

Dr. Theodore Stankowich

Department of Organismic & Evolutionary Biology
Museum of Comparative Zoology Laboratories
Harvard University
26 Oxford Street
Cambridge, Massachusetts 02138

Department of Biology
221 Morrill Science Center South
University of Massachusetts
611 North Pleasant Street
Amherst, Massachusetts 01003

Office: 413-545-0035; Fax: 413-545-3243

Employment

Harvard University: Department of Organismic and Evolutionary Biology
Postdoctoral Scientist & Head Teaching Fellow: 09/2010 – present

University of Massachusetts Amherst: Department of Biology
Adjunct Research Assistant Professor: 11/2010 – present
Postdoctoral Scientist & Lecturer: 08/2008 – 11/2010
Darwin Postdoctoral Fellow (Sponsor: Dr. Elizabeth Jakob): 08/2006 – 08/2008

Education

Doctor of Philosophy – Animal Behavior

University of California, Davis, Animal Behavior Graduate Group, Dept. Psychology (June 2006)
Emphasis: Ethology and Evolutionary Bases of Animal Behavior
Graduate Advisor: Dr. Richard G. Coss (Dept. Psychology)

Master of Science – Animal Behavior

University of California, Davis, Animal Behavior Graduate Group, Dept. Psychology (June 2002)
Emphasis: Ethology and Evolutionary Bases of Animal Behavior

Bachelor of Arts – Biological Sciences (*Cum Laude*)

Cornell University, College of Arts and Sciences (May 2000)
Emphasis: Evolution, Ecology, and Behavior
Research Advisor: Dr. Paul W. Sherman (Dept. Neurobiology & Behavior)

Publications (* indicates undergraduate co-author)

23. **Stankowich, T.** 2012. Armed and dangerous: predicting the presence and function of defensive weaponry in mammals. *Adaptive Behavior (Special Issue: "Predator-Prey Interactions")*, 20(1), 34-45.
22. **Stankowich, T., Caro, T., & Cox*, M.** 2011. Evolution of aposematism in terrestrial carnivores. *Evolution*, 65(11), 3090-3099.
21. **Caro, T., Beeman*, K., Stankowich, T., Whitehead, H.** 2011. The functional significance of colouration in cetaceans. *Evolutionary Ecology*, 25, 1231-1245.
20. **Cooper, W.E. & Stankowich, T.** 2010. Prey or predator? Body size of an approaching animal affects decisions to attack or escape. *Behavioral Ecology*, 21(6), 1278-1284.
19. **Stankowich, T.** 2010. Risk-taking in self-defense. In: *Encyclopedia of Animal Behavior*, Breed, M. D. & Moore, J., eds. *Antipredator Behavior Section*, Stankowich, T., section ed., Academic Press, Oxford, Vol. 3, pp. 79-86.
18. **Caro, T. M. & Stankowich, T.** 2010. The function of contrasting pelage markings in artiodactyls. *Behavioral Ecology*, 21(1), 78-84.
17. **Stankowich, T. & Caro, T. M.,** 2009. Evolution of weaponry in female bovids. *Proceedings of the Royal Society B*, 276, 4329-4334.
16. **Fernández-Juricic, E., Zahn*, E.F., Parker*, T., Stankowich, T.** 2009. Tolerance to pedestrian disturbance of the California endangered Belding's Savannah Sparrow (*Passerculus sandwichensis beldingi*). *Avian Conservation and Ecology*, 4(2), 1 [online].

15. **Blumstein, D.T., Ferando*, E., Stankowich, T.** 2009. A test of the multi-predator hypothesis: Yellow-bellied marmots respond fearfully to the sight of novel and extinct predators. *Animal Behaviour*, 78, 873-878.
14. **Stankowich, T.** 2009. When predators become prey: flight decisions in jumping spiders. *Behavioral Ecology*, 20(2), 318-327.
13. **Stankowich, T.** 2009. Invited review (*The Better to Eat You With: Fear in the Animal World*, Berger 2008). *Quarterly Review of Biology*, 84(3), 298.
12. **Stankowich, T.** 2008. Ungulate flight responses to human disturbance: a review and meta-analysis. *Biological Conservation*, 141(9), 2159-2173.
11. **Stankowich, T.** 2008. Tail-flicking, tail-flagging, and tail position in ungulates with special reference to black-tailed deer. *Ethology*, 114(9), 875-885.
10. **Stankowich, T. & Coss, R. G.** 2008. Alarm walking in Columbian black-tailed deer: its characterization and possible antipredatory signaling functions. *Journal of Mammalogy*, 89(3), 636-645.
9. **Stankowich, T.** 2008. Invited review (*Quantifying Behavior the JWatcher Way*, Blumstein & Daniel 2007, eds.). *Integrative and Comparative Biology*, 48(3), 437-439.
8. **Stankowich, T. & Coss, R. G.** 2007. Effects of risk assessment, predator behavior, and habitat on escape behavior in Columbian blacktailed deer. *Behavioral Ecology*, 18(2), 358-367.
7. **Stankowich, T. & Coss, R. G.** 2007. The re-emergence of felid camouflage with the decay of predator recognition in deer under relaxed selection. *Proceedings of the Royal Society B*, 274, 175-182.
6. **Stankowich, T. & Coss, R. G.** 2006. Effects of predator behavior and proximity on risk assessment in Columbian blacktailed deer. *Behavioral Ecology*, 17(2), 246-254, COVER PHOTOGRAPH.
5. **Stankowich, T. & Blumstein, D. T.** 2005. Fear in animals: a meta-analysis and review of risk assessment. *Proceedings of the Royal Society B*, 272, 2627-2634.
4. **Stankowich, T.** 2003. Marginal predation methodologies and the importance of predator preferences. *Animal Behaviour*, 66, 589-599.
3. **Stankowich, T.** 2003. Invited Review (*The African Wild Dog*, Creel & Creel 2002). *Ethology*, 109, 613-616.
2. **Stankowich, T. & Sherman, P.W.** 2002. Pup shoving behavior in adult naked mole rats. *Ethology*, 108, 975-992.
1. **Bell, A. M., Davis, J. M., Debose, J. L., Johnson, J. C., Long, S. L., Mabry, K. E., Stankowich, T. & Watters, J. V.** 2002. Greatest hits in behavioral ecology. *Trends in Ecology and Evolution*, 17, 296.

Editorial Positions

2009-2010: "Antipredator Behavior" Section Editor for *The Encyclopedia of Animal Behaviour*, Academic Press / Elsevier (M. Breed & J. Moore, Editors-in-Chief)

Popular Press Coverage

Coverage of Aposematism in Carnivores (Stankowich et al. 2011)

Nature, "Stinky, stocky, and stripy for a reason", June 9, 2011, Vol. 474, p. 131

Science Daily, "Black, White and Stinky: Explaining Bold Coloration in Skunks", June 8, 2011

National Geographic, "Why Skunks Have Stripes: To Point to Fierce Anal Glands?" June 1, 2011

The Scientist, "How Skunks Got Their Stripes" June, 7, 2011

Also covered on: physorg.com, environmentalgraffiti.com, researchblogging.com, EarthSky.com, et al.

Coverage of Appearance for Science on Screen: Alfred Hitchcock's "The Birds"

National Public Radio: Radio Boston, "Hitchcock's 'The Birds' Shows Real-World Bird Behavior", 4/25/11

Nature.com, "Science on Screen takes on Hitchcock's 'The Birds'", *Nature Network (Boston Blog)*, 4/25/11

Also covered on: boston.com, surfbirds.com, boston.com, thephoenix.com, mysecretboston.com

Coverage of Horn Evolution (Stankowich & Caro 2009)

Nature, "Armed and Dangerous", Sept. 24, 2009, Vol. 461, p. 450

New Scientist, "Mystery of horned females solved", Sept. 2009, Issue 2726

Natural History Magazine, "A Horny Proposition", Dec. 2009 – Jan. 2010

Science Scope, "Why do female water buffaloes have horns?", Nov. 2009, Vol. 33(3), p. 10-11

Harvard Museum of Natural History Exhibit: "Headgear: The Natural History of Horns and Antlers"

Also covered on: physorg.com, smithsonianmag.com, esciencenews.com, tweetmeme.com, inboxrobot.com

Coverage of Marmot Predator Recognition (Blumstein, Ferando, & Stankowich 2009)

Science, "Run Away!", Oct. 23, 2009, Vol. 326, p. 505

Natural History Magazine, "Ghost of Predation Past", Nov. 2009

Coverage of Stankowich & Coss 2008: *BBC Wildlife Magazine*, "A novel step for deer", 11/2008

Coverage of Stankowich & Blumstein 2005: *El Colombiano*, "A veces hay que irse con el rabo entre las patas (Sometimes it is necessary to go away with the tail between the legs)", March 1, 2006

Awards, Grants, & Funding

Best Overall Presentation: AnthroTree (NSF & NESCent funded workshop), 2011

Distinguished Teacher Award Nominee: University of Massachusetts, Amherst, 2009-2010

National Science Foundation Grant: \$1000, for travel to Animal Behavior Society Meeting in Brazil, 3/09

Darwin Research Grant: \$5000, 8/06-8/08

Darwin Postdoctoral Fellowship: \$62500, Univ. of Massachusetts, Amherst: 8/06.

Bodega Marine Reserve Research Grant: \$1200, 7/05.

Dissertation Year Fellowship: \$30179, University of California, Davis: 7/05.

Humanities Research Grant: \$1500, University of California, Davis, 4/05.

Block Grant: \$15031, University of California, Davis, 1/05.

Bodega Marine Reserve Research Grant: \$600, 7/04.

Humanities Research Grant: \$1500, University of California, Davis, 4/04.

Block Grant: \$6661, University of California, Davis, 4/04.

2-time Phi Beta Kappa Graduate Scholarship Finalist: 4/04, 4/05.

National Science Foundation Predoctoral Research Fellowship Honorable Mention: 2003.

Block Grant: \$14862, University of California, Davis, 10/00.

Center for Animal Behavior Unforseen Needs Grant: \$330, University of California, Davis, 6/02.

Undergraduate Research Grant: \$750, Cornell University, 10/99.

Phi Beta Kappa National Honor Society – *Theta* of New York

Phi Kappa Phi National Honor Society

Cornell University Dean's List (all 8 undergraduate semesters)

Teaching Experience

HARVARD UNIVERSITY

Human Evolutionary Biology 1310 – Hormones and Behavior

Head Teaching Fellow

Term: Spring 2011, Spring 2012

Life Sciences 2 – Evolutionary Human Physiology and Anatomy

Head Teaching Fellow

Term: Fall 2010, Fall 2011

UNIVERSITY OF MASSACHUSETTS – AMHERST

Biology 548 – Mammalogy

Instructor

Term: Spring 2009, Guest Lecturer Spring 2010

Biology 287 – Introductory Ecology

Instructor

Terms: Fall 2008, Fall 2009, Spring 2010

Biology 312 – Writing in Biology

Instructor

Terms: Fall 2008, Spring 2009, Fall 2009, Spring 2010

Biology 280 – Evolution: Diversity of Life Through Time

Co-instructor (with Prof. Margery Coombs)

Terms: Fall 2006, Fall 2007, Guest Lecturer Spring 2009

Organismic & Evolutionary Biology 697B – Ecology and Evolutionary Biology

Instructor/Course Leader

Terms: Fall 2006, Fall 2007

Organismic & Evolutionary Biology 697Y – Graduate Student Seminar Series

Instructor/Course Leader

Terms: Spring 2007, Spring 2008

Biology 550 – Animal Behavior

Guest Lecturer (2 lectures)

Term: Fall 2006

Graduate Student Mentoring Presentations:

“How to Succeed as a Graduate Student” (9/06, 9/07)

“How to Build a Professional Powerpoint Presentation” (9/06, 9/07)

“Navigating your Qualifying Exam: Tips, Advice, and the Jedi Mind Trick” (4/08)

HAMPSHIRE COLLEGE

Cognitive Science 112 – Basic Animal Behavior Theory

Instructor

Term: Fall 2009

UNIVERSITY OF CALIFORNIA – DAVIS

Graduate Teaching Course: “Putting First Years on the Fast Track”

Lecturer (1 lecture each term)

3 Terms: Spring 2004, Winter 2005, Winter 2006; Course Organizer & Leader: Dr. Gail Patricelli

Biological Sciences 1B: Introduction to Zoology Laboratory

Associate Instructor / Academic Coordinator

3 Terms: Summer 2003, Summer 2004; Summer 2006; Instructor: Dr. Pat Randolph

Teaching Assistantships

Biological Sciences 1B: Introduction to Zoology Laboratory (8 terms)

Evolution and Ecology 100: Evolution (1 term)

Psychology 101: Psychobiology (1 term)

Psychology 155: Environmental Awareness (1 term)

Psychology 100: Cognitive Psychology (1 term)

Presentations & Posters

2011

Invited Seminar, Dept. Biology, Santa Clara University, CA, USA
Invited Seminar, Dept. Biology, Eastern Illinois University, Charleston, IL, USA
Invited Seminar, Dept. Biology, Arcadia University, Glenside, PA, USA
Invited Seminar, Dept. Biology, West Chester University, West Chester, PA, USA
Invited Seminar, Dept. Biology, University of Michigan-Dearborn, Dearborn, MI, USA
Invited Seminar, Dept. Psychology, James Madison University, Harrisonburg, VA, USA
Invited Seminar, Dept. Psychology, Franklin & Marshall College, Lancaster, PA, USA
Invited Expert Speaker, Science on Screen: "THE BIRDS", Coolidge Corner Theatre, Brookline, MA, USA
Contributed Seminar, The Annual Meetings of the Animal Behavior Society and the International Ethological Conference in Bloomington, IN, USA.

2010

Invited Seminar, Museum of Comparative Zoology, Harvard University, Cambridge, MA, USA
Pierce Lab Seminar, Dept. Organismic and Evolutionary Biol, Harvard University, Cambridge, MA, USA
Hoekstra Lab Seminar, Dept. Organismic and Evolutionary Biol, Harvard University, Cambridge, MA, USA
Contributed Seminar, The Annual Meeting of the Animal Behavior Society in Williamsburg, VA, USA.
Contributed Seminar, The Annual Meeting of the Society for the Study of Evolution in Portland, OR, USA.
Invited Seminar, Dept. Biology, Stonehill College, Easton, MA, USA
Invited Seminar, Dept. Biology, The Pennsylvania State University, State College, PA, USA

2009

Invited Seminar, BIOTAP Program, Dept Biology, University of Massachusetts, Amherst, MA, USA.
Invited Seminar, School of Cognitive Science, Hampshire College, Amherst, MA, USA
Contributed Seminar, The Annual Meeting of the Animal Behavior Society in Pirenópolis, BRAZIL

2008

Lead Speaker, Antipredator Behavior Symposium Working Group, Annual Meeting of the International Society for Behavioral Ecology, Cornell University, Ithaca, NY, USA
Invited Seminar, Biology Program, Bard College, Annandale-on-the-Hudson, NY, USA
Invited Seminar, School of Biology, Georgia Institute of Technology, Atlanta, GA, USA

2007

Invited Seminar, Dept Biological Sciences, Mount Holyoke College, South Hadley, MA, USA
Contributed Seminar, The Annual Meeting of the Animal Behavior Society in Burlington, VT, USA
Invited Seminar, Dept Ecology, Behavior, & Evolution, University of California San Diego, CA, USA
Invited Seminar, Dept Psychology, University of Exeter, Exeter, UK
Invited Seminar, Harvard Forest Field Station, Harvard University, Petersham, MA, USA
Invited Seminar, BIOTAP Program, Dept Biology, University of Massachusetts, Amherst, MA, USA.

2006

Clyde Warner Allee Talk, The Annual Meeting of the Animal Behavior Society in Snowbird, UT, USA
Invited Seminar, Bodega Marine Laboratory, Bodega Bay, CA, USA
Exit Seminar, Animal Behavior Graduate Group, University of California, Davis, CA, USA
Invited Seminar, Organismic & Evolutionary Biol, University of Massachusetts, Amherst, MA USA.
Contributed Seminar, Annual Meeting of the Western Section of the Wildlife Society, Sacramento, CA, USA

2005

Brownbag Seminar, Dept Psychology, University of California, Davis, CA, USA
Invited Seminar, Dept Env Science, Policy, and Management, University of California, Berkeley, CA USA
Contributed Seminar, The Annual Meeting of the Animal Behavior Society in Snowbird, UT, USA
2nd Animal Behavior Graduate Group Research Conference, University of California, Davis, CA, USA

2004

Invited Seminar, Point Reyes National Seashore, Point Reyes Station, CA, USA
Contributed Seminar, The Annual Meeting of the Animal Behavior Society in Oaxaca, MEXICO.
Psychobiology Brownbag, Department of Psychology, University of California, Davis, CA, USA

2003

1st Animal Behavior Graduate Group Research Conference, University of California, Davis, CA, USA

Posters:

2009: Undergraduate Research Symposium, University of Massachusetts Amherst, MA, USA (presented by Christine Jackson: undergraduate research assistant)

2008: International Society for Behavioral Ecology in Ithaca, NY, USA

2001: International Society of Applied Ethology in Davis, CA, USA

Membership in Professional Societies

Animal Behavior Society

International Society of Behavioral Ecology

Society for the Study of Evolution

American Society of Mammalogists

The Ecological Society of America

Symposia, Workshops, and Continuing Education

2011: Participant in the AnthroTree Workshop (Comparative Phylogenetics using R) at UMass Amherst

2011: Participant in the Sexual Selection Symposium at Columbia University, New York, NY, USA

2010: Participant in Museum Collections Preparation Course at UMass Amherst (Instructor: Dr. Alan Richmond); gained natural history museum **curatorial skills: preparing study skins, using *Dermestes* beetles, skeleton cleaning, cataloging**

2010: Participant in workshop on strategies for teaching grammar in professional writing courses at UMass Amherst; sponsored by the UMass Center for Writing

2009: Participant in Wildlife Techniques Workshop by the Student Section of the Wildlife Society; gained experience with **traditional navigation, radiotelemetry, live-trapping, net guns, and dart guns.**

2009: Participant in workshop on Relaxed Selection at the National Evolutionary Synthesis Center

2008: Lead organizer of post-conference symposium at the *Annual Meeting of the International Society for Behavioral Ecology* (8/08; Ithaca, NY) entitled: "Decision-making during predator-prey encounters – identifying transformative research in antipredator behavior"

2004: Group leader of the Novel Predators/Prey working group at the *Human Induced Rapid Environmental Change* Workshop for the Center of Animal Behavior at the Univ. California Davis. (Organizer: Andy Sih)

2002: Group leader of the evolution working group at the *Behavioral Syndromes* Workshop for the Center of Animal Behavior at the Univ. California Davis. (Organizer: Andy Sih)

Peer Review Contributions (number of articles reviewed in parentheses)

National Science Foundation, PLoS ONE (3), Proceedings of the Royal Society B (3), Biology Letters (5), Behavioral Ecology (17), Behavioral Ecology & Sociobiology (16), Animal Behaviour (17; "Top Reviewer of 2007"), Ethology (18), Behaviour (6), Animal Cognition (5), Canadian Journal of Zoology (2), Journal of Ethology (2), Ecological Applications, Biological Conservation, Journal of Evolutionary Biology, Journal of Animal Ecology, Journal of Wildlife Management and Wildlife Monographs, Caribbean Journal of Science, European Journal of Wildlife Research (3), Naturwissenschaften, Wildlife Research, Acta Theorologica, Acta Ethologica, Herpetologica, Rangifer, Ursus, American Midland Naturalist, Journal of Arid Environments, Northeastern Naturalist, Bird Behavior, Ecography, Folia Zoologica, South African Journal of Wildlife Research, Arctic Antarctic & Alpine Research

Leadership & Service

National Park Service Deer Management Science Team: Fire Island National Seashore, NY
Animal Behavior Society Student Research Grant Competition, Proposal Review, Spring 2012
Board Member: International Network for the Study of Predator-Prey Interactions
Animal Behavior Society Annual Meeting Session Moderator, Williamsburg, VA, Summer 2010
Society for the Study of Evolution Annual Meeting Session Moderator, Portland, OR, Summer 2010
Animal Behavior Society Student Research Grant Competition, Proposal Review, Spring 2010
OEB Thursday Lunch Discussion Group, Leader, Univ. Massachusetts-Amherst, Spring 2008
Darwin Postdoctoral Fellowship Search Committee, Univ. Massachusetts-Amherst, 01/08-04/08
Invited Speaker for High School Science Classes, La Habra High School, La Habra, CA, 12/96-current
“Watch It Don’t Squash It” Afterschool Youth Program at Underprivileged Minority Schools,
UCD/Sacramento, California, 9/05 – 6/06
Animal Behavior Graduate Group New Student Orientation Guide, Editor, UC Davis, California. 2001–
05.
Adaptation and Evolution Reading Group, Organizer, UC Davis, California. 12/02 – 6/02.
Undergraduate Biology Advising Steering Committee, Div. of Biological Sciences, Cornell Univ. 5/99 –
5/00
Undergraduate Biology Student Advisor, Div. of Biological Sciences, Cornell Univ. 5/98 – 5/00