

Tanya L.M. Stemberger

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Education

- 2015 **Master of Science**
Simon Fraser University, Supervised by Dr. Bernard Roitberg
Invasion Biology, Ecology, Evolutionary Biology
- 2011 **Honours Bachelor of Science (with High Distinction)**
University of Toronto Scarborough
Integrative Biology Specialist
- 2005 **ASSE/PIEE High School Student Exchange**
At Ohara Koko (host school), in Kanagawa, Japan

Recent Coursework, Seminars, & Workshops

- Fall 2015 **Python Data Structures and Programming for Everybody.** Instructed by Charles Severance, University of Michigan, on CourseRa.
- Fall 2014 **Whistler Science Communication Retreat.** Weekend of seminars, presentations, and group discussions on current topics in Science Communication. Organized by Leslie Evans Ogden in collaboration with Banff Science Communication.
- Summer 2014 **R Programming.** Instructed by Dr. Roger D. Peng, Biostatistics, Johns Hopkins Bloomberg School of Public Health, on CourseRa.
- August 2012 **Invasive (plant) species walkabout on Sault Ste. Marie's Historic Whitefish Island, and Overview of Invasive Species Research at the Ontario Forest Research Institute.** Presented by the Terrestrial Invasive Plant Species conference.
- July 2012 **Workshop: Communicating Science to Society.** Presented by the 1st Joint Congress on Evolutionary Biology. Hosted by Peter Calamal and Richard Webster. Speakers: Carl Zimmer, Penny Park, Elizabeth Howell, Tim Loughheed, and Tom Sherratt.
- Spring 2012 **Quantitative Methods for Resource Managers and Field Biologists (Statistics).** Instructed by Dr. Wendell Challenger, Course Materials by Dr. Carl Schwarz, SFU.
- Fall 2011 **Biology and Management of Insects.** Instructed by Dr. Jenny Cory, SFU.

Fall 2011 **Evolution and Behavioural Ecology Seminar.** Organized by Dr. Bernard Roitberg, instruction from various faculty in the Evolution and Behavioural Ecology Research Group, SFU.

Fall 2011 **Theory and Current Directions in Invasion Biology, Directed Readings.** Instructed by Dr. Bernard Roitberg, SFU.

Scholarships & Awards

Name of Award	Value	Date	Details
Simon Fraser University Graduate Fellowship	\$6,250	May-Sep. 2013	A merit based fellowship awarded to full-time graduate students with a minimum first-class (3.50) GPA and high research potential.
NSERC-CGSM	\$17,500	May 2012-May 2013	Provides financial support to high calibre scholars in natural sciences or engineering MSc programs. Held in the Roitberg lab at Simon Fraser University.
Simon Fraser University Graduate Fellowship	\$6,250	Jan.-Apr. 2012	A merit based fellowship awarded to full-time graduate students with a minimum first-class (3.50) GPA and high research potential.
James Grant Award	\$400	Oct. 2011	Awarded to the best oral presentation by a Master's student at the Entomological Society of BC AGM, presented by the North Okanagan Naturalists' Club.
Fourth Year Honours		May 2011	Awarded to students who complete their final year of Undergraduate studies with a GPA of greater than 3.70.
Ecology Field Course Best Poster		Dec. 2010	Awarded to the best poster and poster presentation.
McGraw-Hill Ryerson Scholarship	\$1,000	Oct. 2010	A national competition, awarded to students who show great integrity, engagement and initiative in the classroom. Nominations are submitted by instructors.
Undergraduate Student Travel Fund	\$1,648	May 2010	Used to attend and present at the Canadian Society of Zoology annual meeting in Vancouver, hosted by UBC.
UTSC Drama Society Best Actress		Apr. 2009	For the part of the Older Female Actress in "This is a Play".

Scholarships & Awards

Name of Award	Value	Date	Details
Undergraduate Student Travel Fund	\$277	May 2009	Used to attend and present at the Ontario Evolution and Ecology Colloquium in Kingston (Queens University).
NSERC-USRA	\$4,500	May-Aug 2008	Held within the Andrade Lab at the University of Toronto Scarborough.

Peer-Reviewed Publications & Projects In Progress

- (in press) **Stemberger, T.L.M.** (Scientific Note): Survey of hanging and fallen fruit use by spotted wing drosophila and other *Drosophila* species. The Pan-Pacific Entomologist.
- (in prep pre-submission) Dancau, T. and **Stemberger, T.L.M.** Interspecies competition across life-stages between *Drosophila suzukii* and *D. melanogaster* in the lab.
- (in prep - pre-submission) **Stemberger, T.L.M.** & Andrade, M.C.B. The effects of experience on intermale competition in the western black widow spider.
- (in prep pre-submission) **Stemberger, T.L.M.**, Boers, M. & Roitberg, B. Modelling the effects of SWD; a potential ecosystem engineer.
- (in prep pre-submission) **Stemberger, T.L.M.** and Roitberg, B. Microevolution and phenotypic plasticity in an overwintering adaptation of *Drosophila suzukii*.
- (in prep pre-submission) **Stemberger, T.L.M.**, Crisp, K., and McGregor, R. Predicting strawberry marketability in from development and thrips damage.
- (in prep) McIntosh, S. and **Stemberger, T.L.M.** Effects of larval competition on survival and size *Drosophila melanogaster* and *D. suzukii*.
- (in prep) **Stemberger, T.L.M.** and Fitzpatrick, M.J. Misinformation leads to overconfidence in aggressive contests.
- (in progress) Dancau, T. and **Stemberger, T.L.M.** Competitive behavioural strategies of *Drosophila melanogaster* and *D. suzukii*.
- (in progress) **Stemberger, T.L.M.** and Gillespie, D. Survival of wild-caught *Drosophila suzukii* in autumn conditions to cold challenges.
- (in progress) **Stemberger, T.L.M.**, Melo, D., Crisp, K., and McGregor, R.(Scientific Note): Endangered tiger beetles (*Omus audouini*) may be disappearing from its remaining range in B.C..

Publications

Stemberger, T.L.M. Invited short article in the Canadian Society for Ecology and Evolution Bulletin 16:8(#2), Page 14. August 2014: [Communications Workshop](#) A brief overview of the Science Communication workshop I organized for GENOMES TO/AUX BIOMES, May 2014.

Stemberger, T.L.M. & Andrade, M.C.B. **Abstract:** The effects of experience on intermale competition in the western black widow spider. Journal of the Entomological Society of British Columbia 108:46 (2011).

Stemberger, T.L.M. Guest blogger for Future Science Leaders. September 2013:[Is Habitat Island Living Up to it's Name?](#) A discussion of habitat change and human impacts on ecosystems, the beginning of the longterm monitoring project, and how the first sampling day played out.

Stemberger, T.L.M. A Biologist Walks into a Bar... A Life Science and Science Life blog. April 2011 - present. Example posts:

- (1) [Grigs Make Poor Pets](#) A casually styled piece using narrative and humour to communicate excitement in discovery while discussing some interesting facts about *Cyphoderris buckelli* (hump-winged grigs).
- (2) [Nancy Baron Captivates the SFU Biology Department](#) A report on the events, main messages, and lessons brought to SFU by a professional science communicator.
- (3) [Darwin Haikus](#) A description of a programmatic tool that finds haikus in text. Origin of Species was used to provide amusing and/or thought provoking examples.

Experience

Instructor (Fellow) [Future Science Leaders, FSL](#) (2012 to *present*, Telus World of Science)

After school science enrichment program for exceptional teens in grades 10 and up.

Helped design, organize, revise, and run 2.5 hour sessions and activities with 25-30 advanced high school students. In 2012 I worked on the Earth and Space Science unit; now I do the Environmental Sciences unit (2013-present).

- Earth & Space Science Topics: waves, earthquakes, liquefaction, glaciers, groundwater, magnetic fields and their application.
- Environmental Science Topics: Impact assessments with a field research project including quadrat and transect sampling as well as comparisons for early and late-successional rocky intertidal zones in Vancouver. Introduction to data management and visualization, programming with R, and communicating results.

Participated in discussion and provided advice to other program Fellows on activity design, flow, and on working with high school students.

Technical Editor [Journal of the Entomological Society of BC, JESBC](#) (Sept. 2011 to *present*)

Designed and typeset the online (PDF) and printed publication of the JESBC.

Popular Science Writer [Freelance](#) (Oct. 2015)

Wrote articles on recent advances in science research for a general audience.

Biological Control Research Technician [Douglas College](#) (Jan. 2015 to Aug. 2015)

Designed and conducted research projects/surveys as part of a team on various species of mites, thrips, strawberries, and endangered beetles in the field, in greenhouses, and in the lab. Drafted manuscripts for publication and conducted literature reviews to provide advice on future research directions.

Used an integrative approach to pull concepts from other areas of ecology to analyze complex datasets with R, including mixed effects multivariate statistics, Markov modelling, and data visualization.

Mentored students and taught scientific writing and presentation skills.

Research Mentor Roitberg Lab (2012 to 2015, SFU)

Developed and supervised 3 original undergraduate research projects, and provided supervision and mentorship to a full time summer research student, 2 co-op students, and 24 undergraduate volunteers at all stages of degree completion.

Provided training and guidance in experimental design, research methods, statistical analyses, *Drosophila* population care and handling, presentation and communication (oral, visual, written), academic and career advising.

Graduate Researcher Roitberg Lab (2011 to 2015, SFU)

Developed a research program from published literature including a suite of original research questions.

Collected field samples from California and across British Columbia, created and troubleshot an original rearing and breeding protocol, and established insect populations in the laboratory. Lead the design and construction of experimental apparatuses with a focus on scientific rigour, repeatability, and avoidance of pseudoreplication in the application of treatments. Collected data for three empirical studies including extensive experimental manipulations and field surveys.

Collaborated on the design and implementation of an agent-based computational model. Manipulated and combined multiple datasets with up to 3000 data points, helped clean and prepare data, conducted extensive analyses including multivariate mixed effects modelling and data visualization, interpreted and placed results in the context of the scientific literature.

Wrote proposals (including successful competitive grant applications), summaries, and full research and analysis reports. Gave several presentations (including invited talks), to collaborators, the department, and the scientific community providing engaging (with detail and concision appropriately balanced) descriptions of analyses and results.

Presenter Spiders Unravalled, Iona Beach, Richmond, full day event (Sept. 2014)

Free public event to educate all ages about spider biology, diversity, and ecosystems.

Designed, assembled, and ran an activity table where participants could “eat like a spider” by sampling entomophagous snacks and smoothies while learning about what and how spiders eat, as well as entomophagy.

Presenter Bugs and More! Richmond Nature Park full day event (Sept. 2014)

Second annual free public event on insects and arachnids to bolster interest in arthropods by understanding their biology and ecology.

Helped design, assemble, and run an activity table with information on entomophagy as well as several entomophagous snacks.

Coordinator and lead organizer the Canadian Society of Ecology and Evolution, CSEE, Science Communication Workshop (May 2014, McGill University for GENOMES TO/AUX BIOMES)

A workshop for scientists (all levels) in biological sciences to understand the importance and gain concrete skills for engaging in science communication and outreach activities. The workshop included a mini-symposium of 4 short talks with a panel discussion on the “why” & “how” of science communication, followed by two breakaway group sessions to build skills with hands-on activities in blogging and radio/podcasting.

Wrote and presented the project proposal to the council of the CSEE. Designed the structure and flow of talks and activities across the afternoon. Developed and produced written, printed, and graphic materials used during the workshop and materials for promotion.

Lead a team of 7 scientists and science communication specialists in conjunction with CSEE and conference organizers to present this full afternoon workshop. Selected, approached, and coached speakers and group leaders to participate and develop content.

Participated as Master of Ceremonies, presenter, and panelist, while also coordinating and troubleshooting behind the scenes to present a smooth experience for attendees.

Teaching Assistant BISC300 - Evolution (Spring 2014, SFU)

Taught tutorial activities including concepts and/or problem sets on Hardy-Weinberg Equilibrium (HWE), deviations from HWE (mutation, selection, migration, genetic drift, non-random mating, linkage and sex), quantitative genetics, altruism & kin selection, and phylogenies. Designed lessons to teach skills in presentation and communication, as well as activities on building phylogenetic trees. Marked student presentations, written assignments, and exams.

Presenter Bugs Galore! Richmond Nature Park full day event (Sept. 2013)

First annual free public event on insects and arachnids to bolster interest in arthropods by understanding their biology and ecology.

Designed, assembled, and ran an activity table with information on Spotted Wing Drosophila for urban and suburban gardeners as well as family activities on scientific inquiry as well as the major taxa, life history, and behaviour of insects.

Instructor Bug Science! Discovering Entomology for Kindergarteners (March 2013)

Designed, assembled, and taught hands-on activities introducing scientific inquiry and the major insect taxa to 20 kindergarten students in an afternoon classroom visit.

Assistant Editor FSL Discovery Magazine (Feb. 2013 to May 2013, Telus World of Science)

Selected material, edited content, and contributed to layout design and implementation. The published magazine was used to establish community connections as well as garner private sponsorship of the Future Science Leaders program.

Events Committee Biology Graduate Student Caucus (Sept. 2012 to Aug. 2013, SFU)

Invented, organized, and ran social and academic community-building events for Biology graduate students.

Instructor and Group Leader Let's Talk Science (2011 to 2013)

Designed and carried out group activities on oil spills & remediation with 20-25 students in grade 2.

Electricity: Taught concepts and lead activities including building simple circuits, circuits in series and parallel, building magnets, and testing conductivity. Students learned about electron flow and reviewed subatomic structure. Activities were with classes of 20-40 students in grades 6-8.

DNA Extractions: Taught concepts on DNA structure, function, and inheritance. Lead activities to extract DNA from fruits. Activities were with classes of 20-40 students in grades 4-8.

CSI: Taught organization and the process of elimination. Lead activities on identifying chemicals based on the reactions they had with known substances. Activities were with classes of 20-40 students in grades 4-8.

Polymers: Taught concepts on states of matter and colour theory. Students made and coloured slime and non-Newtonian fluid that they took home. Activities were with groups of 10-60 children in kindergarten to grade 2.

Science Fair Mentorship: reviewed research projects designed by high school students and provided advice on design, methods, statistics, and context. Also provided advice on education and career directions. Work was one-on-one or in groups of up to 3 students.

Teaching Assistant BISC102 - General Biology (Fall 2011, SFU)

Designed and taught tutorial activities to review lecture and lab material (diversity, origin & history of life on earth, phylogeny, meiosis and genetics, evolution & natural selection, sexual selection, microevolution, macroevolutionary patterns, species and speciation, human evolution, ecology, animal behaviour). Taught and supervised laboratory activities, marked lecture and lab based exams and assignments.

Volunteer Society for Canadian Women in Science and Technology (Sept. 2011)

Helped plan a social media strategy.

Research Laboratory Manager Andrade Lab (2009 to 2011, UTSC)

Designed, taught, and supervised activities on practical laboratory skills and safety protocols while handling a variety of insects and arachnids including multiple venomous widow spider species (genus *Latrodectus*).

Wrote a reference and teaching manual of laboratory protocol specific to breeding, rearing, and using *Latrodectus* spiders for experimentation, as well as for the species used to support the spider populations (*Drosophila* and crickets).

Participated in hiring decisions for laboratory assistants.

Personal Tutor: BIOA01 - Introduction to Biology Part I (2009, UTSC)

Taught study and exam-writing skills, reviewed course concepts (cell structure, DNA replication, transcription, translation, cell division & inheritance, bioenergetics & enzymes, metabolism & transport processes, plant cell structure & function, photosynthesis).

Tech Operator & Volunteer Canadian Society of Zoology (CSZ) Annual Meeting (May 2009, UTSC)

Provided assistance to conference delegates loading talks, using presentation technology, and finding their way around campus.

Promotions & Executive Drama Society (UTSC, Feb. 2009 to May 2009)

Provided guidance on event and creative production choices, use of funds, and directions for growth for the society. Also designed and created promotional materials for events and productions.

Outreach Placement Coordinator Science Engagement (Jan. 2009 to Feb. 2010, UTSC)

Assessed program applications and matched students with appropriate outreach placements.

Established new community connections to create placement opportunities while maintaining older relationships. Designed promotional materials and managed social media.

Social Co-ordinator Andrade Lab (May. 2008 to Sept. 2008, UTSC)

Organized community-building events and activities for 20+ lab members, alumni, and associates.

Lab Assistant Andrade Lab (Apr. 2007 to May 2008, UTSC)

Helped maintain populations of various insects and arachnids for use in experiments.

Personal Tutor: PSYA01 - Introduction to Psychology (2007, UTSC)

Taught study and exam-writing skills, and reviewed course concepts including research techniques in psychology, evolutionary psychology, the biology of behaviour, learning and behaviour, sensation, perception, and memory & consciousness.

Personal Tutor: SCH3U - Grade 11 Chemistry, University Preparation (2007)

Taught study and exam-writing skills, and reviewed concepts from the Ontario curriculum including chemical bonding, balancing chemical equations, unit conversions, Bronsted-Lowry theory of acids & bases, understanding pH, and stoichiometry problems.

Martial Arts Assistant Instructor: Beginner to master levels (1998 to 2005, Northern Karate Schools, Don Mills Dojo).

Led groups of up to 50 students ranging between the ages of 3 and 80+.

Taught self defence, stamina & cardio, stretching, strength building & conditioning, general empty-hand technique and forms, weapons techniques and forms.

Emphasized history, some Japanese vocabulary, and a 'personal best' philosophy.

Conference Posters and Presentations

May 2014 **Stemberger, T.L.M.**, Boers, M., & Roitberg, B. Studying two sides of the same coin; Resource impacts and responses to spotted-wing *Drosophila* invasion. GENOMES TO/AUX BIOMES, McGill University, Montreal, Quebec.
(oral presentation)

May 2014 **Stemberger, T.L.M.** Matching engagement with your personality. Science Communication Workshop at GENOMES TO/AUX BIOMES, McGill University, Montreal, Quebec.
(oral presentation)

March 2014 **Stemberger, T.L.M.**, Boers, M., & Roitberg, B. Studying two sides of the same coin; Resource impacts and responses to spotted-wing *Drosophila* invasion. Finlayson Biodiversity Symposium and Reception, Simon Fraser University, Burnaby, British Columbia.
(invited speaker)

May 2013 **Stemberger, T.L.M.**, Boers, M., & Roitberg, B. Re-slicing the pie: invasive species and community resources. Canadian Society for Ecology and Evolution, University of British Columbia Okanagan Campus, Kelowna, British Columbia.
(oral presentation)

- February 2013 (oral presentation) **Stemberger, T.L.M.**, Boers, M., & Roitberg, B. Re-slicing the pie: invasive species and community resources. Professional Pest Management Association of BC, Simon Fraser University, Burnaby, British Columbia.
- October 2012 (oral presentation) **Stemberger, T.L.M.**, Boers, M., & Fitzpatrick, M.J. Misinformation leads to overconfidence in aggressive contests. Les Ecologists, Simon Fraser University, Burnaby, British Columbia.
- August 2012 (poster) **Stemberger, T.L.M.**, Boers, M., & Roitberg, B. Re-slicing the pie: invasive species and community resources. Terrestrial Invasive Plant Species conference, Delta Sault Ste. Marie Waterfront Hotel, Sault Ste. Marie, Ontario.
- July 2012 (poster) **Stemberger, T.L.M.**, Boers, M., & Fitzpatrick, M.J. Misinformation leads to overconfidence in aggressive contests. First Joint Congress on Evolutionary Biology, The Ottawa Convention Centre, Ottawa, Ontario.
- November 2011 ("Data Blitz") (oral presentation) **Stemberger, T.L.M.** & Roitberg, Opportunities and directions for research with the spotted wing drosophila (*Drosophila sukuzii*). Tri-University Ecology/ Evolution Retreat, Brackendale, British Columbia.
- October 2011 (oral presentation) **Stemberger, T.L.M.**, Modanu, M. & Andrade, M.C.B. The effects of experience on competition in male Black Widow spiders (*Latrodectus hesperus*). Entomological Society of British Columbia Annual Meeting, University of the Fraser Valley, Abbotsford, British Columbia.
- May 2010 (poster) **Stemberger, T.L.M.**, Modanu, M. & Andrade, M.C.B. The effects of experience on competition in male Black Widow spiders (*Latrodectus hesperus*). Canadian Society of Zoology (CSZ) Annual Meeting, University of British Columbia, Vancouver, British Columbia.
- May 2010 (poster) **Stemberger, T.L.M.** & Fitzpatrick, M.J. Food fights: The effect of larval nutrition on the aggressive behaviour of adult male *Drosophila simulans*. Canadian Society of Ecology and Evolution (CSEE) Meeting, Laval University, Quebec.
- April 2010 (oral presentation) **Stemberger, T.L.M.**, Boers, M. & Fitzpatrick, M.J. Food fights: The effect of larval nutrition on the aggressive behaviour of adult male *Drosophila simulans*. University of Toronto Scarborough Honours Thesis Seminar, UTSC, Ontario.
- March 2010 (oral presentation) **Stemberger, T.L.M.**, Modanu, M. & Andrade, M.C.B. The effects of experience on competition in male Black Widow spiders (*Latrodectus hesperus*). Ontario Biology Day, York University, Ontario.
- April 2009 (oral presentation) **Stemberger, T.L.M.**, Modanu, M. & Andrade, M.C.B., The effects of experience on intermale competition in the Western Black Widow spider (*Latrodectus hesperus*). Ontario Ecology and Ethology Colloquium (OEEC), Queens University, Ontario.

April 2009 (oral presentation) **Stemberger, T.L.M.**, Modanu, M. & Andrade, M.C.B. The effects of experience on intermale competition in the Western Black Widow spider (*Latrodectus hesperus*). University of Toronto Scarborough Honours Thesis Seminar, UTSC, Ontario.

October 2008 (poster) **Stemberger, T.L.M.**, Modanu, M. & Andrade, M.C.B. The effects of experience on competition in male Black Widow spiders (*Latrodectus hesperus*). Joint meeting of the Entomological Societies of Canada and Ontario (ESC/ESO JAM), Crowne Plaza Hotel, Ottawa, Ontario.

Professional & Student Societies, Associations, Groups and Labs

March 2014 to 2015 **Canadian Science Writers Association (CSWA)**

Sept. 2012 to 2013 **Science Online Vancouver**

Sept. 2011 to present **Society for Canadian Women in Science (SCWIST)**

2011 to 2013 **Let's Talk Science**

May 2011 to 2015 **Roitberg Lab**, SFU

Oct. 2011 to present **Entomological Society of British Columbia (ESBC)**

2011 **British Columbia Institute of Agrologists**

2009 to present **The Canadian Society of Ecology and Evolution (CSEE)**

2009 to 2011 **The Canadian Society of Zoology (CSZ)**

Sept. 2009 to May 2010 **Fitzpatrick Lab**, UTSC

2008 **Entomological Societies of Canada and Ontario (ESC/ESO)**

Apr. 2007 to 2011 **Integrative Behaviour and Neuroscience Group (IBN)**, UTSC

Apr. 2007 to 2011 **Andrade Lab**, UTSC

2007 to 2011 **Drama Society (DS)**, UTSC

2007 to 2011 **Biological Sciences Student Association (BioSA)**, UTSC

2006 to 2007 **Life Sciences Student Union (LSSU)**, UTSC

2004 to 2011 **Theatre Ontario**.

Extra-Curricular Activities

Oct. 2015 **Invited Speaker** Formal talk and informal discussion on "Traditional vs Contemporary Communication: Science and Social Media" for a Health Sciences graduate and senior undergraduate research seminar course at the University of Northern British Columbia.

- June 2014 **Attendee at CSWA 2014** Canadian Science Writers Association 2014 annual meeting held at the University of Toronto.
- April 2014 **Guest Lecture** on serendipity in research career paths, for third year undergraduates in an Evolution course, Simon Fraser University.
- May 2013 **Attendee at SWEET in partnership with CSEE** Symposium for Women Entering Ecology and Evolution Today held at the Canadian Society for Ecology and Evolution conference at UBCO.
- May 2013 **Attendee at Creating Connections Conference by WWEST** Westcoast Women in Engineering, Science, & Technology organized conference at UBC.
- Mar. 2013 & 2014 **Attendee at XX Evening by SCWIST** Networking events by the Society for Canadian Women in Science & Technology at Telus World of Science.
- Aug. 2011 **Performed in "Morning of the Living Dead" as the Wife** Commercial Project by Jeremy Greening at the Art Institute of Vancouver.
- Mar. 2011 **Attendee at CREST by WISE** Women in Science and Engineering organized Current Research in Engineering, Science & Technology conference at McMaster University.
- Sept. 2009 **Panellist/Speaker** New Faculty Orientation, University of Toronto Scarborough.
- Oct. 2009 **Performed in "Canker Sores & Other Distractions" as Prunella** UTSC Drama Society, Act One Seen Too.
- Feb. 2009 **Performed in "This Quarter Life" as Girl From the Past** Mini Series by Sticks and Stones Films.
- Dec. 2008 **Integrative Behaviour and Neuroscience Group (IBN) talk** Inexperienced VS experienced; intermale competition for virgin females in *Latrodectus hesperus* (continued), University of Toronto Scarborough.
- Nov. 2008 **Invited Speaker** Undergraduate Opportunities Seminar by Neuroscience Student Association, University of Toronto Scarborough.
- Oct. 2008 **Performed in "This is a Play" as Older Female Actress** UTSC Drama Society, Act One Seen Too.
- Aug. 2008 **Integrative Behaviour and Neuroscience Group (IBN) talk** Inexperienced VS experienced; intermale competition for virgin females in *Latrodectus hesperus*, UTSC.
- Feb. 2008 **Performed in "The Green Room" as Chloe** UofT Student Drama Festival.

Miscellaneous Training and Skills

- Laboratory Biosafety and Autoclave Use, Certified by UofT and SFU.
- Workplace Hazardous Material Information System (WHMIS), Human Resource Services, UTSC.
- Shop Safety Training, Department of Visual and Performing Arts, UTSC.
- Performance: Introduction and Intermediate level, Department of Visual and Performing Arts, UTSC.
- Acting for Film and TV, New School of Drama, The Actors Network, Sears and Switzer, and Shoreline Studios.
- Improv Acting, Bad Dog Theatre and Improv Comedy Institute.
- Martial Arts (Second Degree Black Belt), Northern Karate Schools.
- Conversational Japanese.

Summary of Key Skills

Science and Technology Expertise and Experience

Experimental design, field collection and sampling, laboratory protocol design for experimental methods and organism care.

Design, production, and use of original experimental apparatus.

Statistics with JMP, SPSS, R, and programming in R and Python.

A wide range of software including Pages, Keynote, and the Adobe Creative Suite and the Office Productivity Suite.

Managing online content across a number of platforms including in Wordpress, Posterous (no longer available), Flickr, Vimeo, YouTube, etc..

Use of social media, particularly Twitter.

People, Project, and Organizational Expertise and Experience

Project management including building time and resource budgets for multiple simultaneous projects, task prioritization, ordering and organizing materials and equipment, setting goals, and working with deadlines.

People management including advertising positions, interviewing, making hiring recommendations, organizing schedules and tasks to meet project demands, providing training, building independent learning resources, building community and maintaining motivation.

Organizing a wide variety of events for different audiences, e.g. professional workshops at conferences, student and academic socials, journal clubs and lab meetings.

Growing professional networks and developing opportunities for clients/students.

Communication Expertise and Experience

Award-winning oral and written communication for public, professional, and academic audiences.

Selecting, editing, and creating original written materials for grants, proposals, scientific literature reviews, scientific papers, essays, magazine and blog posts, educational and promotional materials, etc..

Design and layout of presentations, posters, scientific journals, magazines, and promotional materials.

References

Available upon request.