

TRISTAN A.F. LONG

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Languages: English & French

POSITIONS

September 2009 – Present

EEB Departmental Post-Doctoral Fellow
Department of Ecology, & Evolutionary Biology,
University of Toronto, Toronto, ON, Canada

- Currently investigating the role of environmental heterogeneity in the maintenance of genetic variation
- Supervisors: Dr. A. Agrawal, & Dr. L. Rowe

July 2005 – August 2009

Post-Doctoral Fellow
Department of Ecology, Evolution & Marine Biology,
University of California at Santa Barbara, Santa Barbara, CA, USA

- Beginning in September of 2007, my research on "*Experimental evolution of mathematical reasoning in an insect model system.*" was supported through an NSERC post-doctoral fellowship (*International tenure*).
- Research for this project was also supported through a UCSB Harvey L. Karp Post-Doctoral Research Discovery Award.
- Supervisor: Dr. W.R. Rice

RESEARCH INTERESTS

I work on a diverse array of topics in the areas of population, ecological and evolutionary genetics. This includes the study of:

- Speciation and the processes that promote or prevent divergence,
- Sexual selection, sexual conflict and population dynamics,
- Evolution of mating systems and reproductive isolation,
- Genetic and environmental sources of phenotypic and fitness variation,
- The process of adaptation, using experimental evolution techniques,

EDUCATION

September 2001 – June 2005

Doctor of Philosophy (Biology)
Department of Biology, Queen's University,
Kingston, ON, Canada

- Thesis title: "Adaptive responses to reproductive competition and conflicts in animals". Thesis defended on June 24, 2005.
- Supervisors: Dr. R. Montgomerie & Dr. A. Chippindale

September 1999 – August 2001

Master of Science (Zoology)

*Department of Zoology, University of Guelph,
Guelph, ON, Canada*

- Thesis title: “Of mice, mothers, and mirror-images: testing relationships between asymmetry and fecundity”. Thesis defended on August 25, 2001.
- Supervisor: Dr. J.M. Fryxell,

September 1995 – June 1999

Bachelor of Science Honours (Ecology & Evolution) Program

Department of Zoology,

University of Western Ontario, London, ON, Canada

- Thesis title: “Twigs or grabs? A comparison of twig bundle artificial substrate and Ekman grab methods of benthic macroinvertebrate collection.”
- Honours Supervisor: Dr. R. Bailey, (UWO); Co-Supervisor: Dr. J. R. Morris, Department of Biology, Laurentian University, Sudbury, ON

PUBLICATIONS

Long, T.A.F., A. Pischedda & W.R. Rice (2009) A cost of sexual attractiveness to high fitness females. *Public Library of Science Biology* 7(12): e1000254

Long, T.A.F., P.M. Miller, A.D. Stewart & W.R. Rice (2009) Estimating the heritability of adult female fitness in a locally-adapted *Drosophila melanogaster* population. *Journal of Evolutionary Biology* 22: 637-643.

Long, T.A.F., A.D. Stewart & P.M. Miller (2009) Potential confounds to an assay of cross-generational fitness benefits of mating and male seminal fluid. *Biology Letters* 5: 26-27.

Long, T.A.F. & W.R. Rice (2007) Adult locomotory activity mediates intra-locus sexual conflict in a lab-adapted population of *Drosophila melanogaster*. *Proceedings of the Royal Society of London B* 274: 3105-3112.

Long, T.A.F., R. Montgomerie & A. Chippindale (2006) Quantifying the gender load: can population crosses reveal interlocus sexual conflict? *Philosophical Transactions of the Royal Society of London, Series B* 361: 363-374.

Long, T.A.F. & R. Montgomerie (2005) Ejaculate investment in a promiscuous rodent: effects of population density and social role in *Peromyscus maniculatus*. *Evolutionary Ecology Research* 8: 345-356

Long, T.A.F. & A. Pischedda (2005) Do female *Drosophila melanogaster* adaptively bias offspring sex ratios in relation to the age of their mate? *Proceedings of the Royal Society of London B* 272 (1574): 1781-1787.

Long, T.A.F. (2005) The influence of mating system on the intensity of parent-offspring conflict in Primates. *Journal of Evolutionary Biology* 18 (3): 509-515.

Lewis, C. & **T.A.F. Long** (2005) Courtship and reproduction in *Carybdea sivickisi* (Cnidaria: Cubozoa). *Marine Biology*. 147 (2): 477-483.

Long T.A.F. (2003) Seminal Advances in Sexual Selection: Conference Report on Biology of Spermatozoa Biennial Meeting; published on biomednet.com

GRANTS, AWARDS & HONOURS

Departmental EEB Post-Doctoral Fellowship (University of Toronto)	2009
NSERC Post-Doctoral Fellowship (<i>International tenure</i>) (University of California, Santa Barbara)	2007 – 2009
Harvey L. Karp Post-Doctoral Research Discovery Award (University of California, Santa Barbara)	2007 – 2008
University of California Santa Barbara URCA Grant	2006 – 2007
Department of Biology, Queen's University, PhD Thesis Prize for 2005	2006
Genetics Society of Canada's Margaret Thompson PhD Thesis Award for best thesis in Genetics in Canada for 2005	2006
Dean's Award (Queen's University)	2004 – 2005
Queen's University Graduate Award	2001 & 2004
Queen's University Graduate Travel Grant	2001, 2002, 2003 & 2004
NSERC Post-Graduate Scholarship – B (PhD), (Queen's University)	2002 – 2004
NSERC Post-Graduate Scholarship – A (MSc) (University of Guelph)	2000 – 2001
Guelph Zoology Graduate Travel Grant	2001
A.D. Latornell Travel Grant (University of Guelph)	2001
Ontario Graduate Scholarship in Science & Technology (U of Guelph)	1999 – 2000
Gold Medal in Ecology & Evolution (UWO)	1999
Dean of Science Honour Roll (UWO)	1996, 1997, 1998 & 1999
University of Western Ontario Entrance Scholarship	1996

PRESENTATIONS

My research has been presented at the following conferences & seminars:	
• Ecology & Evolutionary Biology Dept. Seminar, Univ. Toronto	2009
• Annual Meeting of the Society for the Study of Evolution	2009
• Evolution of Sex & Recombination Meeting	2009
• Annual Meeting of the Canadian Society for Ecology & Evolution	2008
• Western Evolutionary Biology Meeting of the Network for Experimental Research in Evolution	2007 & 2008
• Animal Behavior & Evolution Group Seminar, Univ. of Melbourne	2007
• Annual Meeting of the Genetics Society of Canada (I gave the Margaret Thompson PhD Thesis Award Lecture)	2006
• Ecology, Behavior & Evolution Section Seminar, UC San Diego	2006
• Scientific Discussion Meeting of the Royal Society of London	2005
• Ecology Evolution & Behavior Section Seminar, Queen's University	2004
• Annual Meeting of the Society for the Study of Evolution	2004
• Biology of Spermatozoa Biennial Meeting	2003
• California Population & Evolutionary Genetics Meeting	2003
• Behavioural Ecology & Evolution Research Seminar, Queen's University	

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| | 2002, 2003, 2004, & 2005 |
| • Annual Meeting of International Society of Behavioral Ecologists | 2002 |
| • Ontario Ecology & Ethology Colloquium | 2001, 2002 & 2004 |
| • Annual Meeting of the Ecological Society of America | 2001 |
| • Annual Meeting of the Canadian Society of Zoologists | 2001 |

PREVIOUS PROFESSIONAL EXPERIENCE

January 2002 – May 2002

Teaching Assistant in Animal Behaviour (Biology 321),
Course Supervisor: Dr. R. Montgomerie, Queen's University

September 2001 – December 2001

Teaching Assistant, Data Management & Analysis (Biology 243),
Course Supervisor: Dr. R. Montgomerie, Queen's University

January 2001 – May 2001

Teaching Assistant, Wildlife Conservation & Management (Biology 4150),
Course Supervisor: Dr. J.M. Fryxell, University of Guelph

January 2000 – May 2000

Teaching Assistant in Mammalogy (Biology 4280),
Course Supervisor: Dr. R.J. Brooks, University of Guelph

September 1999 – December 1999

Teaching Assistant in Population Ecology (Biology 3110),
Course Supervisor: Dr. J.M. Fryxell, University of Guelph

May 1999 – September 1999

Field Biologist
• Managed predator-prey mammal monitoring project located in vicinity of the Wildlife Research Station, Algonquin Provincial Park. This job involved live-trapping pine marten (*Martes americana*) and other small mammal species and collecting data on climate and food availability.
Supervisor: Dr. J.M. Fryxell, University of Guelph

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Canadian Society for Ecology and Evolution
- Society for the Study of Evolution
- Genetics Society of Canada
- Network for Experimental Research on Evolution (a University of California Multi-campus Research Program)