

# Jonathan Lee

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## CONTACT INFORMATION

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## EDUCATION

**University of Western Ontario**, London, Ontario, Canada

Ph.D., Statistics (expected August 2013)

- Western Certificate in University Teaching (in progress)
- Cumulative GPA: 3.98

M.Sc., Statistics, August 2009

- MITACS Accelerate Internship at the University of Toronto
- Cumulative GPA: 3.89

**University of Waterloo**, Waterloo, Ontario, Canada

B.Math., Honours Statistics, April 2008

- Mathematics Teaching Option
- Computer Science Minor
- Co-operative Program
- Cumulative GPA (4th year): 3.77

**Queen's University**, Kingston, Ontario, Canada

B.Ed., Intermediate-Senior Education, April 2008

- Mathematics and Computer Science
- Gifted education
- Cumulative GPA: 4.00

## AWARDS AND SCHOLARSHIPS

**University of Western Ontario**, London, Ontario, Canada

- Ontario Graduate Scholarship (2012-2013)
- Statistical Society of Canada 2011 Student Research Presentation Award (2011)
- Ontario Graduate Scholarship (2011-2012)
- Ontario Graduate Scholarship in Science and Technology (2010-2011)
- MITACS Accelerate Internship (2009)
- Western Graduate Research Scholarship (2008 - 2012)
- Western Graduate Scholarship (2008 - 2012)
- Graduate Entrance Scholarship (2008 - 2009)

**University of Waterloo**, Waterloo, Ontario, Canada

- Mathematics Teaching Option Fellowship (2006 - 2007)
- René Descartes Scholarship (2003 - 2006)

## LANGUAGE SKILLS

- Fluent in English and Cantonese Chinese.
- Very comfortable with public speaking.
- Basic conversational Mandarin Chinese.
- Basic reading comprehension in French.

TECHNICAL  
SKILLS

Extensive experience with computers and numerous programming languages on a variety of operating systems:

- R/S-Plus
- MATLAB
- Java
- SAS
- HTML/JavaScript
- PHP/MySQL
- T<sub>E</sub>X (L<sup>A</sup>T<sub>E</sub>X)
- UNIX shell scripting
- Assembly (DLX)

Proficient in the usage of many web and software packages:

- Microsoft Office
- Adobe Creative Suite
- WebCT
- ArcInfo and other G.I.S. packages

TEACHING  
EXPERIENCE

**University of Western Ontario**, London, Ontario, Canada

*Teaching Assistant Training Program Instructor* **August 2010 to Present**

- Co-instructor for several sessions of the University of Western Ontario TATP workshop for graduate students.
- Lead micro-teaching groups; providing constructive feedback to aspiring teaching assistants.

*Sessional Lecturer* **September 2011 to December 2011**

- Instructor for first and second year undergraduate statistics courses.
- Supervised a team of teaching assistants to facilitate running the course.

*Teaching Assistant* **September 2008 to Present**

- Assisted professor in marking assignments and exams from students.
- Tutored students in the Statistics Help Centre and during office hours
- Gave feedback on student performance to professors to help improve future lessons.

*International Teaching Assistant Module Designer* **January 2010 to July 2010**

- Assisted the language & communication instructor in creating an online teaching module to assist international TAs in their duties.
- Met with groups of international TAs to determine their needs and expectations from such a module.

**Statistics Canada**, Ottawa, Ontario, Canada

*Assistant Education Outreach Advisor* **March 2007 to April 2007**

- Developed lessons for senior secondary school statistics classes.
- Created lesson plans and instructions for senior secondary school teachers.
- Visited classrooms as a guest speaker to test and refine lessons.
- Programmed interactive simulations to demonstrate various statistical concepts visually.
- Assisted statisticians in analyzing results of longitudinal surveys.

**Toronto District School Board**, Toronto, Ontario, Canada

*Secondary School Teacher Candidate* **September 2006 to March 2007**

- Taught senior mathematics and computer science classes at two secondary schools.
- Prepared lessons and marked assignments for a full course load of classes.

**University of Waterloo**, Waterloo, Ontario, Canada

*Computer Science Course Tutor* **January 2006 to December 2007**

- Assisted students in first-year computer science courses via tutorials and labs.
- Held extra help and exam review sessions.
- Programmed UNIX scripts for compiling and auto-marking assignments.
- Maintained and updated the course webpage.

*Learnware Designer* **January 2005 to April 2005**

- Updated and maintained **MathFROG** website as an ongoing project from University of Waterloo to assist elementary school students and teachers in learning and teaching math.
- Created lessons, worksheets and implemented online games into the website.
- Visited schools around the province as a guest speaker to instruct students and teachers on the proper use of the website.

RESEARCH  
EXPERIENCE

**University of Western Ontario**, London, Ontario, Canada

*Parallel computation of stochastic models* **September 2009 to Present**

- Develop an R package and framework to aid in parallel computation of lattice structure problems.
- Parallelize a lattice fire growth model as well as other spatial statistical algorithms.

**University of Toronto**, Toronto, Ontario, Canada

*Forest fire risk assessment* **September 2008 to August 2009**

- Worked with the Fire Management Laboratory to assess risk due to forest fire in the Muskoka, Ontario region through computer simulation.
- Collected and verified data through fieldwork.
- Modelled ignition and burn risk using generalized additive models to generate probability risk maps. Sampled property values to assess value at risk.
- Joint work as part of my M.Sc. project at the University of Western Ontario.

**University of Waterloo**, Waterloo, Ontario, Canada

*Automated cluster estimation* **September 2007 to January 2008**

- Developed two new techniques in cluster estimation.
- Programmed simulations to demonstrate effectiveness and robustness of techniques.
- Prepared and presented findings to other professors.

PEER REVIEWED  
PUBLICATIONS

- Braun, W.J., Jones, B.L., **Lee, J.S.W.**, Woolford, D.G., Wotton, B.M. (2010) Forest Fire Risk Assessment: A Case Study from Ontario, Canada. *Journal of Probability and Statistics*. Accepted.

NON-REFEREED  
CONTRIBUTIONS

- Braun, W.J., Jones, B.L., **Lee, J.S.W.**, Woolford, D.G., Wotton, B.M. (2009) Forest Fire Risk Assessment in Muskoka, Ontario. *Institute for Catastrophic Loss Reduction*. Technical report. (MSc work).

INVITED/ORGANIZED  
PRESENTATIONS

- *Greater Toronto Area R Users Group*, November 25, 2011, **Invited Speaker**, Ryerson University, Toronto, Ontario, Canada.
- *Statistics 2011 Canada/IMST 2011/FIM XX Conference*, July 1-4, 2011, **Invited Speaker**, Concordia University, Montreal, Quebec, Canada.
- *GEOIDE/MITACS Summer School on Spatial Statistics for Non-Gaussian Data*, May 20-22, 2011, **Organizer**, University of Western Ontario, London, Ontario, Canada.
- *Southern Ontario Statistics Graduate Students Seminar Days (SOSGSSD) 2011*, May 18-19, 2011, **Organizer, Presenter**, University of Western Ontario, London, Ontario, Canada.
- *TIES 2009 - 20th Annual Conference of The International Environmetrics Society*, July 5-9, 2009, **Invited Speaker**, University of Bologna, Bologna, Italy.

CONTRIBUTED  
PRESENTATIONS

- *Statistical Society of Canada 2012 Annual Meeting*, June 3-6, 2012, **Contributed presentation**, University of Guelph, Guelph, Ontario, Canada.
- *SHARCNET Research Day*, May 23, 2012, **Contributed presentation**, University of Guelph, Guelph, Ontario, Canada.
- *Global Geospatial Conference 2012*, May 14-17, 2012, **Poster Presentation**, Quebec City, Quebec, Canada.
- *Electronic Conference on Teaching Statistics 2012*, May 14-18, 2012, **Virtual Poster Presentation**, <http://www.causeweb.org>.
- *Statistical Society of Canada 2011 Annual Meeting*, June 12-15, 2011 **Poster Presentation**, Acadia University, Wolfville, Nova Scotia, Canada.
- *2011 Annual Scientific Conference - Geomatics Solutions to Guide Decision-Making*, May 16-17, 2011, **Poster Presentation and Co-authored Presentation**, Toronto, Ontario, Canada.
- *BIRS Workshop on Front Propagation in Heterogeneous Media*, October 17-22, 2010, **Presenter**, Banff International Research Station, Banff, Alberta, Canada.
- *Wildland Fire Canada 2010 Conference*, October 5-7, 2010, **Poster Presentation**, Kitchener, Ontario, Canada.
- *Biomathematics and Biostatistics Symposium 2009*, September 3, 2009, **Co-authored Presentation**, University of Guelph, Guelph, Ontario, Canada.
- *5th Annual MSc Days*, July 22, 2009, **Presenter**, University of Western Ontario, London, Ontario, Canada.

SHORT COURSES  
AND WORKSHOPS

- *AMPCamp 2012 Big Data Bootcamp*, August 21-22, 2012, **Participant**, UC Berkeley, California, United States.
- *GEOIDE/MITACS Summer School on Climate Models and Spatial Statistics*, July 26-30, 2010, **Participant**, Simon Fraser University, Burnaby, British Columbia, Canada.
- *Fields Workshop on Modelling Indirectly or Imprecisely Observed Data*, December 10-12, 2009, **Participant**, Fields Institute, University of Western Ontario, London, Ontario, Canada.
- *Mathematics and Spatial Statistics Fire (GEOIDE/MITACS) Summer Workshop*, June 22-23, 2009, **Participant**, Hinton Training Centre, Hinton, Alberta, Canada.
- *Mathematical and Statistical Descriptions of Forest Fire Spread: Spatial Statistics and Level Set Methods*, June 15-19, 2009, **Participant**, Hinton Training Centre, Hinton, Alberta, Canada.
- *Fields Workshop on Forest Fire Spotting*, April 23-24, 2009, **Participant**, Fields Institute, University of Toronto, Toronto, Ontario, Canada.

RELEVANT  
ACTIVITIES

- Invited contributor/presenter for the UWO Teaching Support Center outstanding Teaching Assistant website-video project.
- Invited marker for the University of Waterloo CEMC math contests (2006, 2008, 2009, 2010, 2011, 2012)
- Judge for the London District Science and Technology Fair (2009, 2010, 2011, 2012)
- Organizer of the Southern Ontario Statistics Graduate Students Seminar Days and Summer School on Spatial Statistics (May 2011)
- Judge for Orchard Park Public School Science Fair (February 2011)
- Judge for A.B. Lucas Secondary School Science Project Fair (June 2010)
- Graduate student representative, University of Western Ontario (2009-2010)
- Completed Teaching Assistant Training Program from the University of Western Ontario Teaching Support Centre, London, Ontario, Canada (September 2009)
- Frosh orientation leader, University of Waterloo (September 2004)