Adam Blake

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Education

PhD Candidate, Entomology *2012 - Present*
Dept. of Biological Sciences, Simon Fraser University, Burnaby, BC
Thesis: The use of polarized light as a foraging cue in herbivorous insects
Supervisors: G. Gries

Master of Science, Ecology *September, 2010*
Dept. of Biological Sciences, University of Alberta, Edmonton, Alberta
Thesis: The effects of soil and plant nutrients on the oviposition preference, larval performance and the spatial dynamics of *Ceutorhynchus obstrictus* and its parasitoids
Co-Supervisors: Drs. B. A. Keddie & L. M. Dosdall

Bachelor of Science in Environmental and Conservation Sciences *April, 2006*
University of Alberta, Edmonton, Alberta
Major: Conservation Biology

Academic Awards

National

Alexander Graham Bell Canadian Graduate Scholarship, *2012-2014*
NSERC - $105,000

Provincial

Alberta Learning Graduate Student Scholarship, *2009*
Government of Alberta - $3,000

Institutional

Graduate Fellowship, Simon Fraser University - $6500 *2015 & 2016*
Student Virtual Poster: Graduate, *2016*
Entomological Society of America (ICE 2016) – $75
Provost's Prize of Distinction, *2012-2014*
Simon Fraser University – $15,000
President's Prize, Entomology Society of Canada - $250 *2009*
Queen Elizabeth II, University of Alberta - $10,000 *2008, 2009*

Research Experience

Research Associate / M.Sc. Student *2007 - 2010 / 2010 - 2012*
L. M. Dosdall, Dept. of Agriculture Food and Nutrition Science, University of Alberta
& B. A. Keddie, Department of Biological Sciences, University of Alberta
- Areas of research included:
    - Spatial distribution of canola pests and their parasitoids
    - Effect of plant nutrition on the preference, development and spatial distribution of canola pests
    - Mechanisms of *Delia* spp. resistance of plant material from *Sinapis alba* L. x *Brassica napus* L.
- Designed and executed field and laboratory studies
- Analyzed complex ecological data sets using multiple statistical techniques
- Prepared manuscripts for publication
- Coordinated multiple simultaneous studies and supervised up to 4 research technicians

Remote Aquatic Technician *Summer 2007*
Alberta Biodiversity Monitoring Institute
- Worked and camped in remote locations only accessible by helicopter
- Sampled various aspects of wetlands including flora, fauna, and physical characteristics
- Utilized a variety of equipment including quads, chainsaws, and boats

Research Technician / B.Sc. Student *Summer 2005, 2006 - 2007*
E. M. Bayne, Dept. of Biological Sciences, University of Alberta
- Completed an undergraduate research project
- Performed air photo interpretation of forest cover along BBS routes
- Processed large numbers of arthropod samples
- Performed nest searching, arthropod sampling, as well as various types of vegetation sampling
- Completed worm transects, recorded bird vocalizations, and performed pairing observations on Ovenbirds
- Utilized quads and 4x4 trucks in a remote setting

Publications

Eichorn C., Hrabar M., Van Ryn E.C., Brodie B.S., **Blake A.J.**, Gries G. How flies are flirting on the fly. BMC Biology 15:2. DOI: 10.1186/s12915-016-0342-6

Blake, A.J., Tansey J.A., and Dosdall L.M. 2014. Nutritional Effects on the Appearance of Canola and its Attractiveness to the Cabbage Seedpod Weevil. Journal of Insect Behavior 27:759-775. DOI: 10.1007/s10905-014-9466-0

Tansey J.A., Dosdall L.M., Keddie B.A., and **Blake A.J.** 2012. A novel trapping system for monitoring insect flight heights. The Canadian Entomologist 144:1-4. DOI: 10.4039/tce.2012.59

Blake, A.J., Tansey J.A., and Dosdall L.M. 2011. Nutritional effects on the visual appearance of oilseed rape as a causal mechanism to explain differences in its attractiveness to *Ceutorhynchus obstrictus* (Coleoptera: Curculionidae). Proceedings of the 13th International GCIRC Rapeseed Congress, Prague, Czech Republic, 5-9 June, pp. 1256-1261.

Blake A.J., Dosdall L.M., and Keddie B.A. 2011. Bottom-up effects of *Brassica napus* nutrition on the oviposition preference and larval performance of *Ceutorhynchus obstrictus* (Coleoptera: Curculionidae). Arthropod-Plant Interactions 5:39-48. DOI: 10.1007/s11829-010-9114-3

Blake A.J., Dosdall L.M., and Keddie B.A. 2010. Plant nutrients and the spatiotemporal distribution dynamics of *Ceutorhynchus obstrictus* (Coleoptera: Curculionidae) and its parasitoids. Environmental Entomology 39:1195-1205. DOI: 10.1603/EN09217

Sarfraz R.M., Dosdall L.M., **Blake A.J.,** and Keddie B.A. 2010. Leaf nutrient levels and the spatio-temporal distributions of *Plutella xylostella* and its larval parasitoids *Diadegma insulare* and *Microplitis plutellae* in canola. Biocontrol 55:229-244. DOI: 10.1007/s10526-009-9252-7

Patents

Eichorn, C.E., Hrabar M.G., Van Ryn E.C., Brodie B.S., **Blake A.J**., and G.J. Gries. Systems and methods for attracting insects by simulating wing flash. US Provisional Patent Application filed 6 November, 2015, File No. 62/252,376.

Presentations

Blake A.J., Go M.C., and Gries G. 2016. Polarized light cues affect host selection in *Pieris rapae*. Virtual Poster Presentation, 25th International Congress of Entomology, Orlando, Florida, September 25 – 30, 2016. DOI: 10.1603/ICE.2016.117672

Blake A.J., Go M.C., and Gries G. 2015. The Role of Polarized Light in Host Selection by *Pieris rapae*. Oral Presentation, Annual Meeting of the Entomological Society of Canada, Montreal, Quebec, November 8 – 11, 2015.

Blake A.J., Rajput S., Dosdall L.M., and Tansey J.A. 2012. Nutritional effects on the glucosinolate composition of canola and its olfactory attractiveness to the cabbage seedpod weevil. Oral Presentation, Annual Meeting of the Entomological Society of Canada, Edmonton, Alberta, November 4 – 7, 2012.

Blake A.J., Dosdall L.M., and Tansey J.A. 2011. Nutritional effects on the visual appearance of canola and its attractiveness to the cabbage seedpod weevil. Oral Presentation, Annual Meeting of the Entomological Society of Canada, Halifax, Nova Scotia, November 6 – 9, 2011.

Blake A.J., Dosdall L.M., and Keddie B.A. 2010. Systemic spatial relationships among soil and plant characteristics and the distribution of *Ceutorhynchus obstrictus* (Coleoptera: Curculionidae) and its parasitoids. Oral Presentation, Annual Meeting of the Entomological Society of Canada, Vancouver, British Columbia, October 31 – November 3, 2010.

Blake A.J., Dosdall L.M., and Keddie B.A. 2010. Artificial nutrient hotspots and their effects on the appearance of *Brassica napus* and the abundance of *Ceutorhynchus obstrictus*. Oral Presentation, Annual Meeting of the Entomological Society of Alberta, Lethbridge, Alberta, October 15-16, 2010.

Blake A.J., Dosdall L.M., and Keddie B.A. 2009. The influence of canola nutrition on the oviposition choice and larval development parameters of the cabbage seedpod weevil. Oral Presentation, Annual Meeting of the Entomological Society of Canada, Winnipeg, Manitoba, October 18-21, 2009.

Blake A.J., Dosdall L.M., and Keddie B.A. 2008. The effect of plant nutrient composition on the spatio-temporal dynamics of the cabbage seedpod weevil, *Ceutorhynchus obstrictus* (Marsham) (Coleoptera: Curculionidae), and its parasitoids. Oral Presentation, Annual Meeting of the Entomological Society of Alberta, Edmonton, Alberta, November 6-8, 2008.

Teaching Experience

Instructor *Summer 2017*
Brewing Sciences Laboratory (Brew 410)
Continuing Studies, Simon Fraser University
- Primary instructor for hybrid lab/lecture course (up to 25 students) concerning quality control and assessment procedures in the brewing industry
- Delivered lectures, supervised laboratory activities, and evaluated student presentations

Graduate Teaching Assistant *Fall 2007, Winter 2008 - Winter 2010*
Introduction to Cell Biology (Biol 107)
Dept. of Biological Sciences, University of Alberta
- Instructed undergraduate introductory cell biology laboratory of up to 20 students
- Communicated course material, answered student questions and evaluated student performance

Graduate Teaching Assistant *Fall 2008*
Vertebrate Diversity (Zool 224)
Dept. of Biological Sciences, University of Alberta
- Myself and another TA Instructed undergraduate vertebrate diversity laboratory of up to 40 students
- Communicated course material and answered student questions
- Aided in the creation of exams and evaluated student performance

Undergraduate Teaching Assistant *Winter 2005 & 2006*
Wildlife Biodiversity and Ecology (ENCS 201)
Dept. of Renewable Resources, University of Alberta
- Aided a graduate teaching assistant in the instruction of an undergraduate wildlife biodiversity and ecology laboratory of up to 20 students
- Answered student questions and aided in the creation of exams

Community Service

Entomological Society of Alberta *2011*
- Served as treasurer on the groups executive
- Maintained financial records and membership list for the society
- Filed the society's yearly registration with the province

Membership

Student Member, Entomological Society of America *2010-2017*
Student Member, Entomological Society of Canada *2009-2017*
Student Member, Entomological Society of British Columbia *2014-2017*
Biologists-in-training, Alberta Society of Professional Biologists *2007-2017*

References

References available upon request