

George A. Lozano

Dept. of Zoology ♦ University of Tartu
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Citizenship: Canadian

EMPLOYMENT

Research Fellow	Dept. of Zoology, Tartu Univ., Estonia	2008 →
Visiting Associate Professor	School of Vet. Med., St. Matthew's Univ.	2006 – 2007
Visiting Scientist	Dept. of Animal Ecology, Tartu Univ., Estonia	winter 2006
Sessional Lecturer	University of British Columbia, Okanagan	2005 – 2006
Research Assistant	College of Vet. Med., U. of Georgia, Athens	summer 2005
Term Lecturer	University of Northern British Columbia	winter 2005
Instructor	Ewha Academy, Gumi, South Korea	fall 2004
Professor, Part-time	Dept. of Biology, University of Ottawa	12/03 – 07/04
Post-doctoral Researcher	Patuxent Wildlife Research Center	2001 – 2002
Visiting Assistant Professor	Dept. of Biol., University of Memphis	2000 – 2001
Post-Doctoral Fellow	NSERC @ Dept. Biol. Sci., Simon Fraser U.	1998– 2000
Post-Doctoral Fellow	FCAR @ Dept. of Biol., U. of Calif., Riverside	1997
President	McGill Post-Graduate Students' Society	1994 – 1995
Teaching Assistant	Dept. of Biology, McGill University	1991 – 1995
Teaching Assistant	Dept. of Zoology, U. of Western Ontario	1988 – 1991
Research Assistant	Dept. of Botany, University of Guelph	summer 1988
Deer-research Technician	Ontario Ministry of Natural Resources	summer 1987

EDUCATION

Ph.D., Biology, McGill University, 1996. Advisor: R. E. Lemon (Retired.)
Thesis: "Parental care and female mate choice in yellow warblers (*Dendroica petechia*)"

M.Sc., Zoology, University of Western Ontario, 1991 - Supervisor: P. T. Handford
Thesis: "Intrasexual competition and delayed plumage maturation in female tree swallows"

B.Sc., Wildlife Biology and Ecology, University of Guelph, 1988.

SCHOLARSHIPS, FELLOWSHIPS, GRANTS AND AWARDS

NSERC Post-Doctoral Fellowship (taken to Simon Fraser U.)	\$64,000	1998-1999
FCAR Post-Doctoral Fellowship (taken to UC, Riverside)	\$44,000	1996-1997
FCAR Doctoral Scholarship (McGill)	\$26,000	1993-1994
NSERC Postgraduate Scholarship (taken to McGill)	\$34,000	1991-1993
John K. Cooper Foundation Research Award	\$1000	1993
Sigma Xi Grant-in-Aid of Research Award	\$500	1990
Canadian Wildlife Service Univ. Research Support Fund	\$2000	1990

NSERC: Natural Sciences and Engineering Research Council (Canada)
FCAR: Fonds pour la Formation de Chercheurs et l'Aide à la Recherche (Quebec).

TEACHING**Lecturer**

- 1) University of Tartu - Public Speaking in Science (Graduate) Fall 2009.
- 2) St. Matthew's University – Physiology II VM321 - twice.
- 3) St. Matthew's University – Behaviour and Welfare VM381- thrice.
- 4) University of British Columbia – Animal Behaviour BIO359, fall 2005. 40 students.
- 5) U. of Northern British Columbia – Evolution BIO 323, winter 2005. 80 students.
- 6) U. of Northern B. C. – Parasite & Disease Ecology BIO 315, winter 2005. 40 students.
- 7) U. of Ottawa – Vertebrate Zoology BIO 3108, winter 2004, lectures and labs. 80 students.
- 8) U. of Memphis.- Intro. Biology II (for non-majors) – BIO 1081, winter 2001. 40 students.
- 9) U. of Memphis.- Intro. Biology I (for non-majors) – BIO 1071, fall 2000. 240 students.
- 10) Simon Fraser U. – Wildlife Biology BISC 419, winter 2000, lectures and labs. 20 students.

Teaching assistant

- University of British Columbia.- Anatomy and Physiology (nursing program)
- McGill University.- Statistics, Ornithology, Behavioural Ecology and Introductory Biology.
- University of Western Ontario.- Animal Behaviour and Introductory Biology.

STUDENT RESEARCH SUPERVISION AND ADVISING**McGill University**

- Supervised an Independent Studies Research project (see LaFleur *et al.* 1997, below).
- Worked with several 4th year students affiliated with our lab: C. Daniel, C. Riley, R. Tittler, K. Mottley and others.

Simon Fraser University

- Helped to design and develop an M.Sc. research thesis project (Wardrop. 2003. *Ibis* 145: 439).

PROFESSIONAL AFFILIATIONS

American Ornithologists' Union, Animal Behavior Society, Behavioral and Brain Sciences, British Ecological Society, International Carotenoid Society

PROFESSIONAL SERVICE**Reviewer for Scientific Journals** (number of papers)

Acta Zoologica Fennica (1); American Journal of Primatology (1); American Naturalist (3); Animal Behaviour (6); Auk (3); Behavioral Ecology (6); Behavioral Ecology and Sociobiology (1); Behaviour (1); Biology Letters (4); Ecology Letters (2); Ecoscience (1); Ethology (2); Evolutionary Ecology (1); Functional Ecology (1); Ibis (1); Integrative and Comparative Biology (1); International Journal for Parasitology (1); Journal of Avian Biology (7); Journal of Field Ornithology (3); Journal of Fish Biology (1); Naturwissenschaften (2); Oikos (3); Oecologia (2); Physiological and Biochemical Zoology (2); Proceedings of the Royal Society (of London), B (6); Solutions (1); Wilson Bulletin (4).

St. Matthew's University

- Grade Appeals, Student Discipline, and Curriculum Committee. Member and parliamentarian of the Faculty Assembly (small faculty, all with a high committee load).

Simon Fraser University

- Co-organiser of the SFU-UBC-UVic Ecology Retreat, Nov. 6-8, 1998.

McGill University

- Member of Senate, Graduate Students' representative, 1995-1996.
- Member of the Senate Nominating Committee, 1995-1996.
- Member of Council, Faculty of Graduate Studies and Research (FGSR), 1994-1996.
- Member of the Executive Committee, FGSR, 1994-1996.
- President, Post-Graduate Students' Society (PGSS), 1994-1995 (*all posts linked to this one*).
- Member of the Committee on the Co-ordination of Student Services, 1994-1995.
- Dept. of Biology representative at PGSS Council, 1995-96.
- Member of the Research Policy Committee, FGSR, 1994-1995.
- Dept. of Biology General Assembly Graduate Students' representative, 1994-1995.

External Reviewer/Other

- Cornell University, Dept. of Natural Resources, Tenure and Promotion reviewer.
- National Science Foundation, Research Grant proposal – Ecological and Evolutionary Physiology. 2004, 2006.
- Encyclopedia of Earth: Topic Editor- Animal behaviour ([link](#)).

INVITED SEMINARS (excluding “in-house”)

- Seoul National University, Seoul, South Korea, October 2004
- Wilfrid Laurier University, Waterloo, Ont., July 2003
- Okanagan University College, Kelowna, B.C., June 2003
- Laurentian University, Sudbury, Ont., June 2003.
- Ferris State University, Big Rapids, MI, April 2002
- State University of New York, Fredonia, February 2002.
- Mississippi State University, University, MS, February 2001.
- University College of Cariboo, Kamloops, B.C. April 2000.

PUBLICATIONS

Lozano, G. A. (in press). Evolutionary explanations in medicine: how do they differ and how to benefit from them. Medical Hypotheses

Lozano, G. A. 2009. Multiple cues in mate selection: the sexual interference hypothesis. BioScience Hypotheses 2: 37-42.

Lozano, G. A. 2009. The other side of the coin: intersexual selection and the expression of emotions to signal youth or maturity. Behavioral and Brain Sciences 32(5): 398-399.

Lozano, G. A. 2008. Obesity and sexually selected anorexia nervosa. Medical Hypotheses 71: 933-940.

- Lozano, G. A.** and Lank, D. B. 2004. Immunocompetence and testosterone-dependent condition traits in male ruffs (*Philomachus pugnax*). Animal Biology 54: 315-329.
- Lozano, G. A.** and Lank, D. B. 2003. Seasonal and gender-dependent changes in cell-mediated immunosenescence in ruffs (*Philomachus pugnax*). Proceedings of the Royal Society of London, Series B 270(1520): 1203-1208.
- Lozano, G. A.** and Ydenberg, R. C. 2002. Transgenerational effects of maternal immune challenge in tree swallows (*Tachycineta bicolor*). Canadian Journal of Zoology 80: 918-925.
- Lozano, G. A.** 2001. Carotenoids, immunity and sexual selection: comparing apples and oranges? American Naturalist 158: 200-203.
- Lozano, G. A.** 2000. Affirmative action won't solve sex discrimination*. Nature 403(6770): 825 (*editors' misleading and sensationalist title, not mine).
- Lozano, G. A.** and Lemon, R. E. 1999. Effects of prior residency and age on breeding performance in yellow warblers. Wilson Bulletin 111: 381-388.
- Lozano, G. A.** 1998. Parasitic stress and self-medication in wild animals. In . Møller, A. P., Milinski, M., and Slater, P. J. B. (Eds.). Advances in the Study of Behavior Volume 27, Stress and Behavior. Chapter 6, pp. 291-317. Academic Press, London. **(Book chapter-invited contribution-see popular media coverage below: "Expert Instinct" and "Pharmacopia")**.
- Lozano, G. A.** and Lemon, R. E. 1998. Adoption of yellow warbler nestlings by song sparrows. Wilson Bulletin 110: 131-133.
- Lozano, G. A.** and Lemon, R. E. 1998. Parental care responses by yellow warblers (*Dendroica petechia*) to simultaneous manipulations of food abundance and brood size. Canadian Journal of Zoology 76: 916-924.
- Zuk, M. and **Lozano, G.** 1998. A review of "Host-parasite evolution: general principles and avian models" (Clayton, D. h. and Moore, J., eds.). Auk 115: 546-547. **(Book review)**
- Zuk, M. and **Lozano, G.** 1998. A review of "Host-parasite evolution: general principles and avian models" (Clayton, D. h. and Moore, J., eds.). Quarterly Review of Biology 73: 87. **(Book review)**
- LaFleur, D. L., **Lozano, G. A.** and Sclafani, M. 1997. Female mate choice copying in guppies, *Poecilia reticulata*: a re-evaluation. Animal Behaviour 54: 579-586.
- Lemon, R. E., Perreault S. and **Lozano, G. A.** 1996. Breeding dispersions and site fidelity of American redstarts (*Setophaga ruticilla*). Canadian Journal of Zoology 74: 2238-2247.

- Lozano, G. A.** and Lemon, R. E. 1996. Male plumage, paternal care and reproductive success in yellow warblers, *Dendroica petechia*. Animal Behaviour 51: 265-272.
- Lozano, G. A.**, Perreault S. and Lemon, R. E. 1996. Age, arrival date, and reproductive success of male American redstarts, *Setophaga ruticilla*. Journal of Avian Biology 27: 164-170.
- Lozano, G. A.** and Handford, P. T. 1995. A test of an assumption of delayed plumage maturation hypotheses using female tree swallows. Wilson Bulletin 107: 153-164.
- Lozano, G. A.** and Lemon, R. E. 1995. Food abundance and parental care in yellow warblers (*Dendroica petechia*). Behavioral Ecology and Sociobiology 37: 45-50.
- Lozano, G. A.** 1994. Carotenoids, parasites, and sexual selection. Oikos 70: 309-311 (**see popular media coverage below** - Walker 2000).
- Lozano, G. A.** 1994. Size, condition, and territoriality in male tree swallows (*Tachycineta bicolor*). Canadian Journal of Zoology 72: 330-333.
- Lozano, G. A.** 1991. Optimal foraging theory: a possible role for parasites. Oikos 60: 391-395.

PRESENTATIONS

- Lozano, G. A.** 2008. Obesity and sexually selected anorexia nervosa. Twelfth International Behavioral Ecology Congress, 9-15 August, Cornell University, Ithaca, New York, USA.
- Lank, D. B. and **Lozano, G. A.** 1999. Does immunosenescence occur as predicted by life history theory? an interspecific test of T-cell mediated responses among three genders of ruffs, *Philomachus pugnax*. 113th Stated Meeting, American Ornithologists' Union, 10-14 August, Cornell University, Ithaca, New York. U.S.A.
- Lozano, G. A.** and Lemon, R. E. 1996. Parental care responses by yellow warblers (*Dendroica petechia*) to simultaneous manipulations of food abundance and brood size. 21st Annual meeting, Société Québécoise pour l'Étude Biologique du Comportement, 18-20 October, Université de Sherbrooke, Sherbrooke, Quebec, Canada.
- Lozano, G. A.**, Perreault S. and Lemon, R. E. 1995. Age, arrival date, and reproductive success of male American redstarts (*Setophaga ruticilla*). 20th Annual Meeting, Société Québécoise pour l'Étude Biologique du Comportement, 3-5 November, McGill University, Montreal, Quebec, Canada.
- Lozano, G. A.** and Lemon, R. E. 1995. Food abundance and paternal care in yellow warblers (*Dendroica petechia*). 20th Annual Meeting, Société Québécoise pour l'Étude Biologique du Comportement, 3-5 November, McGill University, Montreal, Quebec, Canada.
- Lafleur, D., **Lozano, G. A.** and Sclafani, M. 1995. Mate choice copying in female guppies, *Poecilia reticulata*, NOT!! 20th Annual Meeting, Société Québécoise pour l'Étude

Biologique du Comportement, 3-5 November, McGill University, Montreal, Quebec, Canada.

Lozano, G. A. and Lemon, R. E. 1995. Food abundance and paternal care in yellow warblers (*Dendroica petechia*). 113th Stated Meeting, American Ornithologists' Union, 15-19 August, The Cincinnati Museum Center, Cincinnati, Ohio, U.S.A.

Lozano, G. A. and Lemon, R. E. 1994. Paternal care and female mate choice in yellow warblers (*Dendroica petechia*). 31st Annual Meeting, Animal Behavior Society, 23-28 July, University of Washington, Seattle, Washington, U.S.A.

Lozano, G. A. 1992. A test of an assumption of delayed plumage maturation hypotheses using tree swallows (*Tachycineta bicolor*). Fourth International Behavioral Ecology Congress, 17-22 August, Princeton University, Princeton, New Jersey, U.S.A.

Lozano, G. A. 1991. Age-related differences in foraging ability and condition in female tree swallows (*Tachycineta bicolor*). 109th Stated Meeting, American Ornithologists' Union, 14-17 August, McGill University, Montreal, Quebec, Canada.

Lozano, G. A. 1991. Age-related differences in competitiveness in female tree swallows, *Tachycineta bicolor*. Ontario Ecology and Ethology Colloquium, 12-14 May, University of Guelph, Guelph, Ontario, Canada.

IN THE POPULAR MEDIA . . .

Withers, M. 2008. Modern persuasions and foreign liaisons. The Baltic Times, December 3 (<http://www.baltictimes.com/news/articles/21897/>)

Lozano, G. A. 2003. Letter to the Editor- Sexual differences in human risk-taking behaviour. Ottawa Citizen, January 5 (<http://www.georgealozano.com/papers/mine/Lozano2003OttawaCitizen.jpg>).

Pennisi, E. 2003. Colorful males flaunt their health. Science 300: 29-30.

Canadian Broadcasting Corporation. 2003. Brightest beak signals a healthy male. July 3 (http://www.cbc.ca/health/story/2003/04/03/bird_beaks030403.html).

Pickrell, J. 2003. Bright beaks signal health to female birds, study says. National Geographic News - On line. April 3 (http://news.nationalgeographic.com/news/2003/04/0403_030403_beaks.html)

Expert Instinct. 2000. Pharmacopia. Presenter: Jolyon Jenkins. Producer: Paul Arnold. British Broadcasting Corporation- Radio 4. Aired April 24, 2000 (<http://www.georgealozano.com/Pharmacopia.wma>)

Walker, M. 2000. She's gotta have it. New Scientist 165(2223): 22-26 (January 29).

Furlow, B. 2000. Kills all known germs. New Scientist 165(2222): 36-39 (January 22).