

## Albrecht I. Schulte-Hostedde

### Current Academic Address:

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### **Academic Appointments**

- 04/11-present *Member - Board of Directors, Canadian Council for Animal Care*  
01/11-present *Canada Research Chair (Tier 2) - Applied Evolutionary Ecology*  
07/10-present *Research Associate - Environmental and Life Sciences Graduate Program, Trent University.*  
06/08-present *Director*  
*Wildlife Research Station, Algonquin Provincial Park, Ontario*  
07/08-present *Associate Professor*  
*Department of Biology, Laurentian University*  
08/03-07/08 *Assistant Professor*  
*Department of Biology, Laurentian University*  
01/02-07/03 *NSERC Post-Doctoral Fellow*  
*Department of Biology, Queen's University*  
Associate - Robert D. Montgomerie

### **Education**

- 09/97-12/01 *Ph.D. Zoology - University of Western Ontario*  
Thesis: Sex specific patterns of reproductive success and survival in relation to body size in the yellow-pine chipmunk (*Tamias amoenus*).  
Supervisor - John S. Millar
- 09/94-04/97 *MSc. Zoology - University of Guelph*  
Thesis: Interspecific interactions and habitat distributions of small mammals in Algonquin Park.  
Supervisor - Ronald J. Brooks
- 09/90-04/94 *BSc. (Hon.) Ecology and Evolution - University of Western Ontario*  
Thesis: Size selective hoarding of hickory nuts by the white-footed mouse.  
Supervisor: John S. Millar

## **Awards and Scholarships**

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- 01/11 Appointed Canada Research Chair (Tier 2) in Applied Evolutionary Ecology (Laurentian University)
- 07/09 Awarded Merit Increment (Laurentian University)
- 07/08 Awarded Tenure and promoted to Associate Professor (Laurentian University)
- 05/08 NSERC Research Capacity Development Grant Faculty Award to Enhance Research Productivity - course release (Laurentian University)
- 03/06 Awarded Merit Increment (Laurentian University)
- 06/02 University of Western Ontario nominee for Canadian Association for Graduate Studies/ University Microfilm International Distinguished Dissertation Award.
- 01/02 - 07/03 NSERC Post-Doctoral Fellowship.
- 11/01 Post-doctoral Fellow Support Award, Queen's University, Kingston, Ontario. Declined.
- 04/01 Lumsden Graduate Fellowship in Science, University of Western Ontario, London, Ontario.
- 04/00 Lumsden Graduate Fellowship in Science, University of Western Ontario, London, Ontario.
- 12/99 Nominated for Society of Graduate Students Teaching Assistant Award of Excellence, University of Western Ontario.
- 01/99 - 12/00 NSERC Post-Graduate Scholarship B.
- 01/99 - 08/01 Graduate Tuition Scholarship, University of Western Ontario, London, Ontario.
- 12/98 Nominated for Society of Graduate Students Teaching Assistant Award of Excellence, University of Western Ontario.
- 05/98 - 12/98 Ontario Graduate Scholarship.
- 08/97 - 08/01 Special University Scholarship, University of Western Ontario, London, Ontario.

## **Grants (from 2003)**

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- 01/11 Canadian Foundation for Innovation - CRC infrastructure. (\$62 381 (CFI) + \$94 967 (ORF matching funds and in-kind contributions - \$157 348). *Enhanced infrastructure fore Canada Research Chair in Applied Evolutionary Ecology.*
- 01/11 Canada Research Chair (Tier 2) (\$500 000 - \$100 000 x 5 years). *Applied Evolutionary Ecology.*
- 09/10 Northern Ontario Heritage Fund Corporation (NOHFC) internship (\$27 000).
- 04/10 NSERC RTI Grant (\$36 256). Principal Investigator with 4 others. *Computer Assisted Sperm Analysis system.*
- 04/09 NSERC Discovery Grant (\$145 000 - \$29 000 x 5 years). *Consequences of sexual selection in mammals.*
- 03/09 Indian and Northern Affairs Canada - Northern Scientific Training Program (\$4 900)
- 04/08 Laurentian University Research Fund Award (\$4 000). *Correlates of reproductive*

- success and female mate choice in eastern chipmunks.*
- 03/08 CFI Institutional Operating Funds (\$6 900)
- 03/08 NSERC Strategic Grants (Supplemental Competition) (2007 - \$89 425; 2008 - \$81 625). Principal Investigator with J. Bowman (Ontario Ministry of Natural Resources/Trent Univ). *Impacts of domestic mink on wild mink populations.*
- 11/07 Canadian Foundation for Innovation - Leaders Opportunity Fund, Ontario Research Fund (\$327 944) - . Co-applicant with Thomas Merritt (PI) and David Lesbarreres. *Laboratory for Molecular, Ecological and Evolutionary Genetics (LMEEG).*
- 04/07 NSERC RTI Grant (\$36 919). Co-applicant with G. Tattersall (PI) and 4 others. *Vehicle grant for the Wildlife Research Station.*
- 08/06 CFI Institutional Operating Funds (\$9 700)
- 05/06 Ontario Ministry of Northern Development and Mines Summer Jobs Service (\$1 120/position - 2 positions (total \$ 2 240)). *Research/Field Assistant*
- 09/05 Early Researcher Award (formerly Premier's Research Excellence Award), Ontario Government (\$150 000 / 5 years)
- 08/05 Memorandum of Agreement with Ontario Ministry of Natural Resources (\$24 000 - \$10 000 (2005) + \$14 000 (2006)). *Genetic assessment of wild and ranch mink in Ontario.*
- 05/05 Human Resources and Skills Development Canada Summer Career Placement (\$1 044). *Research/Field Assistant* (Declined).
- 05/05 Ontario Ministry of Northern Development and Mines Summer Jobs Service (\$1 120). *Research/Field Assistant*
- 05/05 Laurentian University Research Fund Award (\$2 000). *Evolutionary and behavioural ecology of the northern flying squirrel.*
- 04/05 NSERC MFA Grant - Wildlife Research Station, Algonquin Park. Co-applicant with Fiona Hunter, Brock University (PI), and 5 others (\$108 000 - \$36 000 x 3 years). *Wildlife Research Station - Algonquin Park.*
- 04/05 NSERC RTI Grant (\$30 600 + \$2 500 matching funds from Laurentian University). Principal applicant with 3 others. *Vehicle for field research in evolutionary ecology, systematics and conservation.*
- 06/04 Canadian Foundation for Innovation (\$44 000 + matching funds from Ontario Innovation Trust for \$88 000 total contribution to \$115 000 grant). *Evolutionary and behavioural ecology of mammals: individual and genetic approaches.*
- 05/04 Laurentian University Research Fund Award (\$1 800). *Evolutionary and behavioural ecology of the northern flying squirrel.*
- 04/04 NSERC Discovery Grant (\$110 000 - \$22 000 x 5 years). *Evolutionary and behavioural ecology of mammals: individual and genetic approaches.*
- 04/04 NSERC RTI Grant (\$10 100) + \$2 500 matching funds from Laurentian University. *Equipment for genetic analyses in molecular ecology.*
- 12/03 Laurentian University Research Fund award (\$4 000). *Evolutionary and behavioural ecology of the northern flying squirrel.*
- 08/03 Laurentian University Start-up funds (\$25 000)

## Refereed Publications

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58. **Schulte-Hostedde, A.I.**, Bowman, J., and L.A. Nituch. In Press. Dynamic spleen mass in wild and domestic American mink. *Biological Journal of the Linnean Society*.
57. Thompson, M., N. Mykytczuk, K. Gooderham, and **A.I. Schulte-Hostedde**. In Press. Prevalence of the bacterium *Coxiella burnetii* in wild rodents from a Canadian natural environment park. *Zoonoses and Public Health*.
- 56\*. **Schulte-Hostedde, A.I.**, M.A. Eys, M. Emond, and M. Buzdon. 2012. Sport participation influences perceptions of mate characteristics. *Evolutionary Psychology*. 10: 78-94. \*Each investigator contributed significantly to the research for this article and considers its authorship as joint.
55. Nituch, L.A., J. Bowman, P. Wilson, **A.I. Schulte-Hostedde**. 2012. Molecular epidemiology of Aleutian mink disease virus in free-ranging domestic, hybrid, and wild mink. *Evolutionary Applications*. 5: 330-340.
54. Bowman, J., Kidd, A.G., Martin, P.A., McDaniel, T.V., L.A. Nituch, and **A.I. Schulte-Hostedde**. 2012. Testing for bias in a sentinel species: contaminants in free ranging domestic, wild, and hybrid mink. *Environmental Research*. 112: 77-82.
53. Gooderham, K.L., and **A.I. Schulte-Hostedde**. 2012. Does 2D:4D predict fitness in a wild mammal? *Canadian Journal of Zoology*. 90: 93-100.
52. **Schulte-Hostedde, A.I.**, J. Bowman, and K.R. Middell. 2011. Allometry of the baculum and sexual size dimorphism in American martens and fishers (Mammalia: Mustelidae). *Biological Journal of the Linnean Society*. 104: 955-963.
51. Gooderham, K., and **A.I. Schulte-Hostedde**. 2011. Macroparasitism influences reproductive success in red squirrels (*Tamiasciurus hudsonicus*). *Behavioral Ecology*. 22:1195-1200.
50. Laurence, S., D.W. Coltman, J.C. Gorrell, and **A.I. Schulte-Hostedde**. 2011. Genetic structure of muskrat (*Ondatra zibethicus*) and its concordance with taxonomy in North America. *Journal of Heredity*. 102: 688-696.
49. Nituch, L.A., J. Bowman, K.B. Beauclerc, and **A.I. Schulte-Hostedde**. 2011. Mink farms predict Aleutian disease exposure in wild American mink. *PLoS One*. 6(7): e21693.
48. Patterson, L.D., and **A.I. Schulte-Hostedde**. 2011. Behavioural correlates of parasitism and reproductive success in male eastern chipmunks (*Tamias striatus*). *Animal Behaviour*. 81: 1129-1137.
47. **Schulte-Hostedde, A.I.**, S. Kuula, C. Martin, C. Schank, and D. Lesbarrères. 2011. Allometry and sexually dimorphic traits in male anurans. *Journal of Evolutionary Biology*. 24: 1154-1159.
46. **Schulte-Hostedde, A.I.**, and S.C. Elsasser. 2011. Spleen mass, parasite load and body condition in male American mink. *Journal of Mammalogy*. 92: 221-226.
45. Reid, N.R., S. Hird, **A.I. Schulte-Hostedde**, and J. Sullivan. 2010. Examination of nuclear loci across a zone of mitochondrial introgression between *Tamias ruficaudus* and *T. amoenus*. *Journal of Mammalogy*. 91: 1389-1400.
44. St. Amour, V., T.W.J. Garner, **A.I. Schulte-Hostedde**, and D. Lesbarrères. 2010. Developmental instability in relation to two amphibian pathogens in the green frog (*Rana*

- clamitans*). *Conservation Biology*. 24: 788-794.
43. Bowman, J., and **A.I. Schulte-Hostedde**. 2009. The mink is not a reliable sentinel species. *Environmental Research*. 109: 937-939.
  42. Fairn, E.R., Y. Alarie, and **A.I. Schulte-Hostedde**. 2009. Temporal variation of adult sex ratio in the whirligig beetle *Dineutus nigrior* Roberts (Coleoptera: Gyrinidae). *Coleopterist Bulletin*. 63: 298-300.
  41. Elsasser, S.C., R. Floyd, P.D.N. Hebert and **A.I. Schulte-Hostedde**. 2009. Species identification of North American parasitic guinea worm species (Nematoda: *Dracunculus* spp.) with DNA barcoding. *Molecular Ecology Resources*. 9: 707-712 .
  40. Bonanno, V.L., and **A.I. Schulte-Hostedde**. 2009. Sperm competition and ejaculate investment in red squirrels (*Tamiasciurus hudsonicus*). *Behavioral Ecology and Sociobiology*. 63: 835-846.
  39. Kidd, A.G., J. Bowman, D. Lesbarrères, **A.I. Schulte-Hostedde**. 2009. Hybridization between escaped domestic and wild American mink (*Neovison vison*). *Molecular Ecology*. 18: 1175-1186.
  38. **Schulte-Hostedde, A.I.**, and C.M.M. Schank. 2009. Secondary sexual traits and individual quality in male green frogs (*Rana clamitans*). *Journal of Herpetology*. 43: 89-95
  37. Laurence, S., A.J. Bewick, D.W. Coltman, C.S. Davis, S.C. Elsasser, A.G. Kidd, D. Lesbarrères and **A.I. Schulte-Hostedde**. 2009. Isolation and characterization of polymorphic microsatellite loci in muskrat, *Ondatra zibethicus*. *Molecular Ecology Resources*. 9: 654-657.
  36. Tasikas, D.E., E.R. Fairn, S. Laurence, and **A.I. Schulte-Hostedde**. 2009. Baculum variation and allometry in the muskrat (*Ondatra zibethicus*): a case for sexual selection. *Evolutionary Ecology*. 23: 223-232.
  35. Fairn, E.R., **A.I. Schulte-Hostedde**, and Y. Alarie. 2008. Water mite parasitism is associated with body condition and sex of the whirligig beetle *Dineutus nigrior* Roberts (Coleoptera: Gyrinidae). *Ecoscience*. 15: 327-331.
  34. Fairn, E.R., **A.I. Schulte-Hostedde**, and Y. Alarie. 2008. Attachment site and infestation parameters of parasitic water mites on the whirligig beetle *Dineutus nigrior* Roberts (Coleoptera: Gyrinidae). *Aquatic Insects*. 30: 223-228.
  33. Burness, G, **A.I. Schulte-Hostedde**, and R. Montgomerie. 2008. Body condition influences sperm energetics in lake whitefish. *Canadian Journal of Fisheries and Aquatic Research*. 65: 165-170.
  32. Litzgus, J.D., F. Bolton, and **A.I. Schulte-Hostedde**. 2008. Reproductive output depends on body condition in spotted turtles (*Clemmys guttata*). *Copeia* 2008: 84-90.
  - 31\*. **Schulte-Hostedde, A.I.**, M.A. Eys, and K. Johnson. 2008. Female mate choice is influenced by male sport participation. *Evolutionary Psychology*. 6: 113-124. \*Each investigator contributed significantly to the research for this article and considers its authorship as joint.
  30. Gorrell, J.C., and **A.I. Schulte-Hostedde**. 2008. Patterns of parasitism and body size in red squirrels (*Tamiasciurus hudsonicus*). *Canadian Journal of Zoology*. 86: 99-107.
  29. Kaufman, S.D., T.A. Johnston, W.C. Leggett, M.D. Moles, J.M. Casselman, and **A.I. Schulte-Hostedde**. 2007. Relationships between indices of body condition and proximate composition in walleyes (*Sander vitreus*). *Transactions of the American*

- Fisheries Society*. 136: 1566-1576.
28. Fairn, E.R., Y. Alarie and **A.I. Schulte-Hostedde**. 2007. Sexual size dimorphism in the diving beetle *Laccophilus maculosus* Say (Coleoptera: Dytiscidae). *Coleopterist Bulletin*. 61: 409-418.
  27. Bowman, J., A. Kidd, R. Gorman, and **A.I. Schulte-Hostedde**. 2007. Evidence for a large impact by feral mink within continental North America. *Biological Conservation*. 139: 12-18.
  26. Fairn, E.R., Y. Alarie and **A.I. Schulte-Hostedde**. 2007. Sexual size and shape dimorphism in *Dineutus nigrior* Roberts (Coleoptera: Gyrinidae). *Coleopterist Bulletin*. 61: 113-120
  25. **Schulte-Hostedde, A.I.** 2007. Sexual size dimorphism in rodents. In: *Rodent societies: ecological and evolutionary approaches*. Edited by J.O. Wolff and P.W. Sherman. Chicago University Press, Chicago.
  24. Fairn, E.R., **A.I. Schulte-Hostedde**, and Y. Alarie. 2007. Sexual selection on accessory glands, genitalia, and protarsal pads in the whirligig beetle *Dineutus nigrior* (Coleoptera: Gyrinidae). *Ethology*. 113: 257-266.
  23. Casselman, S.J., **Schulte-Hostedde, A.I.**, and R. Montgomerie. 2006. Sperm quality influences fertilization success in walleye (*Sander vitreus*). *Canadian Journal of Fisheries and Aquatic Sciences*. 63: 2119-2125.
  22. **Schulte-Hostedde, A.I.**, and R. Montgomerie. 2006. Intraspecific variation in ejaculate traits of northern watersnakes (*Nerodia sipedon*). *Journal of Zoology (Lond.)*. 270:147-152.
  21. **Schulte-Hostedde, A.I.**, and Y. Alarie. 2006. Morphological patterns of sexual selection in the diving beetle *Graphoderus liberus*. *Evolutionary Ecology Research*. 8: 891-901.
  20. **Schulte-Hostedde, A.I.**, and G. Burness. 2005. Fertilization dynamics of sperm from different male mating tactics in bluegill (*Lepomis macrochirus*). *Canadian Journal of Zoology*. 83: 1638-1642.
  19. Perez-Orella, C., and **A.I. Schulte-Hostedde**. 2005. Effects of sex and body size on ectoparasite loads in the northern flying squirrel (*Glaucomys sabrinus*). *Canadian Journal of Zoology*. 83: 1381-1385.
  18. **Schulte-Hostedde, A.I.**, J.S. Millar, and G.J. Hickling. 2005. Condition dependence of testis size in small mammals. *Evolutionary Ecology Research*. 7: 143-149.
  17. **Schulte-Hostedde, A.I.**, B. Zinner, J.S. Millar, and G.J. Hickling. 2005. Restitution of mass-size residuals: validating body condition indices. *Ecology*. 86: 155-163.
  16. Casselman, S.J., and **A.I. Schulte-Hostedde**. 2004. Reproductive roles predict sexual dimorphism in internal and external morphology of lake whitefish, *Coregonus clupeaformis*. *Ecology of Freshwater Fish*. 13: 217-222.
  15. Burness, G., S.J. Casselman, **A.I. Schulte-Hostedde**, C.D. Moyes, and R. Montgomerie. 2004. Sperm swimming speed and energetics vary with sperm competition risk in bluegill (*Lepomis macrochirus*). *Behavioural Ecology and Sociobiology*. 56: 65-70.
  14. **Schulte-Hostedde, A.I.**, J.S. Millar, and H.L. Gibbs. 2004. Sexual selection and mating patterns in a mammal with female-biased sexual size dimorphism. *Behavioral Ecology*. 15: 351-356.

13. **Schulte-Hostedde, A.I.**, and J.S. Millar. 2004. Intraspecific variation in testis size and sperm length in the yellow-pine chipmunk (*Tamias amoenus*): implications for sperm competition and reproductive success. *Behavioral Ecology and Sociobiology*. 55: 272-277.
12. Barker, J.M., R. Boonstra and **A.I. Schulte-Hostedde**. 2003. Age determination in yellow-pine chipmunks (*Tamias amoenus*): a comparison of eye lens masses and femur and mandible sections. *Canadian Journal of Zoology*. 81: 1774-1779.
11. **Schulte-Hostedde, A.I.**, J.S. Millar, and G.J. Hickling. 2003. Intraspecific variation in testis size of small mammals: implications for muscle mass. *Canadian Journal of Zoology*. 81: 591-595.
10. **Schulte-Hostedde, A.I.**, and J.S. Millar. 2002. Effects of body size and mass on running speed of male yellow-pine chipmunks (*Tamias amoenus*). *Canadian Journal of Zoology*. 80: 1584-1587.
9. **Schulte-Hostedde, A.I.**, J.S. Millar, and H.L. Gibbs. 2002. Female-biased sexual size dimorphism in the yellow-pine chipmunk (*Tamias amoenus*): sex-specific patterns of annual reproductive success and survival. *Evolution*. 56: 2519-2529.
8. **Schulte-Hostedde, A.I.**, and J.S. Millar. 2002. "Little chipmunk" syndrome?: Male body size and dominance in captive yellow-pine chipmunks (*Tamias amoenus*). *Ethology*. 108: 127-137.
7. **Schulte-Hostedde, A.I.**, J.S. Millar, and G.J. Hickling. 2001. Evaluating body condition in small mammals. *Canadian Journal of Zoology*. 79: 1021-1029.
6. **Schulte-Hostedde, A.I.**, J.S. Millar, and G.J. Hickling. 2001. Sexual dimorphism in body composition of small mammals. *Canadian Journal of Zoology*. 79: 1016-1020.
5. **Schulte-Hostedde, A.I.**, H.L. Gibbs, and J.S. Millar. 2001. Microgeographic genetic structure in the yellow-pine chipmunk (*Tamias amoenus*). *Molecular Ecology*. 10: 1625-1632.
4. **Schulte-Hostedde, A.I.**, H.L. Gibbs, and J.S. Millar. 2000. Microsatellite DNA loci suitable for parentage analysis in the yellow-pine chipmunk (*Tamias amoenus*). *Molecular Ecology*. 9: 2180-2181.
3. **Schulte-Hostedde, A.I.**, and J.S. Millar. 2000. Measuring sexual size dimorphism in the yellow-pine chipmunk (*Tamias amoenus*). *Canadian Journal of Zoology*. 78: 728-733.
2. Roche, B.E., **A.I. Schulte-Hostedde**, and R.J. Brooks. 1999. Route choice by deer mice (*Peromyscus maniculatus*): reducing the risk of auditory detection by predators. *American Midland Naturalist*. 142: 194-197.
1. **Schulte-Hostedde, A.I.**, and R.J. Brooks. 1997. An experimental test of habitat selection by rodents of Algonquin Park. *Canadian Journal of Zoology*. 75: 1989-1993.

### **Published Abstracts and Invited Seminars (2001-present)**

- A.I. Schulte-Hostedde**, Gunn, K., G. Mastro Monaco, K. Goodrowe, and W. Waddell. 2011. Effects of inbreeding on sperm morphology of the red wolf (*Canis rufus*). Biology of Sperm Meeting, Sheffield, U.K. (*poster*)

- Haring, M., D. Edwards, **A.I. Schulte-Hostedde**, A. and G. Gilchrist. 2011. The effects of mating systems on offspring investment. Canadian Society for Ecology and Evolution, Banff, Canada. (*poster*)
- Gunn, K., **A.I. Schulte-Hostedde**, G. Mastromonaco, K. Goodrowe, and W. Waddell. 2011. Effects of inbreeding on sperm morphology of the red wolf (*Canis rufus*). Canadian Society for Ecology and Evolution, Banff, Canada. (*poster*)
- Schulte-Hostedde, A.I.**, H. Filion, and J. Bowman. 2011. Baculum variation in wild and domestic American mink: implications for introgression. Canadian Society for Ecology and Evolution, Banff, Canada.
- Gooderham, K.L., S. Laurence, A. Bewick, A. and **A.I. Schulte-Hostedde**, 2011. Impacts of endoparasites on host reproductive success. Canadian Society for Ecology and Evolution, Banff, Canada.
- Schulte-Hostedde, A.I. 2011. Evolutionary ecology and sexual selection in mammals. Department of Biological Sciences, University of Windsor.
- Lesbarrères, D., and **A.I. Schulte-Hostedde**. 2010. The bigger the better? Allometry and sexually dimorphic traits in anurans. Canadian Amphibian and Reptile Conservation Network. Wolfville, Nova Scotia, Canada.
- Bowman, J., K.B. Beauclerc, L.A Nituch, and **A.I. Schulte-Hostedde**. 2010. Effects of mink farms on wild mink in North America. Wildlife Society Meetings, Utah, United States.
- Beauclerc, K., J Bowman, and **A.I. Schulte-Hostedde**. 2010. Impacts of gene flow from domestic to wild American mink (*Neovison vison*) populations in Canada. Canadian Society for Ecology and Evolution, Quebec, Canada..
- Bowman, J., K. Beauclerc, J. Duval, L Nituch, and **A.I. Schulte-Hostedde**. 2010. Phenotypic variation in domestic-wild hybrid mink. Canadian Society for Ecology and Evolution, Quebec, Canada..
- Laurence, S., and **A.I. Schulte-Hostedde**. 2010. Effects of landscape features on microgeographic genetic structure of muskrat. Canadian Society for Ecology and Evolution, Quebec, Canada..
- Schulte-Hostedde, A.I.**, K. Middell and J. Bowman. 2010. Sexual selection and baculum morphology in fishers and martens. Canadian Society for Ecology and Evolution, Quebec, Canada..
- Gooderham, K., and **A.I. Schulte-Hostedde**. 2010. Parasites and progeny: the effects of parasites on host condition and reproductive success. Canadian Society for Ecology and Evolution, Quebec, Canada..
- Schulte-Hostedde, A.I.** 2009. Sex, sperm, and genitalia: post-copulatory selection and phenotypic quality. Department of Biological Sciences, Université du Québec à Montréal (UQAM).
- Patterson, L. and **A.I. Schulte-Hostedde**. 2009. Personality and reproductive success in male Eastern chipmunks (*Tamias striatus*). SQEBC, Trois-Rivieres, QC
- Schulte-Hostedde, A.I.** 2009. Sexual selection in mammals: theory and conservation applications. Toronto Zoo, Toronto, Canada.(*invited talk*)

- Schulte-Hostedde, A.I.** 2009. Climatic determinants of sexual size dimorphism in the chipmunks (*Tamias* spp). International Mammalogy Congress. Mendoza, Argentina (*invited symposium talk*).
- Laurence, S. D.W. Coltman, J.C. Gorrell and **A.I. Schulte-Hostedde**. 2009. Genetic structure and subspecific status of muskrat, *Ondatra zibethicus*, across Canada. Canadian Society for Ecology and Evolution. Halifax, Nova Scotia. (*talk*)
- Patterson, L. and **A.I. Schulte-Hostedde**. 2009. Personality and reproductive success in male Eastern chipmunks (*Tamias striatus*). Canadian Society for Ecology and Evolution. Halifax, Nova Scotia. (*talk*)
- Edwards, D.B., E.H. Chin, H.G. Gilchrist and **A.I. Schulte-Hostedde**. 2009. Incubation, nest attentiveness and the adreno-cortical stress response in two species of Arctic breeding shorebird. Canadian Society for Ecology and Evolution. Halifax, Nova Scotia. (*talk*)
- Nituch, L.A., J. Bowman, **A.I. Schulte-Hostedde** and P.J. Wilson. 2009. Assessing risks of Aleutian disease transmission from mink farms to wild American mink (*Neovison vison*) populations. Canadian Society for Ecology and Evolution. Halifax, Nova Scotia.
- Schulte-Hostedde, A.I.** and S. Elsasser. 2009. Body condition and parasite richness predict spleen mass in American mink (*Neovison vison*). Canadian Society for Ecology and Evolution. Halifax, Nova Scotia. (*talk*)
- Andrews, C.K., S. Laurence and **A.I. Schulte-Hostedde**. 2009. Reproductive success is related to baculum size in muskrats. Canadian Society for Ecology and Evolution. Halifax, Nova Scotia. (*poster*)
- Kidd, A.G., J. Bowman, P.A. Martin, T.V. McDaniel and **A.I. Schulte-Hostedde**. Mink ranch escapees may introduce bias in studies of contaminant body burden in wild populations. Canadian Society for Ecology and Evolution. Halifax, Nova Scotia. (*poster*)
- Schulte-Hostedde, A.I.** 2008. Sex, sperm, and genitalia: post-copulatory selection and phenotypic quality. Department of Biology, McMaster University. EEB Seminar series.
- Martinez-Garcia, M., and **A.I. Schulte-Hostedde**. 2008. Reproduction capacity of fathead minnow (*Pimephales promelas*) in two populations from northern Ontario, Canada. 8th. International Fish Biology Conference. Portland, Oregon, USA.
- Schulte-Hostedde, A.I.**, and V. Bonanno. 2008. Phenotypic correlates of ejaculate investment in red squirrels. Canadian Society for Ecology and Evolution. Vancouver, Canada.
- Elsasser, S.C., R. Floyd, P.D.N. Hebert, and **A.I. Schulte-Hostedde**. 2008. Species identification of North American guinea worms (Nematoda: Dracunculus) with DNA barcoding Canadian Barcode of Life Network 2008 Scientific Symposium. Toronto, Ontario.
- Schulte-Hostedde, A.I.** 2007. Sex, sperm, and genitalia: phenotypic quality and post-copulatory selection. Department of Biology, Trent University. Ecology and Evolution seminar series.
- Schulte-Hostedde, A.I.** 2007. Sex, sperm, and genitalia: phenotypic quality and post-copulatory selection. Department of Biology, Wilfrid Laurier University.

- Litzgus, J.D., F. Bolton and **A.I. Schulte-Hostedde**. 2007. Reproductive output depends on body condition in spotted turtles (*Clemmys guttata*). Canadian Amphibian and Reptile Conservation Network (CARCNet) meeting, Queens University, Kingston, Ontario.
- Schulte-Hostedde, A.I.**, T. Dannell, and G.E. Morgan. 2007. Intrinsic and extrinsic factors affect geographic variation in ejaculate investment in walleye (*Sander vitreus*). Biology of Spermatozoa 9. Sheffield, UK. (*Poster*)
- Schulte-Hostedde, A.I.**, and D.E. Tasikas. Baculum variation and allometry in the muskrat (*Ondatra zibethicus*): a case for sexual selection. Animal Behavior Society. Burlington, Vermont. (*spoken paper*)
- Bonanno, V. and **A.I. Schulte-Hostedde**. 2007. Intraspecific variation in ejaculate investment as a response to sperm competition in the red squirrel (*Tamiasciurus hudsonicus*). Animal Behavior Society. Burlington, Vermont. (*spoken paper*)
- Bonanno, V. and **A.I. Schulte-Hostedde**. 2007. Intraspecific variation in ejaculate investment as a response to sperm competition in the red squirrel (*Tamiasciurus hudsonicus*). 1<sup>st</sup> annual Canadian Society for Ecology and Evolution, University of Toronto
- Kidd, A., J. Bowman, and **A.I. Schulte-Hostedde**. 2007. Genetic impacts of ranch mink on wild mink populations. 1<sup>st</sup> annual Canadian Society for Ecology and Evolution, University of Toronto (*Poster*).
- Schulte-Hostedde, A.I.** 2007. Sexual selection and ejaculate investment: empirical tests of theory. Department of Biological Sciences, Brock University. (*Invited by Graduate Student Association*)
- Schulte-Hostedde, A.I.** 2007. Sexual selection and ejaculate investment: empirical tests of theory. Department of Life Sciences, University of Toronto - Scarborough.
- Kidd, A., J. Bowman, and **A.I. Schulte-Hostedde**. 2007. Genetic impacts of ranch mink on wild mink populations. Evolutionary Change in Human-altered Environments :An International Summit. University of California - Los Angeles. (*Poster*)
- Fairn, E.R., Y. Alarie and **A.I. Schulte-Hostedde**. 2006. Sexual selection on accessory glands, genitalia, and protarsal pads in the whirligig beetle *Dineutus nigrior* Roberts (Coleoptera: Gyrinidae). Annual Meeting of the Entomological Society of America.. Indianapolis, U.S.A. (*Poster*).
- Gorrell, J.C., and **A.I. Schulte-Hostedde**. 2006. Are individuals in good condition “healthy”? A test using North American red squirrels (*Tamiasciurus hudsonicus*). International Society for Behavioural Ecology. Tours, France (*Poster*)
- Schulte-Hostedde, A.I.**, T. Dannell, and G.E. Morgan. 2006. Intrinsic and extrinsic factors affect geographic variation in ejaculate investment in walleye (*Sander vitreus*). International Society for Behavioural Ecology. Tours, France (*Poster*)
- Gorrell, J.C., and **A.I. Schulte-Hostedde**. 2006. Testosterone effects on individual health in red squirrels. Canadian Society of Zoologists. University of Alberta. Edmonton, Alta. (*spoken paper*)
- Schulte-Hostedde, A.I.**, T. Dannell, and G.E. Morgan. 2006. Intrinsic and extrinsic factors affect geographic variation in ejaculate investment in walleye (*Sander vitreus*). Ontario

- Ecology and Ethology Colloquium. Brock University. St. Catharines, Ont. (*spoken paper*)
- Schulte-Hostedde, A.I.** 2006. Inside, Outside: Intrinsic and extrinsic influences on phenotypic variation and fitness. Ecology, Evolutionary Biology and Behavior Program, Michigan State University. East Lansing, MI.
- Schulte-Hostedde, A.I.** 2006. Inside, Outside: Intrinsic and extrinsic influences on phenotypic variation and fitness. Department of Biology, University of Western Ontario. London, Ont.
- Schank, C., and **A.I. Schulte-Hostedde**. 2005. Condition dependence of sexually dimorphic traits in male green frogs (*Rana clamitans*). Joint meeting of Ichthyologists and Herpetologists. Tampa, Florida. (*Spoken paper*).
- Schulte-Hostedde, A.I.** 2005. Climatic influences on the evolution of sexual size dimorphism in the chipmunks (*Tamias* spp). Evolution 2005. Fairbanks, Alaska. (*Spoken paper*).
- Schulte-Hostedde, A.I.** 2005. Climatic determinants of sexual size dimorphism in the chipmunks (*Tamias* spp). Ontario Ecology and Ethology Colloquium. Ottawa, Ont. (*Spoken paper*).
- Johnston, T.A., M.D. Moles, **A.I. Schulte-Hostedde**, T. Herra, and W.C. Leggett. 2005. The relationships between body condition indices and the lipid and moisture contents of two freshwater fishes. The Canadian Conference for Fisheries Research. Windsor, Ont. (*Spoken paper*).
- Schulte-Hostedde, A.I.** 2003. Sex, size, and sperm: the secret life of the yellow-pine chipmunk. Department of Biological Sciences, University of Alberta. Edmonton, Alta.
- Schulte-Hostedde, A.I.** 2003. A sperm's tale: causes and consequences of variation in ejaculate quality. Department of Biology, University of Toronto-Mississauga. Toronto, Ont.
- Schulte-Hostedde, A.I.** 2003. Fitness consequences of phenotypic traits: from chipmunks to sperm and beyond. Department of Biology, University of Ottawa. Ottawa, Ont.
- Schulte-Hostedde, A.I.** 2003. Fitness consequences of phenotypic traits: from chipmunks to sperm and beyond. Department of Biology, Laurentian University. Sudbury, Ont.
- Schulte-Hostedde, A.I.** 2003. Fitness consequences of phenotypic variation: from chipmunks to sperm and beyond. Department of Biology, City College of New York. New York, NY.
- Schulte-Hostedde, A.I.** 2003. A tail of two phenotypes: sperm, spleens and bluegill. Ecology, Evolution and Behaviour seminar series, Queens University. Kingston, Ont.
- Burness, G.P., **A.I. Schulte-Hostedde**, S.J. Casselman, C.D. Moyes, and R. Montgomerie. 2003. Do sneaker male bluegill sunfish produce physiologically superior sperm? Society for Integrative and Comparative Biology. Toronto, Ont. (*Poster*).
- Schulte-Hostedde, A.I.**, J.S. Millar, and H.L. Gibbs. 2002. The role of male reproductive success in the evolution of female-biased sexual size dimorphism of the yellow-pine chipmunk (*Tamias amoenus*). International Society for Behavioral Ecology. Montreal, Que. (*Spoken paper*).

## **Teaching**

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Courses taught (2003-2008) Laurentian University:

- Biol 2705E - Comparative Chordate Anatomy (2 term course)
- Biol 2706E - Vertebrate Form and Function
- Biol 2727E - Introduction to Vertebrates
- Biol 3006E - Evolutionary Biology
- Biol 5066 E - Selected Topics in Evolutionary Biology I (Graduate course)
- Biol 6056 E - Seminar in Boreal Ecology

## **Student Supervision**

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*Current graduate students:*

**D. Edwards** (PhD - start date May 2008) - Sex differences in immunocompetence in shorebirds.

**H. Filion** (MSc - start date Sept 2008) - Sexual selection and introgressive hybridization between wild and domestic mink.

**J. Lyons** (MSc - Start date Jan. 2012) - Anthropogenic impacts on stress and behavior in eastern chipmunks (*Tamias striatus*).

**S. Laurence** (PhD - Start date Sept. 2005) - Landscape genetics of muskrat.

*Past Post-Doctoral Fellows*

**Dr. K. Beauclerc, PhD** (Sept. 2009 - Sept 2010 ) Genetic consequences of hybridization between domestic and wild mink. (Co-supervised with J. Bowman, Ontario Ministry of Natural Resources)

*Completed graduate theses:*

**S. Elsasser** (PhD - Sept 2005 - Nov 2011). Host-parasite interactions of North American Guinea Worm (Nematoda: *Dracunculus*) and its mammalian hosts.

**K. Gooderham** (MSc - Sept 2008 - Oct 2010). Impacts of macroparasites on the fitness of North American red squirrels (*Tamiasciurus hudsonicus*).

**L. Patterson** (MSc - Sept. 2007 - Sept. 2009). Correlates of male reproductive success in the eastern chipmunk (*Tamias striatus*).

**A. Kidd** (MSc Sept. 2005 - Feb. 2008). Mink gone wild: hybridization between escaped farm and wild American mink (*Neovison vison*). (Co-supervised by J. Bowman, Ontario Ministry of Natural Resources/Trent University)

**V. Bonnano** (MSc Sept. 2005-Jan. 2008). Intraspecific variation in ejaculate investment as a response to sperm competition in the North American red squirrel (*Tamiasciurus hudsonicus*).

**E. Fairn** (MSc, Sept. 2005-June 2007 - Sexual selection in water beetles (Co-supervised by Dr. Y. Alarie, Laurentian University).

**J. Gorrell** (MSc, Sept. 2004-Dec. 2006) - Individual variation in parasitism, testosterone, and indices of health in North American red squirrels.

*Completed undergraduate theses:*

**M. Lawrence** (2011/12) - Sperm morphometry of purebred and mixed breed domestic dogs

**K. Gunn** (2011/12) - Validation of ELISA method for hair cortisol evaluation in the eastern chipmunk (*Tamias striatus*) and Laboratory Rat

**M. Haring** (2011/12) - The influence of mating systems on initial maternal investment in Arctic shorebirds.

**K. Galloway** (2011/12) - Experimental effects of ACTH challenge on endoparasite loads in eastern chipmunks.

**M. Thompson** - (2009/10) - Prevalence of the bacterium *Coxiella burnetii* in small mammal species of Algonquin Park.

**C. Andrews** (2008/9) - Male baculum size and reproductive success in muskrats.

**K-A Ward** (2008/9) - Female mate choice in eastern chipmunks.

**D. Langlois** (2007/8) - Male reproductive investment and environmental stress in fathead minnows (co-supervised with M. Martinez)

**D. Tasikas** (2006/7) - Baculum variation and allometry in the muskrat (*Ondatra zibethicus*): a case for sexual selection.

**S. Kuula** (2006/7) - Variation in mating success due to secondary sexual traits in American toads, *Bufo americanus*. (co-supervised with D. Lesbarrères).

**M. Zanuttig** (2006/7) - Sperm competition and sperm morphology traits in the predaceous diving beetle *Graphoderus liberus* (Say) (Coleoptera: Dytiscidae) (co-supervised with Y. Alarie).

**A. Bewick** (2006/7)- Population structure of muskrat in Ontario using mtDNA (co-supervised with T. Merritt, Chemistry and Biochemistry).

**K. Johnson** (2006/7) - The effect of sport involvement, status and attractiveness on female mate selection (co-supervised with M. Eys, Human Kinetics)

**T. Dannell** (2005/6) - Geographic variation in testis size in walleye (*Sander vitreus*).

**J. Luxemburger** (2005/6) - The effects of ectoparasites on hematocrit in red squirrels (*Tamiasciurus hudsonicus*).

**F. Bolton** (2005/6) - Condition-dependence of reproductive output in spotted turtles. (co-supervised with J. Litzgus)

**C. Schank** (2004/5) - Condition dependence of sexually dimorphic traits in male green frogs

**C. Perez** (2004/5) - Sex differences in ectoparasite loads and effects on body condition in northern flying squirrels.

**E. Carruthers** (2004/5) - Differences in condition of green frogs between a golf course and control sites.

## **Institutional Service**

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- Academic Plan Committee, Department of Biology - Member (2010, 2011-present)
- Research, Development and Creativity (RDC) Council - Member (2008-2010, 2011-present)
- ACAPLAN (Academic Planning Committee), Laurentian University (2009- 2010, 2011-present)
- Chair/Co-chair - Biology Curriculum Committee (2008)
- Member (LUFA rep.), Appointments Review Committee, Laurentian University (2006-7)

- Member, PhD Boreal Ecology Oversight Committee (2007 - present)
- Chair, Animal Care Committee. (2005 - 2008)
- Member, MSc Oversight Committee, Department of Biology, Laurentian University. (2005-present)
- Member, Workload Redistribution Committee, Department of Biology, Laurentian University. (2005-2006)
- Member, Web Committee, Department of Biology, Laurentian University. (2005-present)
- Member, Animal Care Committee. (2005)
- LUFA (Laurentian University Faculty Association) Bargaining Committee. (2005)
- Chair selection committee, Department of Biology, Laurentian University. (2004-5)
- Seminar Co-ordinator, Department of Biology, Laurentian University. (2004-5)
- Zoology option co-ordinator, Department of Biology, Laurentian University (2003-2008)
- Student awards committee, Department of Biology, Laurentian University. NSERC graduate, NSERC undergraduate, and internal awards committees (2003-4)

## **Professional Service**

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- Associate Editor - *Behavioural Ecology and Sociobiology* (December 2005 - present)
- Advisory Editorial Board member - *Ideas in Ecology and Evolution* (Dec 2008 - present)
- Journal Referee (since 2000) - *Écoscience, Canadian Journal of Forest Research, Behavioral Ecology, Behavioral Ecology and Sociobiology, Canadian Journal of Zoology, Journal of Mammalogy, Journal of Ethology, Journal of Applied Ecology, Molecular Ecology, Journal of Wildlife Management, Quarterly Review of Biology, Animal Behavior, Oecologia, Journal of Animal Ecology, American Naturalist, Proceedings of the Royal Society London B, Biology Letters, Ecology, Acta Theriologica, Canadian Journal of Fisheries and Aquatic Research, PLOS ONE, Evolution, Human Nature*
- External Examiner - *Trent University* 2005 (1 MSc defense), 2009 (2 MSc defenses)
- Grant Reviewer - *Swiss National Science Foundation* (2005), *Natural Sciences and Engineering Research Council - Discovery Grant Program* (2 - 2007, 3 - 2009, 3- 2010), *Canadian Foundation for Innovation* (2010).
- *Canadian Society for Ecology and Evolution* representative - Laurentian University (2007 - current)
- *Canadian Society for Ecology and Evolution* representative - Canadian Council for Animal Care (2009-current). Chair - Guidelines Committee, Member - Board of Directors (2011-present)
- Biology Advisory Committee member - Algoma University (2009).
- Workshop co-lead (with M. Forbes, F Phelan, and A. Weis) - *The Future of Scientific Field Stations In Canada*. Sponsored by the Canadian Institute for Ecology and Evolution.
- Executive member - *Canadian Field Research Network (CFRNet)* (2010 - present)