

Jonathan Love

FULL NAME: Love, Jonathan Richard

EMAIL: jonlove@stanford.edu

WEB: stanford.edu/~jonlove

PHONE: +1 (650) 686-1909

EDUCATION

- (PRESENT) PhD in MATHEMATICS, **Stanford University**
- NOV 2016 Master of Science in MATHEMATICS, **University of Toronto**
- APR 2015 Honours Bachelor of Science in MATHEMATICS, **University of Toronto**
- JUN 2011 High School, **Christian Academy in Japan**, Tokyo

PAPERS

- FEB 2020 "Rational Equivalences on Products of Elliptic Curves in a Family"
Preprint. <https://arxiv.org/abs/2003.02494>
- OCT 2019 "Supersingular Curves With Small Non-integer Endomorphisms"
Preprint. Joint with Dan Boneh. <https://arxiv.org/abs/1910.03180>
- Nov 2016 "Field Extensions Generated by Kernels of Isogenies"
Thesis, Master of Science. Supervised by Jacob Tsimerman.
<http://search.proquest.com/docview/1867748857/>

ACADEMIC TALKS

- FEB 2020 STANFORD UNIVERSITY Student Algebraic Geometry Seminar
Also Apr 2019.
- NOV 2019 PRINCETON UNIVERSITY Bhargava Seminar
- OCT 2019 INSTITUTE FOR ADVANCED STUDY (PRINCETON) Learning Seminar Series
- OCT 2019 PRINCETON UNIVERSITY Graduate Student Seminar
- APR 2019 STANFORD UNIVERSITY Graduate Student Seminar
Also Apr 2017, May 2018, Dec 2018.
- NOV 2017 UNIVERSITY OF TORONTO Math Union
Also Nov 2016, Oct 2015, Oct 2014.
- MAR 2013 UNIVERSITY OF TORONTO GANITA seminar

TEACHING POSITIONS

- JAN 2017 Teaching Assistant at STANFORD UNIVERSITY
– PRESENT Linear Algebra and Multivariable Calculus (MATH 51), Differential Equations (MATH 53), Modern Mathematics: Discrete Methods (MATH 62DM).
- SUMMER Mentor at CANADA/USA MATHCAMP
2018, 19 A 5-week long summer program for mathematically advanced high school students.
Developed curriculum for and taught 25 hours of course material each summer.
- SEP 2012 Teaching Assistant at UNIVERSITY OF TORONTO
– AUG 2016 Calculus (MAT135), Calculus (MAT137), Engineering Calculus (MAT187),
Groups, Rings, and Fields (MAT347).

MATH OUTREACH AND MENTORSHIP

- FEB 2020 Guest Speaker at GUNN HIGH SCHOOL MATH CIRCLE, Palo Alto
- MAR 2019 Guest Speaker at THE WILBERFORCE SCHOOL, Princeton
- APR 2017 Directed Reading Program Mentor at STANFORD UNIVERSITY
– PRESENT Worked with five undergraduate students on an individual basis.
- Nov 2015 Guest Speaker at UNIVERSITY OF TORONTO MISSISSAUGA Math Circle
Also Feb 2016, Apr 2015.
- OCT 2014 Pre-Concert Lecture for ARADIA ENSEMBLE, Toronto
- MAR 2015 Lecturer at MARCH BREAK MATH ACADEMY, Toronto, Canada
Also Mar 2014. 5 days, 7 hours per day. Hosted by UNIVERSITY OF TORONTO SCHOOLS.

WORK EXPERIENCE

See also [Teaching Positions](#).

- SEP 2016 Course Assistant at STANFORD UNIVERSITY
– PRESENT MATH 104, MATH 120.
- JUN – AUG 2015 Staff at CANADA/USA MATHCAMP
Also Jun – Aug 2014. Tasks included pre-camp preparation, planning special events and activities, communicating with the campus, and residential advising.
- SEP 2014 First-Year Learning Community Peer Mentor at UNIVERSITY OF TORONTO
– APR 2015 Running bi-weekly 80-minute sessions with first-year students, providing academic support, developmental training, and social activities.
- APR – JUN 2014 ESL Teacher at BELGRAVE ENGLISH SCHOOL, Tokyo, Japan
Also May – Aug 2013. After-school English classes for Japanese students from kindergarten through grade 12.
- MAY – AUG 2012 Web Designer/Information Architect at WORK OF YOUR HAND INTERNATIONAL DEVELOPMENT, Calgary, Canada
Database management, web design, online store management, and coding a point-of-sale system, using Excel, vba, HTML, and WordPress.

SCHOLARSHIPS AND AWARDS

- APR 2015 Gordon Cressy Student Leadership Award
- SEP 2011 – 14 J.S. McLean Scholarship (\$5,000)
- SEP 2012 – 14 University of Toronto Galois Scholarship in Mathematics (\$3,976)
- SEP 2013, 14 In-Course Beatty Scholarship (\$1,500)
- SEP 2013, 14 W.W. Sawyer Scholarship in Mathematics (\$1,492.34)
- SEP 2014 Norman Robertson Scholarship in Mathematics (\$4,000)
- MAR 2014, 15 1st place, UofT Undergraduate Mathematics Competition (\$200)
- DEC 2011, 13, 14 Top 500, William Lowell Putnam Mathematical Competition
- SEP 2013 Margaret R. & Thomas P. Taylor Award (\$3,485)
- SEP 2011 University of Toronto Scholar Award (\$5,000)

VOLUNTEER EXPERIENCE

- SEP 2017 Executive Member of INTERVARSITY GRADUATE CHRISTIAN FELLOWSHIP,
– PRESENT Stanford
Organizing biweekly events (inviting speakers, moderating discussions or workshops, etc.) and biannual retreats.
- SEP 2017 Organizer of FACULTY AREA RESEARCH SEMINAR, Stanford
– JUN 2018 Inviting Stanford math faculty to give expository talks about their research area.
- SEP 2015 Webmaster of MATH GRADUATE STUDENTS ASSOCIATION, University of
– APR 2016 Toronto
In charge of group e-mail announcements and updates to the online calendar and website. Uses rudimentary knowledge of SSH, HTML, CSS, Javascript, PHP.
- APR 2015 Treasurer of HART HOUSE CHORUS, University of Toronto
– APR 2016 Responsible for a budget proposal and defense, expense tracking, financial decision-making, and processing of reimbursements.
- APR 2012 Executive Member of UNIVERSITY OF TORONTO MATHEMATICS UNION
– APR 2015 President Apr 2012–Apr 2013, Program Representative Apr 2013–Apr 2014, and Treasurer Apr 2014–Apr 2015.
- SEP 2012 Assistant at THE ART PROJECT, Toronto
– MAR 2013 Weekly after-school program for children of low-income families. Included homework assistance and artistic activities.
- SEP 2011 Athletic Coordinator for UNIVERSITY COLLEGE RESIDENCE COUNCIL,
– APR 2012 University of Toronto
Organized social events with an emphasis on health and fitness.
- MAR 2011 Media Department Staff at CRASH JAPAN, Tokyo
An organization contributing to relief efforts after the March 11 earthquake and tsunami. Responsibilities included updating social media accounts and filming/editing interviews, conferences, and promotional videos.

LANGUAGES

- ENGLISH Native
JAPANESE Conversational

COMPUTER SKILLS

- BASIC vba, HTML, Python, Magma, Sage, css, PHP, Javascript
WORKING Excel, Word, PowerPoint, L^AT_EX, Mathematica, Magma