

Jonathan Wayne Lee
Building 380, 450 Serra Mall
Stanford, CA 94305-2125 U.S.A.
<http://math.stanford.edu/~jlee/>
jlee@math.stanford.edu
(Canadian citizen)

Education

Stanford University (2005–present)

Stanford, CA U.S.A.

Degree: Ph.D. in Mathematics, expected 2010

Advisor: Gunnar Carlsson

Thesis: The equivariant cohomology of upper-triangular square-zero matrices

University of Waterloo (2000–2004)

Waterloo, ON CANADA

Degree: Double Honours B.Math in Pure Mathematics and Computer Science

Honours: Graduated “With Distinction – Dean’s Honour List”

Awards and Fellowships

- A.J. Smortchevsky Fellowship (2007–current)
- NSERC Postgraduate Scholarship D3 (2007–2010) — \$21,000/year
- NSERC Canada Graduate Scholarship (declined)
- Mike Vangoch Memorial Award (2004, UWaterloo Pure Mathematics Department) — \$500
- NSERC Undergraduate Student Research Award (2002, 2003, 2004) — \$5,000
- Nortel Networks Undergraduate Scholarship (2000–2004, UWaterloo) — \$14,000

Publications

- (with F.-V. Kuhlmann and S. Kuhlmann) “Valuation bases for generalized algebraic series fields”, *Journal of Algebra*, **322**, 2009, pp. 1430–1453.
- (with J. Shallit) “Enumerating regular expressions and their languages”, *Proc. of Conference on Implementation and Application of Automata*, LNCS **3314**, pp. 2–22.

Teaching Experience

(student evaluations available on website)

Math 51 — Linear Algebra and Differential Calculus of Several Variables

(Winter 2010 forthcoming, Autumn 2008, Autumn 2007)

Teaching Assistant: twice a week, I led two hour-long discussion sections, of approximately 20 students each; these were coordinated with larger lecture sections. Other responsibilities included grading examinations and holding 3 office hours a week.

SUMaC — Stanford University Mathematics Camp (Summer 2007, Summer 2008)

Drop-in counselor: I tutored students during independent problem-solving sessions and otherwise provided general assistance during this month-long summer camp for mathematically-inclined high school students.

Math 42 — Calculus (Winter 2007)

Teaching Assistant: twice a week, I led two hour-long discussion sections, of approximately 20 students each; these were coordinated with larger lecture sections. Other responsibilities included grading examinations and holding 3 office hours a week.

Math 120 — Modern Algebra (Autumn 2006)

Course Assistant: I graded weekly written assignments.

Math 52 — Integral Calculus of Several Variables (Winter 2006)

Course Assistant: I graded written examinations.

Math 113 — Linear Algebra and Matrix Theory (Autumn 2005)

Course Assistant: I held office hours, graded written examinations and wrote model solutions.

Peer tutor — Linear Algebra and Calculus (September 2001–December 2003)

Tutor: for 3 hours a week, I worked in the math faculty's tutorial centre assisting students with first-year core classes.

Conferences attended

- AMS Special Session on Homotopy Theory and Higher Algebraic Structures (November 2009), UC Riverside
- Western Algebraic Geometry Seminar (April 2009), UC Berkeley
- Western Algebraic Geometry Seminar (November 2008), University of Utah
- Conference on Algebraic Cycles (March 2008), Ohio State University
- Workshop on the Homotopy Theory of Schemes (March 2007), Fields Institute
- CMS Summer Meeting (June 2005), University of Waterloo
- CMS Summer Meeting (June 2001), University of Saskatchewan

Other

Computer languages: C, C++, Python, Maple (primary); Java, Ruby (secondary)

Natural languages: English, Chinese (primary); French, German (secondary)

Music: 20 years of study as highly-accomplished classical pianist; active as soloist and chamber musician