

KEVIN A. JUDGE

Curriculum Vitae

Department of Biological Sciences
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ACADEMIC EMPLOYMENT, EDUCATION AND TRAINING

Assistant Professor (Continuing Status), Biological Sciences, MacEwan University (2015 – Present)

Assistant Professor (Probationary Status), Biological Sciences, MacEwan University (2013 – 2015)

Instructor (Probationary Status), Biological Sciences, MacEwan University (2012 – 2013)

Postdoctoral Fellow, Biological Sciences, University of Lethbridge (2009-2012)

Advisor: William H. Cade

Postdoctoral Fellow, Biology, University of Toronto Mississauga (2008 – 2009)

Advisors: Darryl T. Gwynne and Glenn K. Morris

PhD, Zoology, University of Toronto (June 2008)

“Survival, song and sexual selection”

Thesis Advisor: Darryl T. Gwynne

MSc, Zoology, University of Guelph (September 1999)

“Chorus participation by male bullfrogs, *Rana catesbeiana*: a test of the energetic constraint hypothesis”

Thesis Advisor: Ronald J. Brooks

BSc, Biological Sciences, University of Guelph (April 1997)

“An assessment of the validity of skeletochronology in the bullfrog, *Rana catesbeiana*”

Thesis Advisor: Ronald J. Brooks

TEACHING INTERESTS

Entomology, Invertebrate Zoology, Animal Behaviour, Introductory Biology, Ecology, Evolution, Environmental Biology.

RESEARCH INTERESTS

Sexual Selection, Behavioural Ecology, Interactions between Ecology and Selection, Evolutionary Responses to Anthropogenic Disturbance, Sexual Conflict, Maternal Effects on Offspring Fitness, Geographic Variation in Life History Traits.

CURRENT TEACHING

BIOL 103: Humans and Their Environment, MacEwan U.

- Teach students about how human activities affect the biosphere.

BIOL 108: Organisms in Their Environment, MacEwan U.

- Teach students the theoretical underpinnings of biology, as well as a survey of the diversity of life on Earth.

BIOL 365: Tropical Rainforest Ecology, MacEwan U.

- Teach students the importance of tropical rainforest ecosystems, particularly focusing on the western Amazon rainforest in Ecuador.

BIOL 422: Methods in Ecology and Evolution, MacEwan U.

- Teach students the fundamental skills and techniques used in ecological and evolutionary research.

BIOL 495: Special Topics: The Ecology of Mating Systems, MacEwan U.

- Teach students the theory behind sexual selection and sexual differences, and illustrate the diverse ways in which mating systems are influenced by ecology.

BIOL 498: Independent Research, MacEwan U.

- Mentor individual students through all phases of an independent research project, including a written proposal, a formal proposal presentation, data collection and analysis, a final presentation and a written final report.

ZOOL 425: Introductory Entomology, MacEwan U.

- Teach students the fundamentals of entomology. Lecture topics included: diversity, evolution, development, biogeography, predation, herbivory, coevolution, parental care, integrated pest management, forensic entomology, among many others.
- Supervise a weekly laboratory where students learned proper collection, preservation and identification techniques. Students also conduct several experiments examining insect behaviour.

STUDENT MENTORSHIP

Current Students

- Terrence Chang (PhD Student Advisory Committee Member, U. of Toronto Scarborough, 2014 – Present)
 - Thesis title: “The metabolic costs of singing and fighting in *Cyphoderris monstrosa*” (main advisor Andrew Mason, U. of Toronto Scarborough)
- Jordan Lesyk (BIOL 498 Independent Research, MacEwan U., Sept. 2017)
 - Project title: “Behavioural effects of eugregarines on hissing cockroaches” (co-supervised with Mike Stock)

Past Students

- Julie Mitchell (BIOL 498 Independent Research, MacEwan U., Jan. 2018)
 - Project title: “Parasites in Madagascar hissing cockroaches” (co-supervised with Mike Stock)
- Ashley Easingwood (BIOL 498 Independent Research, MacEwan U., Sept. 2016)
 - Project title: “Why did the cricket cross the stream? Swimming behaviour in the sand field cricket, *Gryllus firmus*”

- Esperance Madera (BIOL 498 Independent Research, MacEwan U., Jan. 2016)
 - Project title: “Sexual dimorphism in the badlands cricket, *Gryllus personatus*”
 - Esperance is now enrolled in medical school at the Medical School of the Americas
- Tiffany Maslyk (BIOL 498 Independent Research, MacEwan U., Sept. 2015)
 - Project title: “Assaying immunity to gregarine parasites in *Gryllus ovisopis*” (co-supervised with Mike Stock)
- Heather Stevenson (BIOL 498 Independent Research, MacEwan U., Sept. 2015)
 - Project title: “The development of weaponry in a field cricket” (co-supervised with Kevin Friesen)
- Jacob Thalen (BIOL 498 Independent Research, MacEwan U., Sept. 2014)
 - Project title: “Weaponry in hatchling North American field crickets”
 - Jacob has submitted his final research paper to be published in the MacEwan University Student eJournal (a peer-reviewed journal focused on publishing exceptional student work).
- Marcus McCann (BIOL 498 Independent Research, MacEwan U., Sept. 2014)
 - Project title: “Eugregarines in *Gryllus firmus*: the host-parasite relationship and the costs of infection” (co-supervised with Mike Stock)
- Ashley Shaw (BIOL 498 Independent Research, MacEwan U., Sept. 2014)
 - Project title: “Sex differences in the immune response of *Gryllus firmus*” (co-supervised with Mike Stock)
 - Ashley is now doing an MES with Toddi Steelman (Environment and Sustainability, U. of Saskatchewan)
- Peter Whyte (BIOL 498 Independent Research, MacEwan U., Jan. 2014)
 - Project title: “Aggression and weaponry in the Japanese burrowing cricket”
 - Peter is now working for the provincial government of Alberta as a GIS technician.
- Lindsey Horosko (BIOL 498 Independent Research, MacEwan U., Sept. 2013)
 - Project title: “Hybridization in sexually cannibalistic insects (*Cyphoderris* spp.)”
- Stephanie Ibsen (BIOL 498 Independent Research, MacEwan U., Jan. 2013)
 - Project title: “Measurement of sexual selection on males in wild populations of a sexually cannibalistic insect, *Cyphoderris monstrosa* (Orthoptera, Prophalangopsidae)”
 - Stephanie is now doing an MSc with Scott Chang (Renewable Resources, U. of Alberta)
- Shawna Ohlmann (BIOL 498 Independent Research, MacEwan U., Jan. 2013)
 - Project title: “Male-male competition in the taciturn wood cricket, *Gryllus ovisopis* (Orthoptera, Gryllidae)”
 - Shawna is now working as a technician in the Dept. of Biological Sciences, MacEwan U.
- Geoff Ower (MSc Student Advisory Committee Member, Illinois State U., 2009 – 2012)
 - Thesis title: “Attractiveness of male song in the sagebrush cricket, *Cyphoderris strepitans*” (main advisor Scott Sakaluk, Illinois State U.)
 - Geoff is now doing his PhD at Illinois State U.
- Briana Smith (BIOL 3990 Independent Study in Animal Behaviour, U. of Lethbridge, Jan. 2011)

- Project title: “The developmental effects of hatchling aggression on adult body size in the spring field cricket (*Gryllus veletis*)” (co-supervised with Bill Cade and Rob Laird)
- Kevin Kwok (BIOL 4990 Independent Study in Animal Behaviour, U. of Lethbridge, Sept. 2010)
 - Project title: “The effects of polyandry on reproductive senescence in the yellow mealworm beetle, *Tenebrio molitor*” (co-supervised with Bill Cade)
 - Kevin completed an MSc with Rob Laird (Biological Sciences, U. of Lethbridge)
- Jenna Woodman (BIOL 3990 Independent Study in Animal Behaviour, U. of Lethbridge, Jan. 2010)
 - Thesis title: “Male-male competition and female choice in the Pacific field cricket, *Teleogryllus oceanicus*” (co-supervised with Bill Cade)
 - Winner of the Luke Stebbins Prize for Undergraduate Research Achievement
 - Jenna is now a veterinarian in Lethbridge.
- Edyta Piascik (BIO481 Biology Research Project Course, U. of T. Mississauga, 2008-9)
 - Thesis title: “Polyandry and tibial spur chewing in the Carolina ground cricket, *Eunemobius carolinus*” (co-supervised with Darryl Gwynne)
 - Edyta’s thesis is published in *Canadian Journal of Zoology* (see Piascik et al. 2010)
 - Edyta completed an MSc with Wayne Maddison (Zoology, U. of British Columbia).
- Murray McConnell (BIO481 Biology Research Project Course, U. of T. Mississauga, 2007-8)
 - Thesis title: “You are what you eat: condition dependence of ejaculate size in the yellow mealworm beetle *Tenebrio molitor*” (supervised alone)
 - Murray’s thesis is published in *Behavioral Ecology and Sociobiology* (see McConnell and Judge 2018)
 - Murray completed an MSc with Mark Fitzpatrick (Biological Sciences, U. of T. Scarborough).
- Janice Ting (BIO481 Biology Research Project Course, U. of T. Mississauga, 2006-7)
 - Thesis title: “Calling song alone induces differential allocation by female field crickets”(co-supervised with Darryl Gwynne)
 - Janice’s thesis is published in *Journal of Orthoptera Research* (see Ting et al. 2017)
 - After completing her MSc with Tom Sherratt (Biology, Carleton U.), Janice completed her PhD with Asher Cutter (Ecology and Evolutionary Biology, U. of T. St. George).

TEACHING EXPERIENCE

Animal Behaviour (BIO318Y), U. of T. Mississauga (2005-6, 2006-7, 2007-8)

- Taught students the fundamentals of observing, quantifying and analyzing animal behaviour.
- Supervised the design, implementation, analysis and presentation of over 30 student independent research projects (similar in workload to an undergraduate thesis).
 - One of these projects resulted in a publication in *Canadian Journal of Zoology* (see Judge et al. 2010)
- Ran weekly labs and discussions of recent papers from the primary literature to encourage critical thinking.
- Marked student assignments and provided feedback on writing.

Ecology (BIO205F), U. of T. Mississauga (2008)

- Instructed students on ecological theory, as well as sampling methods important for quantifying species' distribution and abundance.

Diversity of Organisms (BIO153S), U. of T. Mississauga (2005, 8)

- Introduced students to the amazing variety of life and encouraged students to apply Darwinian thinking to try to explain the diversity of form in nature.

Introduction to Evolution and Evolutionary Genetics (BIO152F), U. of T. Mississauga (2003, 4, 7)

- Taught students the basic features of evolutionary theory: natural selection, sexual selection, genetic drift, gene flow, Hardy-Weinberg equilibrium.

Ecological Methods (BIOL*4110), U. of Guelph (1998)

- Consulted with students on the design and implementation of field research projects.

Mammalogy (ZOO*4280), U. of Guelph (1998)

- Demonstrated material from the U. of Guelph's large collection of mammals and urged students to link cranial and dental form to possible function

LECTURING EXPERIENCE

Population Biology (BIOL3850A), U. of Lethbridge

- Research Lecture title: Sexual selection and the economics of mating in a sexually cannibalistic insect. (November 2010)
- Lecture title: Sexual selection. (November 2009)

Animal Behaviour (BIO318Y), U. of T. Mississauga

- Lecture 1 title: Ecology and sexual selection. (January 2008)
- Lecture 2 title: Sensory exploitation and sexual conflict. (January 2008)
- Research Lecture title: Survival vs ornaments in field crickets. (April 2007)

Introduction to Evolution and Evolutionary Genetics (BIO152F), U. of T. Mississauga

- Lecture title: On male-male aggression in crickets. (September 2006, 2007, 2008)

Population Ecology (BIOL*3110), U. of Guelph

- Research Lecture title: Population size estimators and mark-recapture: a case study of bullfrogs in Algonquin Provincial Park. (February 2000)

SCHOLARSHIPS, AWARDS AND GRANTS

- NSERC Discovery Grant (\$140,000; 2017-2022)
- MacEwan U. Project Fund (\$7000; 2015)
- MacEwan U. Dissemination Grant (\$3500; 2015)
- MacEwan U. Research, Scholarly Activity and Creative Achievement Fund (\$6998; 2014)
- MacEwan U. Research, Scholarly Activity and Creative Achievement Fund (\$6480; 2013)
- MacEwan U. Arts and Science Research Fund (\$4500; 2012-2013)
- Natural Sciences and Engineering Research Council of Canada Industrial R&D Fellowship (pre-approved: declined)
- Ramsay Wright Scholarship in Zoology, for top PhD thesis in the department (\$2,000; 2004-2005)
- Carl E. Atwood Graduate Award in Zoology, for excellence in the study of animal biology (PhD: \$2,920; 2003-2004)
- Orthopterists' Society Graduate Student Grant (PhD: \$1,300; 2004)
- Natural Sciences and Engineering Research Council of Canada Postgraduate Scholarship B (PhD: \$38,200; 2001-2003)

- Natural Sciences and Engineering Research Council of Canada Postgraduate Scholarship A (MSc: \$34,500; 1997-1999)
- U. of Guelph College of Biological Science Roll of Distinction, for maintaining an overall degree average of 85% or more (BSc: 4 out of 4 semesters; 1995-1997)
- U. of Guelph Dean's Honour List, for maintaining an average of 80% or more (BSc: 7 out of 8 semesters; 1993-1997)
- Canada Scholarship in Science (BSc: \$10,000; 1993-1997)

PEER-REVIEWED PUBLICATIONS (AVAILABLE UPON REQUEST)

McConnell MW*, **Judge KA**. 2018. Body size and lifespan are condition dependent in the mealworm beetle, *Tenebrio molitor*, but not sexually selected traits. *Behavioral Ecology and Sociobiology* 72: 3.

Ting JJ*, **Judge KA**, Gwynne DT. Listening to male song induces female field crickets to differentially allocate reproductive resources. *Journal of Orthoptera Research* 26: 205-211.

Judge KA, Ting JJ*, Gwynne DT. 2014. Condition dependence of female choosiness in a field cricket. *Journal of Evolutionary Biology* 27: 2529-2540.

Ower GD, **Judge KA**, Steiger S, Caron KJ*, Smith RA*, Hunt J, Sakaluk SK. 2013. Multivariate sexual selection on male song structure in wild populations of sagebrush crickets, *Cyphoderris strepitans* (Orthoptera: Haglidae). *Ecology and Evolution* 3: 3590-3603.

Bell HC, **Judge KA**, Johnson EA*, Cade WH, Pellis SM. 2012. How is a cricket like a rat? Insights from the application of cybernetics to food protective behaviour. *Animal Behaviour* 84: 843-851.

De Souza LR*, Kasumovic MM, **Judge KA**, Morris GK. 2011. Communicating male size by tremulatory vibration in a Columbian rainforest katydid, *Gnathoclitia sodalis* (Orthoptera, Tettigoniidae). *Behaviour* 148: 341-357.

Judge KA. 2011. Do male field crickets, *Gryllus pennsylvanicus*, signal their age? *Animal Behaviour* 81: 185-194.

Judge KA, De Luca PA, Morris GK. 2011. Food limitation causes female haglids to mate more often. *Canadian Journal of Zoology* 89: 992-998.

Gwynne DT, **Judge KA**, Kelly CD. 2010. Evidence for male allocation in pipefish? *Nature* 466: E11.
 – This is a Brief Communication Arising from: Paczolt KA, Jones AG. 2010. *Nature* 464: 401-404.

Judge KA. 2010. Female social experience affects the shape of sexual selection on males. *Evolutionary Ecology Research* 12: 389-402.

Judge KA+, Ting JJ*+, Schneider J*, Fitzpatrick MJ. 2010. A lover, not a fighter: mating causes male crickets to lose fights. *Behavioral Ecology and Sociobiology* 64: 1971-1979.

Judge KA, Tran K-C*, Gwynne DT. 2010. The relative effects of mating status and age on the mating behaviour of female field crickets. *Canadian Journal of Zoology* 88: 219-223.

Piasek EK*, **Judge KA**, Gwynne DT. 2010. Polyandry and tibial spur chewing in the Carolina ground cricket (*Eunemobius carolinus*). *Canadian Journal of Zoology* 88: 988-994.

Judge KA, Bonanno VL*. 2008. Male weaponry in a fighting cricket. *PLoS ONE* 3: e3980.

– Appeared as a Research Highlight in the 15 January 2009 issue of *Nature*.

Judge KA, Ting JJ*, Gwynne DT. 2008. Condition dependence of male lifespan and calling effort in a field cricket. *Evolution* 62: 868-878.

Weissman DB, **Judge KA**, Williams SC, Whitman DW, Lee VF. 2008. Small-male mating advantage in a species of Jerusalem cricket (Orthoptera: Stenopelmantinae: *Stenopelmatus*). *Journal of Orthoptera Research* 17: 321-332.

Scott RJ, **Judge KA**, Ramster K*, Noakes DLG, Beamish FWH. 2005. Interactions between naturalized exotic salmonids and reintroduced Atlantic salmon in a Lake Ontario tributary. *Ecology of Freshwater Fish* 14: 402-405.

Judge KA, Brooks RJ. 2001. Chorus participation by male bullfrogs, *Rana catesbeiana*: a test of the energetic constraint hypothesis. *Animal Behaviour* 62: 849-861.

Judge KA, Swanson SJ*, Brooks RJ. 2000. *Rana catesbeiana* (bullfrog). Female vocalization. *Herpetological Review* 31: 236-237.

* = undergraduate coauthor

+ = these authors contributed equally

ARTICLES SUBMITTED OR IN PREPARATION FOR REFEREED JOURNALS (AVAILABLE UPON REQUEST)

Bednarczuk EM, **Judge KA**, Nudds TD. Road effects on southern flying squirrels (*Glaucomys volans*). Rejected by *Ecography*, now in preparation for *Journal of Applied Ecology*.

Judge KA, Neal SR, Robson L, Lorch PD, Vinyard C, Gwynne DT. Body size, shape and sexual dimorphism in both solitary and gregarious Mormon crickets, *Anabrus simplex*. In preparation for *BMC Evolutionary Biology*.

Shirose LJ, Bishop CA, MacDonald JC, **Judge KA**, Brooks RJ. Anuran call surveys: is calling activity an index of abundance? In preparation for *Canadian Field-Naturalist*.

* = undergraduate coauthor

OTHER PUBLICATIONS (AVAILABLE UPON REQUEST)

Judge KA. 2008. Survival, song and sexual selection. PhD Dissertation, Department of Zoology, U. of Toronto, Toronto, Ontario, Canada.

Bednarczuk EM, **Judge KA**. 2002. City of Hamilton southern flying squirrel study draft final report. Report to the City of Hamilton.

Judge KA, Haviernick M. 2002. Update COSEWIC status report on grey fox (*Urocyon cinereoargenteus*). Committee on the Status of Endangered Wildlife in Canada, 40 pages.

Judge KA. 1999. Chorus participation by male bullfrogs, *Rana catesbeiana*: a test of the energetic constraint hypothesis. MSc Thesis, Department of Zoology, U. of Guelph, Guelph, Ontario, Canada.

Judge KA, MacDonald JC, Brooks RJ. 1997. Abundance and age distribution of three species of ranid amphibians in Algonquin Provincial Park, Ontario, Canada. Final Report to the Ontario Ministry of Natural Resources.

INVITED PRESENTATIONS

Judge KA. 2018. Sex, survival and song: the evolution of acoustic communication in a field cricket. Invited Symposium: Communication is Communication: Parallels Between Nonhuman and Human Animal Communication at ICLASP16: International Conference on Language & Social Psychology, University of Alberta, Edmonton, Canada.

Judge KA. 2018. The bizarre mating system of the hump-winged grig (Orthoptera, Prophalangopsidae). Department of Biological Sciences, MacEwan University, Edmonton, Canada.

Judge KA, Smith BE*, Ohlmann S*, Steckler D*, Cade WH. 2015. The evolution of weaponry in North American field crickets. Evolution of Weaponry and Contest Behaviour at Behaviour 2015: Joint meeting of the International Ethological Conference (IEC), Australasian Society for the Study of Animal Behaviour (ASSAB), Australasian Evolution Society (AES), and Australasia, New Zealand and Africa Region of Applied Ethology, Cairns, Australia

Judge KA. 2015. Sexual selection in a sexually cannibalistic insect. Department of Biological Sciences, University of Alberta, Edmonton, Canada

Judge KA, Smith BE*, Ohlmann S*, Cade WH. 2013. The evolution of weaponry and aggressive behaviour in North American field crickets (Gryllidae, *Gryllus*). Sexual Selection Symposium at the International Congress of Orthopterology, Kunming, China.
– I also gave this talk at the MacEwan Faculty Showcase in March 2014

Judge KA. 2012. Cannibal females and combative males: sexual selection and the evolution of insect mating systems. Department of Biological Sciences, MacEwan U., Edmonton, Alberta.

Judge KA. 2011. Geographic variation in sexual selection in a sexually cannibalistic insect. Biological & Environmental Sciences, School of Natural Sciences, U. of Stirling, Stirling, UK.

Judge KA. 2011. Sexual selection and the economics of mating in a sexually cannibalistic insect. Department of Biological Sciences, U. of Calgary, Calgary, Alberta.
– I was also invited to give this talk in the Department of Biology, U. of Regina in 2010.

Judge KA. 2010. Material benefits of sexual cannibalism in *Cyphoderris buckelli* (Orthoptera: Haglidae). Academy of Natural Sciences of Philadelphia, Philadelphia, Pennsylvania.

Judge KA. 2009. Fighting crickets: from ancient history to current science. Department of Biological Sciences, U. of Toronto Scarborough, Scarborough, Ontario.

Judge KA. 2007. Survival, song and sexual selection in the fall field cricket, *Gryllus pennsylvanicus*. Department of Biology, Laurentian U., Sudbury, Ontario.
– I was also invited to give this talk in the Department of Biology, U. of Toronto Mississauga in 2008, and the Department of Biological Sciences, U. of Lethbridge in 2010.

* = undergraduate coauthor

SELECTED CONFERENCE PRESENTATIONS

- Judge KA**, Smith BE*, Ohlmann S*, Cade WH. 2014. The evolution of weaponry and aggressive behaviour in North American field crickets. Genomes to Biomes 2014: Joint Annual Meeting of the Canadian Society for Ecology and Evolution, the Canadian Society of Zoologists, and the Society of Canadian Limnologists, McGill University, Montreal, Quebec.
- Ower GD, **Judge KA**, Steiger S, Caron KJ*, Smith RA*, Hunt J, Sakaluk SK. 2013. Quantification of sexual selection on male song structure in wild populations of sagebrush crickets, *Cyphoderris strepitans* (Orthoptera: Haglidae). Entomological Society of America 61st annual meeting, Austin Convention Centre, Austin, Texas.
- Bury S, Laird R, Schamp B, **Judge KA**. 2013. Male cricket intraspecific competition and the intransitivity of competitive networks. Annual meeting of the Canadian Society for Ecology and Evolution, UBC Okanagan, Kelowna, British Columbia. (Poster)
- Judge KA**. 2013. The bizarre mating system of hump-winged grigs (*Cyphoderris* spp.). Natural History Symposium at the Annual meeting of the Canadian Society for Ecology and Evolution, UBC Okanagan, Kelowna, British Columbia.
- Judge KA**, De Luca PA, Van Eindhoven JE, Mason AC, Morris GK. 2012. Evidence for hunger-driven hybridization in a genus of sexually cannibalistic insects (*Cyphoderris* spp.). Evolution 2012: Joint meeting of the CSEE, SSE, SSB, ANS and ESEB, U. of Ottawa, Ottawa, Ontario.
- I also gave this talk at the 2011 Winter meeting of the Association for the Study of Animal Behaviour, Zoological Society of London, London, UK; the 2012 Joint Annual Meeting of the Entomological Societies of Canada and Alberta; and the 2012 U. of Lethbridge Graduate Student Association Multidisciplinary Research Conference.
- Bell HC, **Judge KA**, Johnson EA*, Cade WH, Pellis SM. 2012. Crickets: Just 6-legged hairless rats wth antennae and exoskeletons. 2012 Animal Behavior Society annual meeting, U. of New Mexico, Albuquerque, New Mexico. (Poster)
- Judge KA**, Smith BE*, Cade WH. 2011. Aggressive competition between two-day-old crickets (*Gryllus veletis*) affects development. Behavior 2011 Joint meeting of the Animal Behavior Society and the International Ethological Conference, Indiana U., Bloomington, Indiana. (Poster)
- Judge KA**, Herrick S, Wells KD, Brooks RJ. 2011. Little temporal or geographic variation in multivariate sexual selection on male bullfrogs. 2011 Canadian Society for Ecology and Evolution annual meeting, Banff, Alberta.
- I also gave this talk at the 2011 U. of Lethbridge Graduate Student Association Multidisciplinary Research Conference.
- Judge KA**, De Luca P, Morris GK. 2010. Material benefits of sexual cannibalism in a primitive acoustic insect. Evolution 2010, Portland, Oregon.
- I also gave this talk at the 2010 Meeting of the Entomological Society of Alberta; and the 2010 U. of Lethbridge Graduate Student Association Multidisciplinary Research Conference.
- Judge KA**, Ting JJ*, Schneider J*, Fitzpatrick MA. 2009. The relative influences of weaponry and motivation on aggressive contests between male field crickets. 2009 Ontario Ecology and Ethology Colloquium, Queen's U., Kingston, Ontario.

- Judge KA.** 2008. Female social experience affects the shape of sexual selection on males. 12th Behavioral Ecology Congress. Cornell U., Ithaca, New York. (Poster)
 – I also gave this as a talk at the 2008 Ontario Ecology and Ethology Colloquium.
- Ting JJ*, Haley L*, **Judge KA**, Bertram S, Sherratt TN. 2008. V is for victory: the functional significance of victory displays in a territorial field cricket. 12th Behavioral Ecology Congress. Cornell U., Ithaca, New York.
- Judge KA.** 2007. Condition dependence of female choice for an honest indicator of quality in a field cricket. 2007 Ontario Ecology and Ethology Colloquium. U. of Western Ontario, London, Ontario.
- Judge KA**, Ting JJ*. 2006. Condition dependence of male lifetime reproductive effort in a field cricket. 11th Behavioral Ecology Congress. Tours, France. (Poster)
 – I also gave this as a talk to: the 11th International Meeting on Invertebrate Sound and Vibration (2006); the 2006 Ontario Ecology and Ethology Colloquium; and the 1st General Meeting of the Canadian Society for Ecology and Evolution (2007)
- Judge KA**, Bonanno VL*. 2005. Butting heads: sexual dimorphism in head size in field crickets and its influence on male-male competition. 2005 Ontario Ecology and Ethology Colloquium. Carleton U., Ottawa, Ontario.
- Judge KA**, Gwynne DT. 2004. What's in a song? Male age and other phenotypic correlates of calling song in *Gryllus pennsylvanicus*. 10th Behavioral Ecology Congress. U. of Jyväskylä, Jyväskylä, Finland.
 – I also gave this talk at the 2004 Ontario Ecology and Ethology Colloquium.
- Judge KA**, Bednarczuk EW*, Nudds TD. 2003. Road effects on southern flying squirrels (*Glaucomys volans*). 2003 Ontario Ecology and Ethology Colloquium. McMaster U., Hamilton, Ontario.
- Judge KA**, Brooks RJ. 2000. Chorus participation by male bullfrogs (*Rana catesbeiana*): a test of the energetic constraint hypothesis. 2000 Animal Behavior Society annual meeting. Morehouse College & Zoo Atlanta, Atlanta, Georgia.
 – I also gave this talk at the 1999 Ontario Ecology and Ethology Colloquium.
- Swanson SJ*, **Judge KA**, Brooks RJ. 2000. Reproductive strategies of the bullfrog (*Rana catesbeiana*): testing the good genes hypothesis. 2000 Ontario Ecology and Ethology Colloquium. Trent U., Peterborough, Ontario.
- Judge KA**, MacDonald JC, Shirose LJ, Swanson SJ*, Brooks RJ. 1999. Abundance, mortality and age distribution of three species of ranids in Algonquin Provincial Park, Ontario: are amphibians declining in an undisturbed habitat? 4th annual meeting of the Canadian Amphibian and Reptile Conservation Network, Québec City, Québec.
- Brooks RJ, **Judge KA**. 1998. Life history implications for conservation and monitoring of reptiles in Canada: Turtles. 3rd annual meeting of the Canadian Amphibian and Reptile Conservation Network. Saskatoon, Saskatchewan.
- Brooks RJ, **Judge KA**, MacDonald JC, Shirose LJ. 1998. Abundance and age distribution of three species of ranid amphibians in Algonquin Provincial Park, Ontario, Canada. 78th annual meeting of the American Society of Ichthyologists and Herpetologists. U. of Guelph, Guelph, Ontario.
- Judge KA**, Brooks RJ. 1998. Determinants of chorus tenure and the effects of feeding on chorus behaviour and participation in male bullfrogs, *Rana catesbeiana*. 1998 Ontario Ecology and Ethology Colloquium. Queen's U., Kingston, Ontario.

MacDonald JC, Brooks RJ, Shirose LJ, **Judge KA**. 1998. How important is statistical power when testing hypotheses of amphibian decline? 78th annual meeting of the American Society of Ichthyologists and Herpetologists. U. of Guelph, Guelph, Ontario.

Judge KA, Brooks RJ. 1997. An assessment of the validity of skeletochronology in the bullfrog, *Rana catesbeiana*. 12th annual meeting of the Canadian Association of Herpetologists. Acadia U., Wolfville, Nova Scotia.

Shirose LJ, Bishop CA, MacDonald JC, **Judge KA**, Brooks RJ. 1997. An evaluation of an anuran call count index of relative abundance. 7th annual meeting of the Task Force on Declining Amphibian Populations in Canada. Acadia U., Wolfville, Nova Scotia.

* = undergraduate coauthor

PROFESSIONAL SERVICE

- Subject Editor (Behaviour): *Journal of Orthoptera Research* (August 2013 to Present)
- Grant Reviewer: Animal Behaviour Society Student Grants, National Geographic Society, National Science Foundation (December 2015 to 2017)
- Manuscript Reviewer: *Animal Behaviour*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Behaviour*, *Biological Journal of the Linnean Society*, *Biology Letters*, *Canadian Entomologist*, *Canadian Journal of Zoology*, *Ecological Entomology*, *Ecology and Society*, *Ethology*, *Evolution*, *Evolutionary Ecology*, *Frontiers in Decision Neuroscience*, *Frontiers in Zoology*, *Insects*, *Journal of Ethology*, *Journal of Evolutionary Biology*, *Journal of Experimental Biology*, *Journal of Herpetology*, *Journal of Insect Behaviour*, *Journal of Orthoptera Research*, *PeerJ*, *PLoS ONE*, *Proceedings of the Royal Society of London B*, *Royal Society Open Science*, *Terrestrial Arthropod Review* (January 2002 to Present)
- Member: MacEwan U. Dept. of Biological Sciences Animal Care Committee (July 2017 to Present)
- Member: MacEwan U. Faculty of Arts and Science Teaching, Research and Faculty Development Committee (July 2015 to December 2016)
- Co-organizer: MacEwan U. Dept. of Biological Sciences Seminar Committee (September 2015 to September 2016)
- Co-coordinator: MacEwan U. Dept. of Biological Sciences BIOL-498: Independent Study (September 2015 to December 2016)
- Northern Director: Entomological Society of Alberta (November 2012 to November 2015)
- Co-organizer: Symposium on Natural History at the 2013 annual meeting of the Canadian Society for Ecology and Evolution (Spring 2013)
- Member: MacEwan U. Department of Biological Sciences Academic Staff Appointment Committee – Terrestrial Population Ecologist (Fall 2013)
- Co-Chair: 2004 Ontario Ecology and Ethology Colloquium Organizing Committee
 - OEEC is a regional meeting that draws researchers from Ontario, Quebec and some of the Great Lakes States.
- Co-organizer: 1999 Ontario Ecology and Ethology Colloquium
- Member: U. of T. Mississauga Department of Biology Neuroscience Faculty Search Committee (2005)
- Co-organizer: U. of T. Mississauga Department of Biology Seminar Series (Fall 2003)
- President: U. of T. Mississauga Biology Union of Graduate Students (2002 – 2006)
- Graduate Student Representative: Dept. of Zoology Graduate Affairs Committee (2002 – 2006)
- Graduate Student Representative: U. of T. Mississauga Biophysics Faculty Search Committee (2002)

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- Canadian Herpetological Society (2000 – Present)
- Animal Behavior Society (2000 – Present)
- International Society for Behavioral Ecology (2001 – Present)
- Canadian Society for Ecology and Evolution (Lifetime starting 2007)
- Society for the Study of Evolution (2010 – Present)
- Orthopterists' Society (Lifetime starting 2008)
- Entomological Society of Canada (2012 - Present)
- American Entomological Society (2010 – Present)
- Entomological Society of Alberta (2010 – Present)
- Society for Conservation Biology (2000 – 2012)

GRADUATE COURSES AND TRAINING

- *Advanced Biostatistics*, U. of Toronto 2004; Fortin M-J
- *Evolutionary Ecology*, U. of Toronto 2003; Rowe L, Agrawal AA, Darling DC, Baker AJ
- *Bioacoustics*, U. of Toronto 2002; Morris GK
- *Practical and Philosophical Problems in Ecology and Evolution*, U. of Toronto 2001; Collins NC, Rodd FH
- *University Teaching: Theory and Practice*, U. of Guelph 1998; Christensen Hughes J
- *Statistics for Psychologists*, U. of Guelph 1998; Desmarais S
- *Scientific Communication*, U. of Guelph 1997; Roff J
- *Philosophy of Biology*, U. of Guelph 1997; Brooks RJ, Ruse M

NON-ACADEMIC EMPLOYMENT HISTORY

Committee on the Status of Endangered Wildlife in Canada (May 2000 – May 2002)

- Wrote the update COSEWIC status report for the grey fox.
 - See Judge and Haviernick 2002 under Other Publications.

Dougan & Associates (May – August 2000, 2001)

- Studied the effects of roads on southern flying squirrel (*Glaucomys volans*) movements.
 - Revising manuscript after submission to *Ecography* (see Bednarczyk et al., in prep.)

Institute of Ichthyology, U. of Guelph (October – December 2000)

- Assisted an experimental study of breeding site competition between Atlantic salmon (*Salmo salar*) and stocked Pacific salmon (*Oncorhynchus* spp.).
 - This research resulted in a co-authored publication in *Ecology of Freshwater Fish* (see Scott et al. 2005).

Dougan & Associates (May – August 2000)

- Assisted in a mark-recapture study of southern flying squirrels in the Red Hill Valley.

Rob Willson & Associates (April – May 2000)

- Assisted in a survey of an endangered population of blue racer snakes (*Coluber constrictor foxii*).

Canadian Amphibian and Reptile Conservation Network (November 1999 – May 2000)

- Implemented a program for identifying Important Amphibian and Reptile Areas and designed a web site to host this information (www.cciw.ca/ecowatch/dapcan/important_areas).

OUTREACH

Bug Day, MacEwan U. Summer Camp (July 2012)

- Organized laboratory exercises to illustrate insect morphology, diversity and behaviour for a group of summer camp students.

Volunteer Curator, U. of Alberta E.H. Strickland Entomological Museum (August 2017)

- Organized and identified Orthoptera specimens housed in the E.H. Strickland Entomological Museum.

Entomology Display, MacEwan U. Open House (November 2012-Present)

- Displayed a variety of pinned insects, demonstrated insect behaviour and answered questions posed by members of the visiting public.

Cockroaches in the Classroom (2013)

- Brought live Madagascar hissing cockroaches into the class, and talked with students about insects.
- 13 Mar. 2013: Grovenor Public School Grade 3/4 (Contact: Josh Wong, teacher)
- 30 Jan. 2013: Westbrook Public School Grade 3 (Contact: Chelsea McPherson, teacher)

Bug Day, MacEwan U. Child Care Centre (November 2012)

- Brought live Madagascar hissing cockroaches into the daycare, and talked with the preschoolers about insects.

Insect Discovery Day, Alberta Birds of Prey Centre (August 2011)

- Displayed a variety of live Orthoptera native to Southern Alberta and answered questions posed by the visiting public.

Behavioral Ecology student discussion, U. of Puerto Rico Mayagüez (March 2011)

- Answered questions posed by students in Behavioral Ecology (BIOL 6199) concerning my paper in *PLoS ONE* (Judge and Bonanno 2008).

Cricket Day, Sunnyside Public School (February 2011)

- Spoke to grade school students about crickets and integrated discussion into their current science curriculum.

Bring Your Kids to Work Day, U. of Toronto Mississauga (April 2004-6)

- Spoke to grade school students about insects and their behaviour and ecology

Ecological Leadership, The Wilds of Pelee Outdoor Centre for Conservation (May 2000)

- Spoke to high school students about the reproductive ecology of the bullfrog.

MEDIA

- MacEwan U. Get to Work Career Week: What can I do with a Bachelor of Science degree? 31 July 2014 (<https://www.youtube.com/watch?v=RoNIWBPHc08>)
- Reuters TV: Bug sex can be deadly. 7 January 2013 (<http://www.reuters.com/video/2013/01/07/reuters-tv-bug-sex-can-be-deadly?videoid=240334840&videoChannel=118065>)
- New Scientist TV: Cannibal insect sex caught on video. 22 December 2012 (<https://www.newscientist.com/blogs/nstv/2013/01/cannibal-grig-sex.html>)
- BBC Nature: Female crickets eat virgin males. 12 July 2012 (<http://www.bbc.co.uk/nature/18796829>)

- Rogers, First Local (Local TV): Weaponry in field crickets and its relation to Chinese cricket fighting. 16 January 2009

REFERENCES

Available upon request.