

CONTACT INFORMATION	W430 Math and Science Center Dept. of Mathematics and Computer Science Emory University Atlanta, GA 30322 USA	<i>Phone:</i> (+1) 510 508 0255 <i>Email:</i> david.zureick.brown@gmail.com <i>Web:</i> http://mathcs.emory.edu/~dzb
RESEARCH INTERESTS	Broad: Number Theory, Arithmetic Geometry, Algebraic Geometry. Specific: p -adic Cohomology, Galois Representations, Arithmetic of Varieties, Tropical geometry (especially applications to geometry and number theory) Stacks, Moduli, non-abelian techniques in arithmetic.	
APPOINTMENTS	Emory University Assistant Professor (tenure track) Fall 2011 - Present University of Wisconsin-Madison Van Vleck Assistant Professor (post doc) Fall 2010 - Spring 2011	
VISITING POSITIONS	University of Padua, Italy Visiting Bruno Chiarellotto, May 2012 (one month)	
EDUCATION	University of California , Berkeley, California USA Ph.D., Mathematics, August 2010 Dissertation Topic: "Rigid Cohomology for Algebraic Stacks" Adviser: Bjorn Poonen (MIT); co-advised by Brian Conrad (Stanford) Technical University of Budapest , Budapest, Hungary Budapest Semesters in Mathematics Two semesters of study (Spring 2002, Spring 2004). The University of Arizona , Tucson, Arizona USA B.S., Mathematics with Honors, December, 2003	
GRANTS	NSF Career (Emory University, \$416,997.00, 2016-2021) REU Site: Arithmetic Geometry and Number Theory (Emory University, Co-Pi, \$101,000, 2016-2019) NSF Award for the Arizona Winter School in Arithmetic Geometry (The University of Arizona, Co-PI, 2016-2019) CMI: Enhancement and Partnership Program Proposal; Arizona Winter School Southwest Center for Arithmetic Geometry (The University of Arizona, Co-PI, 2016-2017) NSA Young Investigator Grant (Emory University, \$40,000, 2011-2013)	
HONORS AND AWARDS	NDSEG National Defense Science and Engineering Graduate Fellowship (UC-Berkeley), Spring 2006 NSF National Science Foundation Graduate Research Fellowship (UC-Berkeley), Spring 2005 Goldwater Scholarship (The University of Arizona), Spring 2003	

- PUBLICATIONS
(PEER REVIEWED
JOURNAL ARTICLES)
1. **Primitive Integral Solutions to $x^2 + y^3 = z^{10}$** ; *International Mathematics Research Notices* IMRN 2012, no. 2, 423-436.
 2. **The Chabauty-Coleman bound at a prime of bad reduction and Clifford bounds for Geometric Rank Functions**; with Eric Katz; *Compositio Mathematica* 149 (2013), no. 11, 1818-1838.
 3. **Random Dieudonné modules, random p -divisible groups, and random curves over finite fields**; with Bryden Cais and Jordan Ellenberg; *J. Math. Inst. Jussieu* 12 (2013), no. 3, 651-676.
 4. **Integral Monsky-Washnitzer cohomology and the overconvergent de Rham-Witt complex**; with Christopher Davis; *Mathematical Research Letters* 21 (2014), No 2; 281-288.
 5. **Cohomological Descent on the Overconvergent Site**; *Research in the Mathematical Sciences*, 2014, 1:8; 20 pages.
 6. **Formal GAGA for Good Moduli Spaces**; with Anton Geraschenko; *Algebraic Geometry*, 2 (2015), no. 2, 214-230.
 7. **A heuristic for the distribution of point counts for random curves over a finite field**; with Jeffrey D. Achter, Daniel Erman, Kiran S. Kedlaya, Melanie Matchett Wood; *Philosophical Transactions of the Royal Society*, 2015, no. 373 2040310; 12 pages.
 8. **Elliptic curves over \mathbb{Q} and 2-adic images of Galois**; with Jeremy Rouse; *Research in Number Theory*, Volume 1, Issue 1, 2015; 34 pages.
 9. **Uniform bounds for the number of rational points on curves of small Mordell–Weil rank**; with Eric Katz and Joe Rabinoff, *Duke Mathematical Journal*, Volume 165, Number 16 (2016), 3189-3240.
- PUBLICATIONS
(ACCEPTED
PENDING
REVISIONS)
10. **Cohomology with closed support on the overconvergent site**; accepted to *Advances in Geometry* (conditionally, pending revisions; see referee report in my scholarly materials to confirm this); 36 pages.
- PUBLICATIONS
(SUBMITTED)
11. **The canonical ring of a stacky curve**; with John Voight; submitted to “Memoirs of the American Mathematical Society”, intended to be published as a book; 137 pages.
- PROCEEDINGS
(ACCEPTED)
12. **Diophantine and tropical geometry, and uniformity of rational points on curves**; with Eric Katz and Joe Rabinoff, Survey article for the 2015 Summer Research Institute on Algebraic Geometry Proceedings (accepted; see editorial email in my scholarly materials for confirmation).
- PUBLICATIONS
(THESIS)
13. **Rigid Cohomology for Algebraic Stacks**; David Brown; UC Berkeley thesis; 76 pages.
- PUBLICATIONS
(NON-MATH)
14. **Crack azimuths on Europa: The G1 lineament sequence revisited**; Alyssa R. Sarid, Richard Greenberg, Gregory V. Hoppa, David M. Brown Jr., and Paul Geissler; *Icarus*, 2005; 173 (2).
- INVITED TALKS
- Tropical Geometry and Uniformity of Rational Points**; Colloquium at Tufts University (Spring 2017)
- Tropical Geometry and Uniformity of Rational Points**; Conference talk at Lectures in Arithmetic Geometry at Rice (Spring 2017)

Tropical Geometry and Uniformity of Rational Points; Seminar talk at University of California, Berkeley (Spring 2017)

Tropical Geometry and Uniformity of Rational Points; Joint Mathematics Meetings in Atlanta, special session on “Minimal integral models of algebraic curves” (Winter 2017)

The canonical ring of a stacky curve; Seminar talk at University of Miami (Fall 2016)

The canonical ring of a stacky curve; Seminar talk at University of Kentucky (Fall 2016)

Fundamental groups and reconstruction theorems; Expository talk at “Kummer Classes and Anabelian Geometry” (focused on expositing Mochizuki’s proof of the ABC conjecture); University of Vermont (Fall 2016)

Sporadic cubic torsion; SERMON, James Madison University, (Spring 2016)

Progress on Mazur’s “Program B”; AMS Special Session on “Elliptic Curves”, University of Georgia (Spring 2016)

The canonical ring of a stacky curve; Seminar talk at University of Tennessee (Spring 2016)

Uniformity and Tropical Geometry; Colloquium at University of Tennessee (Spring 2016)

The canonical ring of a stacky curve; Seminar talk at University of Oregon (Fall 2015)

Uniformity and Tropical Geometry; Colloquium at University of Oregon (Fall 2015)

Uniformity and Tropical Geometry; Number Theory Seminar, UW-Madison (Fall 2015)

Hilbert schemes of canonically embedded curves of low genus; Geometry Seminar, UW-Madison (Fall 2015)

Uniformity and Tropical Geometry; AIM workshop Degenerations in algebraic geometry (Summer 2015)

The canonical ring of a stacky curve; 2015 AMS summer institute in Algebraic Geometry, Utah (Summer 2015)

Uniformity and Tropical Geometry; Coleman Memorial Conference (Spring 2015)

Uniformity and Tropical Geometry; Colloquium at University of Copenhagen (Spring 2015)

Diophantine and Tropical Geometry; Cornell Number Theory Seminar (Spring 2015)

Diophantine and Tropical Geometry; UIC Number Theory Seminar (Spring 2015)

Diophantine and Tropical Geometry; Stanford Number Theory Seminar (Spring 2015)

Diophantine and Tropical Geometry; Duke Number Theory Seminar (Spring 2015)

Uniformity and Tropical Geometry; SERMON, Winthrop University, (Spring 2015)

Diophantine and Tropical Geometry; UC-Boulder Colloquium (Spring 2015)

The canonical ring of a stacky curve; UC-Boulder Algebraic Geometry Seminar (Spring 2015)

Diophantine and Tropical Geometry; UW-Madison Colloquium (Spring 2015)

The canonical ring of a stacky curve; UW-Madison Number Theory Seminar (Spring 2015)

Gauss composition and integral arithmetic invariant theory; AMS Special Session on “Connections in Number Theory” Greensboro, NC (Fall 2014)

The canonical ring of a stacky curve; AMS Special Session on “Automorphic forms and related topics” Greensboro, NC (Fall 2014)

Tropical geometry, p -adic integration, and uniformity; AMS Special Session on “Combinatorics and Algebraic Geometry”, San Francisco, CA (Fall 2014)

The canonical ring of a stacky curve; University of Virginia, VA (Fall 2014)

Overconvergent de Rham-Witt cohomology and algebraic stacks; AMS special session on “Arithmetic and Differential Algebraic Geometry”, Albuquerque, NM (Spring 2014)

Rational points on curves and tropical geometry; BIRS Workshop on “Specialization of Linear Series for Algebraic and Tropical Curves”, Banff, Canada (Spring 2014)

Rational points on curves and tropical geometry; AMS special session on “Arithmetic of Algebraic Curves”, Knoxville, TN (Spring 2014)

The canonical ring of a stacky curve; University of South Carolina, SC (Spring 2014)

Rational points on curves and tropical geometry; Joint Mathematics Meetings in Baltimore, special session on “Tropical and Nonarchimedean Geometry” (Spring 2014)

Abelian varieties with maximal monodromy; Clemson Number Theory Seminar (Fall 2013)
Elliptic curves over \mathbb{Q} and 2-adic images of Galois representations; PANTS; Davidson, NC (Fall 2013)
Elliptic curves over \mathbb{Q} and 2-adic images of Galois representations; SIAM Conference on Applied Algebraic Geometry at Colorado State University (Fall 2013)
Beyond Fermat's last theorem; Wake Forest University Colloquium (Spring 2013)
Explicit Modular approaches to Generalized Fermat Equations; University of Arizona Colloquium (Spring 2013)
Abelian Varieties with Maximal Monodromy; University of Arizona Number Theory Seminar (Spring 2013)
Families of abelian varieties with maximal monodromy; AMS special session on Monodromy, Denver, CO (Spring 2013)
Overconvergent de Rham-Witt Cohomology for Algebraic stacks; Joint mathematics meeting, special session on Witt Vectors, San Diego, CA, (Winter 2013)
Abelian Varieties with Maximal Monodromy; Joint mathematics meeting, special session on Geometry and Number Theory, San Diego, CA, (Winter 2013)
Random Dieudonné Modules; Workshop: Arithmetic of abelian varieties in families, EPFL, Lausanne, Switzerland (Fall 2012)
Explicit Modular approaches to Generalized Fermat Equations; Georgia Tech Number Theory Seminar, Atlanta, GA, (Fall 2012)
Random Dieudonné Modules; PANTS XVIII, Wake Forest, NC (Fall 2012)
Abelian Varieties with Maximal Monodromy; Colorado State Number Theory Seminar, Ft. Collins, Colorado (Fall 2012)
Algebraic Stacks and p -adic Cohomology; Series of 4 lectures, Padua (Summer 2012)
Abelian Varieties with Maximal Monodromy; Number Theory Seminar, UC Berkeley (Spring 2012)
Abelian Varieties with Maximal Monodromy; Number Theory Seminar, UC Irvine (Spring 2012)
Random Dieudonné Modules; AMS special session on Arithmetic Geometry, University of Hawaii, Honolulu (Spring 2012)
Rigid Cohomology for Algebraic Stacks; New York Joint Number Theory Seminar, CUNY (Spring 2012)
Abelian Varieties with Maximal Monodromy; Number Theory Seminar, UGA (Spring 2012)
Random Dieudonné Modules; Joint Meetings, special session on Rational Points on Varieties (Winter 2012)
Rigid Cohomology for Algebraic Stacks; Joint Meetings, special session on Arithmetic Geometry (Winter 2012)
Random Dieudonné Modules; Number Theory Seminar, Harvard University (Fall 2011)
Rigid Cohomology for Algebraic Stacks; Algebraic Geometry Seminar, Caltech. (Fall 2011)
Random Dieudonné Modules; Athens-Atlanta Joint Number Theory Seminar (Georgia Tech) (Fall 2011)
Explicit Modular approaches to Generalized Fermat Equations; AMS special session on Modular Forms and Elliptic Curves, Wake Forest University, NC (Fall 2011)
Explicit Modular approaches to Generalized Fermat Equations; Emory University Colloquium, Emory University (Spring 2011)
Explicit Modular approaches to Generalized Fermat Equations; UW-Madison Number Theory Seminar, UW Madison. (Spring 2011)
Rigid Cohomology for Algebraic Stacks; Algebraic Geometry Seminar, Rice University. (Spring 2011)
Rigid Cohomology for Algebraic Stacks; Fall Southeastern AMS Section Meeting, Special Session on Applications of Non-Archimedean Geometry; Richmond; VA (Fall 2010) (Fall 2010)

Rigid Cohomology for Algebraic Stacks; UW-Madison Number Theory Seminar, UW Madison. (Fall 2010)

Rigid Cohomology for Algebraic Stacks; Berkeley Number Theory Seminar, UC Berkeley. (Spring 2010)

Rigid Cohomology for Algebraic Stacks; Algebraic Geometry Seminar, UBC. (Spring 2010)

Explicit Modular approaches to Generalized Fermat Equations.; Number Theory Seminar, UBC. (Spring 2010)

Explicit Modular approaches to Generalized Fermat Equations.; Number Theory Seminar, Stanford. (Spring 2010)

The Chabauty-Coleman bound at a prime of bad reduction; Berkeley Number Theory Seminar, UC Berkeley. (Spring 2008)

The Galois Group of Cyclotomic Fields of Fermat Primes; Budapest Semesters Reunion, Budapest, Hungary. (Summer 2005)

PUBLIC
PRESENTATIONS

Beyond Fermat's Last Theorem; Georgia State math club, Georgia State University. (Spring 2015)

Mathoverflow; ScienceOnline2013, Raleigh, NC, (Spring 2013)

Beyond Fermat's Last Theorem; EUMMA (Emory Undergraduate Uathematics Major Association, Emory University. (Spring 2012)

Mathoverflow; Special Lunch Seminar, Rice University. (Spring 2011)

TEACHING
EXPERIENCE
(EMORY)

Emory University, Atlanta, GA
Assistant Professor.

Undergraduate

- Honors Linear Algebra (Math 275, Fall 2016); co-developed the course.
- Abstract Algebra I (Math 421, Fall 2016)
- Foundations of Mathematics (Math 250, Spring 2016)
- Abstract Algebra II (Math 422, Spring 2015)
- Abstract Algebra I (Math 421, Fall 2014)
- Elliptic Curves reading course (8 undergraduates, Spring 2014); developed the course.
- Foundations of Mathematics (Math 250, Fall 2013, 2 lectures)
- Foundations of Mathematics (Math 250, Fall 2012, 2 lectures)
- Linear Algebra (Math 221, Spring 2012)
- Foundations of Mathematics (Math 250, Fall 2011)

Graduate

- Algebraic Topology II (Math 544, Spring 2016)
- Local Class Field Theory (graduate topics course, Fall 2014)
- Algebraic Topology II (Math 544, Spring 2014)
- Stacks (graduate topics course, Fall 2012)

TEACHING
EXPERIENCE
(OTHER)

University of Wisconsin, Madison, Madison, Wisconsin USA
Van Vleck Assistant Professor.

- CURL (Collaborative Undergraduate Research Lab, Math 490), Spring 2011; see <http://www.mathcs.emory.edu/~dzb/teaching/490Spring2011/> for details.
- Calculus I (Math 221), Fall 2010

University of California, Berkeley, Berkeley, California USA

Graduate Student Instructor. Led discussion sections (3 hours per week per section). Wrote weekly quizzes, graded quizzes and exams, and held office hours.

- Calculus II (Math 1B), Spring 2005
- Calculus I (Math 1A), Fall 2004
- Multivariable Calculus I (Math 53), Fall 2006

Ha:San High School, Tucson, AZ

Fall 2002 - Spring 2003

CATTS (Collaboration to Advance Teaching, Technology and Science) Fellowship. Used fellowship to spend 15 hours a week in a local Native American high school as a teaching assistant for two classes (one Algebra 1 and one Geometry) and helped to develop science curriculum and projects geared toward students with weak math and science backgrounds.

REU (RESEARCH
EXPERIENCES FOR
UNDERGRADUATES)

Emory University NSF REU in Number Theory, Atlanta, GA

- Advised 18 students (Summer 2011-present)

UW-Madison NSF REU in Number Theory, Madison, Wisconsin USA

- Advised 2 students (Summer 2010)

AWARDS

Residence Halls Honored instructor (UW-Madison), Fall 2010

ADVISING

Ph.D. Students

- Anastassia Etropolski (2016), "Rational Points on Curves", Postdoc at Rice
- McKenzie West (2016), "Brauer-Manin Computations for Surfaces"; Postdoc at Reed
- Charles Morrissey (expected 2017)
- Jackson Morrow (expected 2020)

Joint MS/BS students

- Noam Kantor (MS/BS expected 2017); Goldwater fellow and Marshall Scholarship winner
- William Baker (MS/BS 2016), "The Log canonical ring of a graph curve", Ph.D. candidate at UCLA
- Dalton Bidleman (MS/BS 2014), "Toric rank functions on graphs"; Epic software, Madison, WI

Masters students

- Jackson Morrow (MS 2016), "Topics in Elliptic curves", Ph.D. candidate at Emory

Ph.D. committee service

- (2017) Reed Gordon-Sarney; Advisor: Parimala
- (2016) Amanda Clemm; Advisor: Ken Ono
- (2016) Zhengyao Wu; Advisor: Suresh Venapally
- (2016) Nivedita Bhaskhar; Advisor: Parimala
- (2015) Michael Griffin; Advisor: Ken Ono
- (2013) Larry Rolen; Advisor: Ken Ono
- (2013) Robert Lemke Oliver; Advisor: Ken Ono
- (2013) Farbod Shokrieh; Advisor: Matt Baker
- (2013) Spencer Backman; Advisor: Matt Baker
- (2013) Ye Luo; Advisor: Matt Baker

Undergraduates (Emory REU)

- (2016) Ashvin Swaminathan
- (2016) James Tao
- (2016) Yujie Xu
- (2015/16) Aaron Landesman, (Morgan Prize honorable mention),

- (2015) Peter Ruhm
- (2015) Robin Zhang
- (2014) Evan O’Dorney (Morgan Prize honorable mention),
- (2014) Benjamin Gunby
- (2014) Alexander Smith
- (2014) David Yang (Morgan Prize Winner)
- (2014) Allen Yuan
- (2013) Akhil Mathew (Morgan Prize honorable mention)
- (2013) Jesse Silliman
- (2013) Isabel Vogt
- (2012) David Corwin
- (2012) Tony Feng
- (2012) Zane Li
- (2012) Sarah Trebat-Leder
- (2010/13) Eric Larson (Morgan Prize Winner)
- (2010) Dmitry Vaintrob

Undergraduates (Non REU)

- Henry Yelin (Emory University); advised a research project; Spring 2012 - Spring 2014
- Jackson Morrow (Emory University); advising a research project; Fall 2012 - Spring 2014
- Larry Rolen (UW Madison); co-advised a research project; Fall 2010

Ph.D. Thesis Committees (Emory, mathematics)

- (2016) Amanda Clemm; Advisor: Ken Ono
- (2016) Zhengyao Wu; Advisor: Suresh Venapally
- (2016) Nivedita Bhaskhar; Advisor: Parimala
- (2015) Michael Griffin; Advisor: Ken Ono
- (2013) Larry Rolen; Advisor: Ken Ono
- (2013) Robert Lemke Oliver; Advisor: Ken Ono

Ph.D. Thesis Committees (Georgia Tech, mathematics)

- Spencer Backman (under Matt Baker, 2014)
- Ye Luo (under Matt Baker, 2014)
- Farbod Shokreih (under Matt Baker, 2013)

Honors and MS/BS Committees (Emory)

- Shannon Buckley (Honors Thesis, Applied Math, under Alessandro Veneziani, 2014)
- Hyewon Yoon (Honors Thesis, Economics, under Andrew Francis, 2014)
- Tyler Shuman (MS/BS, Political Science, under Shawn Rameriez, 2014)

SYNERGISTIC
ACTIVITIES

MathOverflow (2009, with Anton Gerashenko)

Created a highly successful math Q&A/discussion website (<http://mathoverflow.com>). President of the MathOverflow board of Directors.

SERVICE
(UNIVERSITY)

- Math and CS Honors and MS/BS coordinator (Fall 2016-present)
- Math and CS “Last Call admissions counsel” pilot (Spring 2015/16)
- Budapest Semesters in Mathematics; math faculty contact and CIPA originator (Spring 2015-present)
- Emory’s Algebra Seminar, main organizer (Fall 2012-present)
- Undergraduate Committee (Fall 2012-present)
- Major advising; 80 undergraduate advisees (Fall 2012-present)
- PACE advising (Fall 2012-present)

Honors/Masters thesis committees

- Ethan Alwaise, (MS/BS, Pure Math, under Ken Ono, 2017)
- Kevin Sheng, Math (Advisor: Ken Ono), Honors (Spring 2016)
- Hanqiu Xia, Applied Math (Advisor: Jim Nagy), Honors (Spring 2015)
- Shannon Buckley, Applied Math (Advisor: Alessandro Veneziani), Honors (Spring 2014)
- Hyewon Hoon, Economics (Advisor: Andrew Francis), Honors (Spring 2014)
- Tyler Shuman, Political Science (Advisor: Shawn Ramirez), MS/BS (Spring 2014)

SERVICE
(COMMUNITY)

Arizona Winter School:

- Scientific Organizer; Topic: Perfectoids (Spring 2017)
- Main Scientific Organizer (w/Alina Buçur); Topic: Analytic methods in Arithmetic Geometry (Spring 2016)
- Organizer and advisory board (Fall 2014-present)
- Project leader w/ Jordan Ellenberg (Spring 2014).
- Project leader w/ Ravi Vakil (Spring 2015).

Other Conference organization:

- Georgia Algebraic Geometry Symposium; co-organizers: Parimala, Suresh Venapally (Fall 2015)
- Palmetto Number Theory Series XXIV; co-organizer: Ken Ono (Fall 2015)

Committees:

- AMS Sectional Meetings Travel Grants Committee (2016-2020).

Refereeing for Algebra and Number Theory, Algebraic Geometry, Algorithmic Number Theory Symposium, Crelle, Compositio, Discrete & Computational Geometry International Journal of Number Theory, International Mathematics Research Notices, Journal de Théorie des Nombres de Bordeaux, Journal of the European Mathematical Society, Journal Math. Inst. Jussieu, Mathematics of Computation, Mathematics Research Letters, Mathematische Zeitschrift, Monatshefte für Mathematik, Proceedings of the American Mathematical Society, Proceedings of the London Mathematical Society, Research in Number Theory, Research in the Mathematical Sciences, and Transactions of the American Mathematical Society.

Reviewer for Math Reviews (since 2012).

Reviewer for the National Security Agency (since 2015).

Reviewer for the Israel Science Foundation (since 2017).

Panelist for the National Science Foundation (2016).

SERVICE (PREVIOUS
DEPARTMENTS)

UW-Madison Number Theory Seminar; co-organized with Bryden Cais. (Fall 2010-Spring 2011)

UW-Madison Graduate Participation Seminar; co-organized with Bryden Cais. In this seminar the students give a ‘warm up talk’ for the week’s number theory seminar talk. (Fall 2010-Spring 2011)

Arithmetic Geometry and Moduli Spaces in Algebraic Geometry; Zhejiang University in Hangzhou, China. Planned and ran tutorial sessions. (Summer 2009)

Berkeley Student Algebraic and Arithmetic Geometry Seminar; with Dan Erman and Tony Varilly (Spring and Fall 2008)

Deformation Theory Workshop; MSRI. Ran problem sessions. (Summer 2007)

Student Number Theory Seminar; with Tony Varilly. UC Berkeley. (Spring 2007)

Many Cheerful Facts (UC Berkeley’s graduate student colloquium); with Adam Booth. (Spring and Fall 2005)

SOFTWARE SKILLS Proficient in Magma and Unix/Bash

MORE INFO Visit mathcs.emory.edu/~dzb for more detailed information, including preprints and course webpages.

REFERENCES

Bjorn Poonen

Department of Mathematics
MIT
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poonen@math.mit.edu

Brian Conrad

Department of Mathematics
Stanford University
Stanford, CA 94305
conrad@math.stanford.edu

Jordan Ellenberg

Department of Mathematics
UW-Madison
Madison, WI 53706
ellenber@math.wisc.edu

Martin Olsson

Department of Mathematics
The University of California
Berkeley, CA 94720-3840
molsson@math.berkeley.edu