

# CURRICULUM VITAE

## TOM A. LANGEN

Depts. of Biology & Psychology, Box 5805, Clarkson University, Potsdam NY 13699-5805

Phone: 315 268 7933

Fax: 315 268 7118

Email: [tlangen@clarkson.edu](mailto:tlangen@clarkson.edu)

Web : [www.clarkson.edu/~tlangen](http://www.clarkson.edu/~tlangen)

### APPOINTMENTS

---

Associate Professor, Dept. of Biology & Dept. of Psychology, Clarkson University	2006 - present
Fulbright Scholar & Visiting Professor, International Institute of Wildlife Conservation & Management, National Autonomous University of Costa Rica	2007-2008
Assistant Professor, Dept. of Biology & Dept. of Psychology, Clarkson University	2000 - 2006
Visiting Assistant Professor, Dept. of Biology, Clarkson University	1999 - 2000
Lecturer, Dept. of Organismic Biology, University of California, Los Angeles	1997 - 1998
Lecturer, Dept. of Biology, University of California, San Diego	1997 - 1998
Lecturer, University of California Education Abroad Program	1997

### EDUCATION

---

Purdue University	Biology (Honors)	B.Sc., 1984
University of California, San Diego	Biology	Ph.D., 1994
University of California, Los Angeles	Biology	Postdoc 1994-1999

### AWARDS & RECOGNITIONS

---

Fulbright Scholar, Costa Rica	2007-2008
Presidential Award, Society of American Naturalists for the best paper of the previous year in the journal <i>American Naturalist</i> , as judged by the Society's President	2005
Clarkson University Student Association Outstanding Teacher Award	2003
National Institutes of Health National Research Service Award	1994-1996

### PROFESSIONAL CERTIFICATIONS

---

Certified Senior Ecologist, Ecological Society of America	2005 – Present
Master Bird Bander, Biological Resource Division, United States Geological Survey	1995 - Present

## GRANTS & FELLOWSHIPS

---

- New York State Dept. of Transportation “Route 30 Turtle Barrier Monitoring”** (PI,\$9,800) 2010-2011
- St Lawrence River Research & Education Fund “Breeding Golden-winged Warbler Use of Electrical Transmission Line Corridors in the St. Lawrence Valley”** (PI,\$5,175) 2010-2011
- St. Lawrence County STEM Partnership Grant** (co-PI, PI: P. Turner, other co-PIs: S. Powers, D. Wick, K. Fowler, J. Carroll; \$311,1265) 2007-2009
- N.S.F. U.B.M. Program, “ITiMBReaC: Interdisciplinary Training in Mathematical & Biological Research”** (co-PI, PI: J Schulte Grimberg;, other co-PIs: S. Mondal, J. Skufca; Award number DBI-0926568, \$228,892) 2009 - 2011
- Northern New York Audubon Cullman Grant “Golden-winged Warbler Use of Electrical Transmission Line Corridors in the St. Lawrence Valley”** (PI, \$2,020) 2009
- St Lawrence River Research & Education Fund “Proposed Wildlife Barrier for Reptiles & Amphibians along New York State Highway 68 at Upper and Lower Lakes Wildlife Management Area”** (PI, co-PIs: K. Janoyan, G. Johnson (SUNY Potsdam), Partners: St. Lawrence County (New York) Board of Legislatures, New York Department of Transportation, New York Department of Environmental Conservation; \$10,020) 2008-2009
- US Fish & Wildlife Service / New York State Department of Environmental Conservation State Wildlife Grants Program “Value of Wetland Restoration Incentive Programs on Privately Owned Land for Species of Greatest Conservation Need”** (PI, co-PI: G. Johnson (SUNY Potsdam); Partners: US Fish & Wildlife Service, USDA National Resource Conservation Service, \$148,433) 2008 - 2010
- US Fish & Wildlife Service / New York State Department of Environmental Conservation State Wildlife Grants Program “Distribution of Wetland- Dependent Amphibians and Reptiles of Greatest Conservation Need in Northern New York - An Application of the New York State Herp Atlas”** (co-PI, PI: G. Johnson (SUNY Potsdam), other co-PIs: A.R. Breisch (NYSDEC), M.B. Kolosvary (NYS Biodiversity Institute); \$118,494) 2008 - 2010
- US Environmental Protection Agency / National Fish & Wildlife Foundation 5 Star Partnership Program, “Proposed Wildlife Barrier for Reptiles & Amphibians along New York State Highway 68 at Upper and Lower Lakes Wildlife Management Area”** (PI, co-PIs: K. Janoyan, G. Johnson (SUNY Potsdam), Partners: St. Lawrence County (New York) Board of Legislatures, New York Department of Transportation, New York Department of Environmental Conservation; \$11,701) 2008-2009
- New York State Department of Education Math and Science Partnership Program** (co-PI, PI: P. Turner, other co-PIs: S. Powers, D. Wick, K. Fowler, S. Minor, R. Partch, J. Carroll; \$328,476.00) 2007-2009
- Fulbright Scholar Program, “Impacts of Public Roads on Costa Rican National Parks; Animal Behavior with Applications to Conservation Biology”** (PI, Full semester salary & expenses to teach & conduct research at the *International Institute of Wildlife Conservation & Management, National Autonomous University of Costa Rica*). 2007-2008
- National Geographic Society Committee for Research & Exploration, “Impact of public roads on Costa Rican National Parks”** (PI, co-PI: J. Saenz (National University of Costa Rica), G. Johnson (SUNY Potsdam);

- \$12,100) 2007-2008
- Center for Regional Research & Community Education Walker Fellowship, “Evaluation of the Environmental & Social Values of Government Wetland Reconstruction & Preservation Programs on Private Landholdings in the St. Lawrence Valley of New York State”** (PI, co-PI: R. Welsh ; \$3145) 2007-2008
- N.S.F. FSML Program, “FSML: Planning Grant for the Great Rivers Center Field Station”** (co-PI, PI: M. Twiss; Award number DBI-0628054, \$13,264) 2007-2008
- Clarkson University Center for the Environmental Seed Grant “Values of Federal Government Wetland Reconstruction & Preservation Programs on Private Landholdings in the St. Lawrence Valley of New York State”** (PI, co-PI: R. Welsh ; \$1900) 2007
- New York State Biodiversity Research Institute “Predicting Hotspots of Herpetofauna Mortality on New York Highways: Validation of a GIS Model”** (PI, co-PI: G. Johnson (SUNY Potsdam); \$12,901) 2006-2007
- N.S.F. R.E.U. Site Program, Environmental Science & Engineering at Clarkson University “Solving complex environmental problems through research in environmental science and engineering”** (co-PI, PI: S. Grimberg; Award number EEC-042789, \$280,000) 2005 - 2007
- US Fish & Wildlife Service / New York State Department of Environmental Conservation State Wildlife Grants Program “Design and testing of prototype barriers and tunnels to reduce the impact of roads on turtle survival and reproductive success.”** (PI, co-PI: A.R. Breisch (NYSDEC), G. Johnson (SUNY Potsdam); MOU AM05405, \$43,539) 2004 - 2007
- New York State Department of Transportation “Winter impacts along Cascade Lakes in the Adirondacks”** (PI, co-PIs: M.R. Twiss, T.C. Young, K. Janoyan, J.C. Stager (Paul Smiths College); C-02-06, \$148,622) 2003 – 2006
- Clarkson University Center for the Environmental Seed Grant “LOLIPOP – Lake Ontario Limnology Practicum Opportunity: Lake Ontario Great Lakes Science Practicum 2003”** (co-PI, PI: M.R. Twiss ; \$1500) 2004
- U.S. Environmental Protection Agency, Great lakes National Program Office “Lake Ontario Great Lakes Science Practicum 2003 on board the R/V Lake Guardian”** (co-PI, PI: M.R. Twiss; other co-PIs G.S. Bullerjahn (Bowling Green State U.), S.W. Wilhelm (U. Tennessee); eight day research cruise ship-time expenses) 2003
- N.S.F. R.E.U. Site Program, Environmental Science & Engineering at Clarkson University “Sustainable management through environmental engineering and science”** (co-PI, PI: S. Grimberg, EEC-0138970. \$275,000) 2002 - 2004
- Clarkson University Center for Environmental Management Seed Grant “Inventory & Remediation Plan for Amphibian & Turtle Mortality on St. Lawrence Valley Roads”** (\$6045) 2001 - 2002
- N.I.H. National Research Service Award** (mentor: RM Gibson, \$46,000) 1994-1996
- N.S.F. Research Grant “Social learning in a cooperatively breeding bird”** (co-PI, PI: S.L. Vehrencamp; IBN 9120789, \$85,600) 1992-1994
- N.I.H. Genetics Training Grant, full graduate support** 1990-1993
- American Ornithological Union Student Research Award** (\$1000) 1991

<b>T.C. Schneirla Comparative Psychology Award</b> (\$500)	1990
<b>Sigma Xi Society Grant</b> (\$550)	1990
<b>Tinker Foundation Grant</b> (\$700)	1989

## PEER-REVIEWED PUBLICATIONS

---

- Langen, T.A.**. 2009. Predictive models of herpetofauna road mortality hotspots in extensive road networks: three approaches and a general procedure for creating hotspot models that are useful for environmental managers. Proceedings of the 2009 International Conference on Ecology and Transportation.
- Berg, E.C., J.M. Eadie, **T.A. Langen**, and A.F. Russell. 2009. Reverse sex-biased philopatry in a cooperative bird: genetic consequences and a social cause. *Molecular Ecology* 18:3486-3499.
- Ellis, J.M.S., **T.A. Langen**, and E.C. Berg. 2009. Signaling for food and sex? Begging by reproductive female white-throated magpie-jays. *Animal Behaviour* 78:615-623.
- Langen, T.A.**, K. Ogden, and L. Schwarting. 2009. Predicting hotspots of herpetofauna road mortality along highway networks. *Journal of Wildlife Management* 73:104-114.
- Grimberg, S.J., **T.A. Langen**, S.E. Powers, L.D. Compeau. 2008. A theme-based seminar on environmental sustainability improves participant satisfaction in an undergraduate summer research program. *Journal of Engineering Education*. 97:95-103.
- Langen T.A.**, A. Machniak, E. Crowe, C. Mangan, D. Marker, N. Liddle, and B. Roden. 2007. Methodologies for surveying herpetofauna mortality on rural highways. *Journal of Wildlife Management* 71:1361-1368.
- Gouvêa S.P., C. Melendez, M.J. Carberry, G.S. Bullerjahn, S.W. Wilhelm, **T.A. Langen**, and M.R. Twiss. 2006. Assessment of phosphorus-microbe interactions in Lake Ontario by multiple techniques. *Journal of Great Lakes Research* 32:455-470.
- Langen T.A.**, and S. Grimberg. 2006. Balanced activities increase student satisfaction in a mentored summer research program. American Society for Engineering Education, Proceedings of the 2006 Annual Conference and Exposition 2006-846.
- Steen D.A., M.J. Aresco, S.G. Beilke, B.W. Compton, C.K. Dodd Jr., H. Forrester, J.W. Gibbons, J. Greene-McLeod, G. Johnson, **T.A. Langen**, M.J. Oldham, D.N. Oxier, R.A. Saumure, F.W. Schueler, J. Sleeman, L.L. Smith, J.K. Tucker, and J.P. Gibbs. 2006. Relative vulnerability of female turtles to road mortality. *Animal Conservation* 9:269-273.
- Langen T.A.**, and R. Welsh. 2006. Effects of a problem-based learning approach on attitude change and science and policy content knowledge. *Conservation Biology* 20:600-608.
- Twiss M.R., **T.A. Langen**, M.G. Giroux, S.M. Johns, N.E. Liddle, A.R. Snyder, D.P. Zeleznock, and J. Wojcik. 2006. Land use influence on water quality in the Saint Regis River, a north-flowing tributary of the St. Lawrence. *Adirondack Journal of Environmental Studies* 13:26-32.
- Langen T.A.**, M.R. Twiss, G.S. Bullerjahn, and S.W. Wilhelm. 2005. Pelagic bird survey on Lake Ontario following Hurricane Isabel, September 2003: Observations and remarks on methodology. *Journal of Great Lakes Research* 31:219-226.
- Twiss M.R., **T.A. Langen**, G.S. Bullerjahn, S.W. Wilhelm, and D.C. Rockwell. 2005. The Lake Ontario Great

- Lakes Science Practicum: A model for training limnology students on how to conduct shipboard research in the Great Lakes. *Journal of Great Lakes Research* 31:236-242.
- Luttbeg B., and **T.A. Langen**. 2004. Comparing alternative models to empirical data: cognitive models of Western Scrub-Jay foraging behavior. *American Naturalist* 163:263-276. <sup>1</sup>
- Langen T.A.** 2004. Cognition: Food Storing. In *Encyclopedia of Animal Behavior, Volume 1* (M. Bekoff, ed.), pp. 290-293. Greenwood Press, Westport CT. <sup>2</sup>
- Langen T.A.** 2004. What is right with 'teaching the controversy'? *Trends in Ecology and Evolution* 19:114-115.
- Curry R.L., A.T. Peterson and **T.A. Langen**. 2002. Western Scrub-Jay (*Aphelocoma californica*). In *The Birds of North America*, No. 712 (A. Poole and F. Gill, Eds.). The Birds of North America, Inc., Philadelphia, PA.
- Langen T.A.** 2000. Prolonged offspring dependence and cooperative breeding in birds. *Behavioral Ecology* 11:367-377.
- Langen T.A.**, F. Triplet and P.N. Nonacs. 2000. The red and the black: Habituation and the dear enemy phenomenon in two Mojave Desert *Pheidole* ants. *Behavioral Ecology and Sociobiology* 48:285-292.
- Langen T.A.** 1999. How western scrub-jays (*Aphelocoma californica*) select a nut: effects of the number of options, variation in nut size, and social competition among foragers. *Animal Cognition* 2:223-233.
- Langen T.A.** and S.L. Vehrencamp. 1999. How white-throated magpie-jay helpers contribute during breeding. *Auk* 116:131-140.
- Langen T.A.** and S.L. Vehrencamp. 1998. Ecological factors affecting group and territory size in the white-throated magpie-jay. *Auk* 115:327-339.
- Langen T.A.** and R.M. Gibson. 1998. Sampling and information acquisition by western scrub-jays, *Aphelocoma californica*. *Animal Behaviour* 55:1245-1254.
- Gibson R.M., and **T.A. Langen**. 1996. How do animals choose their mates? *Trends in Ecology and Evolution* 11:468-470.
- Langen T.A.** 1996. The mating system of the white-throated magpie-jay *Calocitta formosa* and Greenwood's hypothesis for sex-biased dispersal. *Ibis* 138:506-513.
- Langen T.A.** 1996. Social learning of a novel foraging skill by white-throated magpie-jays (*Calocitta formosa*, Corvidae): a field experiment. *Ethology* 102:157-166.
- Langen T.A.** 1996. Skill acquisition and the timing of natal dispersal in the white-throated magpie-jay *Calocitta formosa*. *Animal Behaviour* 51:575-588.
- Upton S.J., **T.A. Langen** and T.F. Wright. 1995. A new species of *Isospora* Schneider, 1881 (Apicomplexa: Eimeriidae) from the white-throated magpie-jay, *Calocitta formosa* (Passeriformes: Corvidae) from Costa Rica. *Systematic Parasitology* 31:195-199.
- Langen T.A.** and K.N. Rabenold. 1994. Dominance and diet selection in juncos. *Behavioral Ecology* 5: 334-338.
- Price, T., and **T. Langen**. 1992. Evolution of correlated characters. *Trends in Ecology and Evolution* 7: 307-310.
- Langen T.A.**, D.T. Bolger and T.J. Case. 1991. Predation on artificial bird nests in chaparral fragments. *Oecologia* 86:395-401.

<sup>1</sup> Presidential Award winner, *Society of American Naturalists for the best paper of 2004 in the journal American Naturalist, as judged by the Society's President.*

<sup>2</sup> *Library Journal Best Reference Source 2004*

## UNPUBLISHED MANUSCRIPTS

---

Prutzman, H., K. Janoyan, J. Osso Jr. , J.C. Stager, M. Twiss, T. Young, and **T.A. Langen**. Impact of chronic heavy deicing salt and sand use on roadside soil and vegetation along a highway pass in the Adirondack Mountains of New York State.

Turnquist, M.A. , and **T.A. Langen**. Demographic impact of road mortality on two freshwater turtles along rural highways.

**Langen T.A.**, K. Gunson, C. Scheiner, J. Boulerice. Road mortality in freshwater turtles: identifying causes of spatial patterns to optimize road planning and mitigation.

## TECHNICAL REPORTS

---

**TA Langen**. 2009. Design and testing of prototype barriers and tunnels to reduce the impact of roads on turtle survival and reproductive success. Final Report, prepared for the New York State Department of Environmental Conservation and the US Fish and Wildlife Service. 96 pages.

**TA Langen**. 2008. Predicting Hotspots of Herpetofauna Mortality on New York Highways: Validation of a GIS Model. Final Report, prepared for the New York State Biodiversity Research Institute and The Nature Conservancy. 37 pages.

Riveredge Associates (report authors: **T.A. Langen**, G. Johnson, L. Harper, A. Johnson). 2007. Habitat assessment and field surveys of the Fort Drum Connector Northern Alternative (nc4). Report prepared for Lochner Engineering and NYSDOT. 38 pp.

**T.A. Langen**, M.R Twiss, T.C. Young, K.J. Janoyan, J.C. Stager, J.D. Osso Jr., H. Prutzman, and B.T. Green. 2006. Environmental impacts of winter road management at the Cascade Lakes and Chapel Pond. Final report, prepared for the New York State Department of Transportation, Albany NY. Clarkson Center for the Environment Report Number 1. 335 pp.

Green, B. T., K.J. Janoyan, **T. Langen**, M.R Twiss, T.C. Young, J.D. Osso Jr., and H. Prutzman. 2005. Winter event management. Civil & Environmental Engineering Department Report Number 05-08, Clarkson University, Potsdam, NY.

Johnson, G., T. Crockett and **T. Langen**. 2004. 2004 Blanding's turtle surveys at Cole's Creek, St. Lawrence County, New York. Final Report, prepared for New York Power Authority, White Plains, NY. 62 pp.

## PUBLISHED BOOK REVIEWS

---

**Langen, T.A.** 2005. A review of W.J. Carmen's *Noncooperative Breeding in the California Scrub-Jay*. *Studies in Avian Biology* No. 28. Journal of Field Ornithology *in press*.

**Langen, T.A.** 2004. A review of F.J. Broswimmer's *Ecocide: A Short History of Mass Extinction of Species*. *Renewable Agriculture and Food Systems* 19: 66.

**Langen, T.A.** 2002. Comparative studies are for the birds - A review of P.M. Bennett & I.P.F. Owens'

*Evolutionary Ecology of Birds: Life Histories, Mating Systems, and Extinction*. Ecology 83:3523-3524.

**Langen, T.A.** 2001. Latitude does matter - A review of B.J.M. Stutchbury & E.S. Morton's *Behavioral Ecology of Tropical Birds*. Ecology 82:3271-3272.

## POPULAR PUBLICATIONS

---

**Langen, T.A.** and S.L. Vehrencamp. 2000. Los conflictos de la familia alrededor del nido. *Rothschildia* 7:17-22.

**Langen, T.A.** 1993. Birds of the Guanacaste Conservation Area. Distributed by the Research Program, Guanacaste Conservation Area, Costa Rica.

## TEACHING

---

**Assistant Professor** (1999-2006), **Associate Professor** (2006-present), **Clarkson University**

**Undergraduate:** (1) Behavioral Ecology & Sociobiology, (2) Animal Learning & Cognition, (3) General Ecology & Lab, (4) Conservation Biology, (5) Biology for Non-majors (6) Honors Program Science Course *The Adirondack to Algonquin Biological Corridor – Desirable and Feasible*, (7) University Study Abroad Course: *Costa Rica – Melding an Export-Based Economy with Environmental Conservation & Social Welfare*

**Dual Undergraduate / Graduate:** (1) Biological Systems & Global Environmental Change, (2) Lake Ontario Great Lakes Science Practicum

**Graduate only:** Ecological Statistics

**K-12 Professional Development Summer Institute Leader, Clarkson University.** 2008-2009  
One week program, theme: *Integrating Conservation Science & Math*.

**Visiting Professor, International Institute of Wildlife Conservation & Management, National Autonomous University of Costa Rica.** 2007-2008

(1) Animal Behavior for Conservation & Wildlife Management (M.S. level course, in Spanish). (2) Workshop on the Environmental Impact of Infrastructure (one week professional development program for Costa Rica civil servants, environmental consultants, and environmental scientists, in Spanish). (3) Faculty resource person and field problem leader, Organization of Tropical Studies graduate and undergraduate courses in tropical ecology.

**Co-Director** (2002-2007), **Acting Director** (2003), **Research Undergraduate Experience Site Program in Environmental Science and Engineering, Clarkson University** 2002-2007

The theme of the program was research to improve environmental sustainability. The ten -week program supported ten undergraduates per summer session.

**Course Instructor, Lake Ontario Great Lakes Science Practicum.** 2003

One week teaching - cruise on R/V Lake Guardian, the US Environmental Protection Agency's Great Lakes Program Office research ship, on Lake Ontario. My module focused on monitoring pelagic bird populations as indicators of environmental change.

**Course Coordinator & Lecturer, Woodrow Wilson National Fellowship Foundation & the Organization of Tropical Studies.** 1999-2001

Leadership Program for Teachers: Environmental Science Institute on Global Environmental Change, Costa Rica (55 science teachers per year, grades 5-12, summer). I developed curriculum, coordinated the program in the field, supervised up to ten faculty per session.

**Lecturer, University of California San Diego.** 1997, 1998

(1) Behavioral Ecology and (2) Methods in Behavioral Ecology.

**Lecturer, University of California Los Angeles.** 1997, 1998

Animal Behavior.

**Course Instructor, University of California's Education Abroad Program in Tropical Agroecology & Biology at Las Cruces, Costa Rica.** 1997

(1) Tropical Diversity and Conservation and (2) Independent Field Projects in Tropical Ecology and Agriculture.

**University Content Expert / Mini-institute Instructor, U.C.L.A. Graduate School of Education and Information.** 1996, 1997

Professional development for primary and middle-school science teachers.

**Course Co-Coordinator, Organization of Tropical Studies.** 1995

Tropical Biology: an Ecological Approach (graduate-level, in Costa Rica).

## TEXTBOOK MATERIAL DEVELOPMENT

---

**Textbook Supplementary Educational Materials:** C. Borden & V. Belk (2003) *Biology - Science for Life* (Prentice Hall) Chapter 14: *Is Earth Experiencing a Biodiversity Crisis?* Materials developed include an interactive animation (*Predicting Biodiversity Loss from Habitat Destruction in Tropical Forests*), lecture activities, and test-bank questions. Contributing author to *Student Study Guide: Biology – Science for Life* (ISBN 0-13-141505-0), contributed material includes web-based activities, and challenge and review questions related to conservation biology.

**Textbooks & Educational Materials Reviewer:** Routledge - Psychology Press, MacMillan Publishers, McGraw-Hill, Prentice Hall, John Wiley & Sons, Benjamin Cummings – Pearson Education, Sinauer Associates, Oxford University Press, Roberts & Company. *Reviewed materials include portions of five non-majors introductory biology texts, nine ecology texts, five animal behavior texts, two environmental science texts, one conservation biology text and three web-based research platforms.*

## ENVIRONMENTAL CONSULTING AND OTHER SCIENTIFIC WORK EXPERIENCE

---

**Riveredge Associates:** *Habitat assessment of the Fort Drum proposed interstate spur.* 2007

**Cornell Lab of Ornithology - Golden-winged warbler Atlas Project:** *Trained and supervised student biological technicians, surveyed for birds in five counties of northeast New York State* 2003 – 2009

**Northern Ecological Associates, Inc.:** *Pre-construction Blanding's Turtle surveys and habitat improvement recommendations, New York Power Authority St. Lawrence – FDR Power Project* 2003 – 2004

**Scientific Consultant:** Education, Ecotourism and Research Programs, Guanacaste Conservation Area, Costa Rica.



	1991 – 1993
<b>Microbiology Laboratory Technician:</b> Bristol Myers Corporation.	1987 – 1988
<b>Rural Extension Agent (Forestry program):</b> Peace Corps in Burkina Faso, West Africa.	1984 - 1986

## **FIELD RESEARCH SITES / NATURAL HISTORY EXPERTISE**

---

Sahelo-Sudanian savannah (Burkina Faso); Tropical dry, lowland tropical wet, and tropical montane forest (Costa Rica); Chaparral and coastal sage scrub (California); Desert (California); Temperate and boreal forests (New York); Cold temperate wetlands, lakes & rivers (Lake Ontario – St. Lawrence River region, Adirondack Mountains)

## **UNIVERSITY & COMMUNITY SERVICE**

---

<b>Clarkson Tenure Committee</b>	2009 - present
<b>Honors Program Research Committee</b>	2008 – present
<b>Clarkson Institutional Animal Care &amp; Use Committee</b>	2006 – present
<b>Convocation Readings Committee</b>	2008-2009
<b>Health Professions Advising Committee</b>	2001 – 2002, 2006 - 2007
<b>REU SITE Program co-director, Environmental Science &amp; Engineering</b>	2002 - 2007
<b>Academic Integrity Committee (Chair)</b>	2002 - 2007
<b>Clarkson University Faculty Senate</b>	2001 - 2007
Faculty Senate Secretary	2004 – 2006
<b>Faculty Host, Clarkson Honorary Degree Recipient Kathryn Fuller</b>	2005
<b>Campus Curriculum Assessment Committee</b>	2003 - 2006
<b>Clarkson Common Experience (Foundation Curriculum) Committee</b>	2001 - 2004
<b>Ad hoc Committee to Revise the Bylaws of the Faculty Senate</b>	2003 - 2004
<b>Indian Creek Nature Center Vice-President</b>	2001 - 2004
<b>Center for Environmental Management Task Force for an Interdisciplinary Masters Program</b>	2002
<b>Campus Sustainability Taskforce on the Ecosystem</b>	2001 - 2002
<b>Project Challenge (High-school Bridge Program) Instructor</b>	2001
<b>Clarkson University Student Disciplinary Committee</b>	2001

## **PROFESSIONAL ORGANIZATIONS**

---

Adirondack Research Consortium, American Ornithological Union, Animal Behavior Society, Center for the Environment (Clarkson University), International Association for Great Lakes Research, International Society for Behavioral Ecology, Society for Conservation Biology

## INVITED WORKSHOPS & MEETINGS (selected)

---

- National Center for Ecological Assessment & Synthesis and Ecological Society of America:** *Adapting continental scale data for undergraduate teaching and research.* 2009
- Ecological Society of America & National Ecological Observatory Network:** *Adapting continental scale data for undergraduate teaching and research.* 2008
- Adirondack Communities & Conservation Program of the Wildlife Conservation Society:** *Ecological questions and research priorities for the Adirondack Park.* 2004
- National Endowment of the Humanities Interdisciplinary Workshop on Values and the Environment,** organized by Dr. Greg Cooper, Washington & Lee University 2001

## LANGUAGES

---

Spanish, French, Moré.

## REVIEWER

---

**Papers:** Agriculture & Human Values, American Midland Naturalist, American Naturalist, Animal Behaviour, Animal Cognition, Auk, Behavioral Ecology, Behavioral Ecology & Sociobiology, Biology Letters, Biometrics, Bird Behavior, Canadian Journal of Zoology, Condor, Conservation Biology, Copeia, Ecology & Society, Environmental Science & Technology, Ethology, European Journal of Wildlife Research, Hydrobiologia, Journal of Agricultural & Environmental Ethics, Journal of Animal Ecology, Journal of Field Ornithology, Journal of Great Lakes Research, Journal of Ornithology, Journal of Theoretical Biology, Landscape & Urban Planning, Ornitologia Neotropical, Proceedings of the Royal Society - Series B, SIAM Undergraduate Research Online (SIURO), Western Birds, Wetlands, Wildlife Research, Wilson Journal of Ornithology.

**Grants – Panels** Council on International Exchange of Scholars: Fulbright Scholar Grant Program, Life Science A - Animal Review Committee (*three year term*); (USA) National Science Foundation (NSF), Directorate for Biological Sciences: Environmental Biology; Animal Behavior Society: Student Grants Program (*multiple years*), Developing Nations Grants Program; Great Lakes Research Consortium: New York Great Lakes Protection Fund (*multiple years*).

**Grants – ad hoc** (Austria) Fonds zur Förderung der wissenschaftlichen Forschung (FWF); (USA) National Science Foundation (NSF), Directorate for Biological Sciences: Environmental Biology – Population Biology, Integrative Biology & Neurosciences – Animal Behavior, Behavioral and Cognitive Sciences - Geography and Spatial Sciences, Integrative Organismal Systems – Animal Behavior; Netherlands Organization for Scientific Research (NWO) Council for Earth and Life Sciences.



## INVITED SCIENTIFIC TALKS

---

**Institutions:** Adirondack Park Agency, California State Universities - Los Angeles, Long Beach, San Diego; Clarkson University; College of William & Mary; Freshwater Research Institute; Hobart & William Smith College; Institute in Wildlife Conservation & Management, National University of Costa Rica; Natural History Museum of the Adirondacks, Lewis and Clark College; National Museum of Costa Rica; New York State Biodiversity Research Institute; New York State Department of Transportation; Partners for Amphibian & Reptile Conservation; Princeton University; St. Lawrence County Environmental Management Council; St. Lawrence University; State Universities of New York – Albany, Binghamton, Plattsburgh, Potsdam; United States National Zoological Park; Universities of California - Davis, Los Angeles, San Diego; University of Missouri -Columbia; University of Pennsylvania.

**Invited Conference Panels or Plenaries:** Northeast Partners for Amphibian & Reptile Conservation, Society for the Study of Herpetology, Northeast Association of Fish & Wildlife Agencies.

## PRESS FEATURES ABOUT RESEARCH, TEACHING & COMMENTARY (selected)

---

**Turtle Crossing Fences Built** (L. Shull, Watertown Daily Times 7/23/10,

<http://www.watertowndailytimes.com/article/20100723/OGD01/307239917>).

**Students Put Up Fence to Protect Turtles** (A. Jacobs, Watertown Daily Times 11/2/09,

<http://www.watertowndailytimes.com/article/20091102/NEWS05/311029980>).

**Clarkson University Receives \$239k Biomathematics Research Grant** (Clarkson University Press Release 9/4/09, <http://www.clarkson.edu/news/view.php?id=2306>).

**Clarkson University Professor Helps Promote Ecology in the Digital Age** (Clarkson University Press Release 8/7/09, <http://www.clarkson.edu/news/view.php?id=2283>).

**Road Kill Leads to Study of Highway Impact on Environment** (Clarkson University Press Release 9/25/08, <http://www.clarkson.edu/news/view.php?id=2149=1804>).

**The Hazards of Road Salt** (The EnvironMinute, podcast 1/31/08, Finger Lakes Productions <http://www.environminute.com/webtext/080131.htm>).

**Clarkson Biology Professor Will Travel to Costa Rica as Fulbright Scholar** (Clarkson University Press Release 6/14/07, <http://www.clarkson.edu/news/view.php?id=1804>).

**Clarkson Research Group Publishes Paper on Land Use Influence on Water Quality in the St. Regis River** (Clarkson University Press Release 4/11/06, <http://www.clarkson.edu/news/view.php?id=1467>).

**Profs troll for botulism cause** (D. Sommerstein, North Country Public Radio 9/6/05, <http://www.northcountrypublicradio.org/news/newstopics.php?tid=28>).

**Road salt affecting Adirondack lakes** (B. Mann, North Country Public Radio 8/29/05, <http://www.northcountrypublicradio.org/news/newstopics.php?tid=28&nophotos=&limit=10&start=10>).

- Clarkson University is conducting survey of botulism in the St. Lawrence River** (Clarkson University Press Release 8/25/05, <http://www.clarkson.edu/news/view.php?id=1330>).
- Clarkson Professor awarded for research on bird decision making “rules” by American Society of Naturalists** (Clarkson University Press Release 7/8/05, <http://www.clarkson.edu/news/view.php?id=1308>).
- World’s pickiest animal identified** (Jennifer Viegas, Discovery News 7/29/05, <http://dsc.discovery.com/news/briefs/20050725/pickyanimal.html>).
- Understanding the distribution and feeding patterns of Lake Ontario waterbirds** (Lake Ontario Management Plan (LaMP) Update 2005: page 3, USEPA and Environment Canada, <http://www.epa.gov/glnpo/lakeont/2005/louupdate2005.pdf> )
- Road runoff and spray affecting wetlands** (Daniel E. Goren, Standard-Times of New Bedford MA 3/24/05, <http://www.esf.edu/newspubs/news/2005/03.28.salt.htm>).
- Salt's impact on mountain lakes studied** (Mary Esch, Associated Press 1/10/05, <http://enn.com/today.html?id=6895>). Nationally syndicated in the print and web media. Listed on *Yahoo News Science Headlines*.
- Clarkson scientists tackle complex problem: how to reduce harmful effects of road deicing on environment and still maintain safe winter travel** (Clarkson University Press Release 10/19/04, <http://www.clarkson.edu/news/view.php?id=1160>).
- Clarkson researchers studying why turtles cross road** (C. Fram, Watertown Daily Times 7/26/04).
- Biologists study turtle trips in St. Lawrence County** (WWNY TV, Channel 7 Watertown NY, 6/30/04, <http://www.wwnytv.net/72k/full-story.asp?uid=6063&area=home+page&ss=Langen>)
- Clarkson students experience fresh water ecological research and high seas on Lake Ontario** (Clarkson University Press Release 11/12/03, [http://www.clarkson.edu/news/releases/rel.cgi?great\\_lakes\\_practicum\\_068-03.rel](http://www.clarkson.edu/news/releases/rel.cgi?great_lakes_practicum_068-03.rel))
- Clarkson University Professor’s research into roadkill focuses on impact of highways on native turtle population** (Clarkson University Press Release 9/9/03, [http://www.clarkson.edu/news/releases/rel.cgi?langen\\_research\\_042-03.rel](http://www.clarkson.edu/news/releases/rel.cgi?langen_research_042-03.rel))
- Saving turtles from traffic** (D. Sommerstein, North Country Public Radio 8/11/03, <http://www.northcountrypublicradio.org/news/archives/03/08/0/10>), syndicated nationally through the Great Lakes Radio Consortium ([http://glrc.org/story.php3?story\\_id=2022](http://glrc.org/story.php3?story_id=2022)).
- Wildlife without borders – A2A initiative seeks to link two parks** (E. Kanze, Adirondack Explorer, Nov./Dec. 2002 Issue).
- Wildlife corridor would strengthen parks - Study says locals would fight project** (B. Mann, North Country Public Radio 3/14/02, <http://www.northcountrypublicradio.org/news/archive0203.php>).
- Students’ study supports idea of wildlife corridor** (M. Lang, Watertown Daily Times 3/6/02).
- Clarkson University students decide proposed wildlife corridor desirable, but difficult to implement** (Clarkson University Press Release 2/28/02, [http://www.clarkson.edu/news/releases/rel.cgi?a2a\\_corridor\\_127-01.rel](http://www.clarkson.edu/news/releases/rel.cgi?a2a_corridor_127-01.rel) )