Symposium, 5 th International Conference on Emerging Zoonoses, Limassol, Cyprus. |
| 2007 | November | Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany. |
| 2007 | November | Primate Disease Workshop, European Union Primate Center, Gottengen, Germany. |
| 2007 | October | Defense Sciences Research Council Workshop, University of California, Santa Barbara. |
| 2007 | July | Biodiversity and Health Symposium, Society for Conservation Biology 21 st Annual Meeting. Port Elizabeth, South Africa. |
| 2007 | June | Student-Invited Speaker, 1 st North American Parasitology Congress. Merida, Mexico. |
| 2007 | February | Integrating Environment and Human Health: 7 th National Conference on Science, Policy and the Environment, Washington, DC. |
| 2006 | November | Baltic University Programme / Great Lakes Program Curriculum in Sustainable Agriculture and Ecosystem Health Planning Meeting, Tallinn, Estonia. |
| 2006 | February | Department of Anthropology, Washington University, St. Louis |

2005	November	Department of Anthropology, University of Illinois
2005	November	Department of Pathobiology, University of Illinois
2005	September	Baltic University Programme / Great Lakes Program Curriculum in Sustainable Agriculture and Ecosystem Health Planning Meeting, Kaunas, Lithuania.
2005	August	Department of Veterinary Pathobiology, University of Illinois.
2005	April	Department of Biology, University of Pennsylvania.
2004	September	Program in Ecology & Evolutionary Biology, U. of Illinois.
2004	May	Max Planck Institute, Leipzig, Germany.
2003	April	Dept. of Pathobiology, U. of Florida College of Vet. Medicine.
2003	March	Department of Zoology, University of Florida.
2002	July	Association for Tropical Biology Field Course, Makerere University Biological Field Station, Uganda.
2002	February	Department of Zoology, Makerere University, Uganda.
2002	January	Dept. of Pathobiology, U. of Florida College of Veterinary Medicine.
2000	September	Center for African Studies, University of Florida.
2000	June	Smithsonian Field Course in Tropical Conservation, Makerere University Biological Field Station, Uganda.
2000	April	Zoology Graduate Research Symposium, University of Florida.
2000	March	Center for Tropical Conservation and Development, U. of Florida.
1999	March	Department of Zoology, University of Florida.
1998	October	Center for Tropical Conservation and Development, U. of Florida.
<u>Scientific Meetings</u>		
2006	October	EcoHealth One, University of Wisconsin, Madison.
2006	October	Midwest Primate Interest Group 3 rd Annual Meeting, University of Illinois (Symposium Chair).
2006	September	US EPA Interdisciplinary Forum and Workshop on Biodiversity and Human Health, Smithsonian Institution, Washington, DC.
2006	June	International Primatological Society 21 st Congress, Entebbe, Uganda (Symposium Chair).

2004	October	Midwest Primate Interest Group 1 st Annual Meeting, University of Illinois (Symposium Chair).
2004	August	International Primatological Society 20 th Congress, Torino, Italy.
2004	July	Society for Conservation Biology 18 th Annual Meeting, Columbia University, New York (Student Paper Competition Finalist).
2003	August	52 nd Annual Wildlife Disease Association Conference, Saskatoon, Canada.
2003	July	26 th Annual Meeting of the American Society of Primatologists, Calgary, Canada.
2003	May	41 st International Symposium on Diseases of Zoo and Wild Animals, Rome, Italy.
2001	February	17 th Annual Southern Conference on Animal Parasites, Gainesville, Florida.
2000	April	Joint Meeting of the British Ecological Society and the Ecological Society of America, Orlando.
1999	June	Society for Conservation Biology 13 th Annual Meeting, University of Maryland (Student Paper Competition Honorable Mention).
1999	August	American Society of Primatologists 22 nd Annual Meeting, New Orleans.
1992	August	Northern Illinois Regional Academic-Industrial Consortium Conference, University of Illinois at Chicago School of Medicine.