

Contact Information

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Personal Information

Born: November 1983
Nationality: Canadian

Education

2002–2006 B.Sc. Mathematics and Physics University of Toronto
2006–2007 M.Sc. Mathematics University of Toronto
2007–2013 Ph.D. Mathematics University of Toronto
Dissertation: Constructions of Lie Groupoids
Advisers: Marco Gualtieri, Lisa Jeffrey

Employment History

- William Chauvenet Postdoctoral Lecturer
Washington University in Saint Louis 2013–Now
- Sessional Instructor
University of Toronto Fall 2011
- Teaching Assistant
University of Toronto 2005–2013

Short Term Visit

- University of Hong Kong April – May 2013

Research Publications

1. (with X. Tang and A. Stern) *Mechanics on fibered manifolds* arXiv:1511.00061
2. (with M. Gualtieri, A. Pelayo and T. Ratiu) *Tropical Moment Maps for Toric Log Symplectic Manifolds* Under review with Math. Ann. arXiv:1407.3300
3. (with M. Gualtieri and B. Pym) *The Stokes Groupoids* To appear in Crelle's journal. arXiv:1305.7288
4. (with M. Gualtieri) *Symplectic Groupoids of Log Symplectic Manifolds*. Int. Math. Res. Not. IMRN 2014, no. 11, 3022–3074. arXiv:1206.3674
5. *A new cohomology theory for log symplectic manifolds* in preparation
6. *Morita Equivalence of Log Symplectic Manifolds* in preparation
7. (with R.L. Fernandes and M. Gualtieri) *Topology of the Symplectic Groupoid of a Log Symplectic Surface* in preparation

Presentations

- AMS Sectional Meeting, University of Memphis October 2015
- Geometry Structure Lab, Fields Institute July 2015
- UIUC-WUSTL joint symplectic seminar, UIUC December 2014
- Gone Fishing Poisson Geom. Meeting, UC Berkeley November 2014
- Geometry Seminar, Washington Univ St Louis November 2014
- Geometry Seminar, Washington Univ St Louis March 2014
- AMS Sectional Meeting, Washington Univ St Louis October 2013
- Geometry Seminar, UIUC October 2013
- Gone Fishing Poisson Geometry Meeting, Temple Univ Sept 2013
- Geometry Seminar, University of Waterloo July 2013

- Geometry and Topology Seminar, University of Hong Kong May 2013
- Gone Fishing Poisson Geometry Meeting, UCLA September 2012
- Poisson 2012 (Poster), Utrecht University July 2012
- CMS Summer Meeting, University of Regina June 2012
- Symplectic Seminar, University of Montreal November 2011
- Symplectic Seminar, University of Toronto January 2011
- AMS Sectional Meeting, University of Notre Dame November 2010
- Canadian Undergrad Math Conference, McGill University July 2006

Honors and Awards

- Ontario Graduate Scholarship 2006-2007, 2011-2012
- University of Toronto Fellowship 2007-2011
- Queen Elizabeth II Scholarship 2002-2006

Teaching Experience

- 2015 Fall Math 217 Washington University
Ordinary differential equations
- 2015 Spring and 2013 Fall Math 318 Washington University
Rigorous multivariable calculus course
- 2014-2015 Math 5041/5043 Washington University
Graduate course in differential geometry and algebraic topology
- 2014 Spring Math 2200 Washington University
Elementary statistics
- 2012 Spring MAT1499 University of Toronto
Teaching large classes
A semester-long non-credit 2-hour-per-week course designed to train graduate students on how to teach large classes.

- 2011 Fall MAT188 University of Toronto
Engineering linear algebra
- 2005-2013 Teaching assistant University of Toronto
Calculus, multivariable calculus, linear algebra, real analysis, complex analysis, partial differential equations, combinatorics, cryptography

Other Publications

An interview with Fields medalist S.-T. Yau
University of Toronto Chinese Magazine Fall Issue 2005

Services, Outreach and Extracurricular Activity

- Washington University Math Circle
Fall 2013, Fall 2014 and Fall 2015
- Univ. of Toronto Math Department Chair Search Committee
Student Representative 2012-2013
- Univ. of Toronto Math Department Council
Student Representative 2010-2012
- Univ. of Toronto Math Graduate Student Seminar
Organizer 2010-2011
- Univ. of Toronto Chess Club
Treasurer 2009-2011
Communication Director 2008-2009