

Robert J.S. McDonald – Curriculum Vitae
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Education

University of Connecticut <i>Doctoral Program in Mathematics</i> Thesis Advisor: Álvaro Lozano-Robledo Thesis Title: <i>Torsion Subgroups of Elliptic Curves over Function Fields</i> Research Interests: algebraic number theory, arithmetic geometry, elliptic curves, Galois representations	Storrs, CT 2013 – Present
Eastern Connecticut State University <i>Undergraduate Program, B.S. in Mathematics</i>	Willimantic, CT 2006 – 2007, 2011 – 2013
Quinebaug Valley Community College <i>Undergraduate program, A.S. in Engineering Science</i>	Danielson, CT 2008 – 2011

Honors

University of Connecticut: Summer Research Fellowship	March 2018
University of Connecticut: Doctoral Dissertation Fellowship	December 2017
University of Connecticut: Connie Strange Graduate Community Award	May 2016

Teaching Experience

University of Connecticut <i>Instructor & Teaching Assistant</i>	Storrs, CT 2013 – Present
Instructor Summer 2015: BRIDGE Calculus Spring 2016: Calculus for Business Fall 2016: Calculus for Business Fall 2017: Calculus for Business Spring 2018: Calculus for Business Fall 2018: Applied Linear Algebra	Teaching Assistant Fall 2013: Calculus II Spring 2014: Calculus II Fall 2014: Calculus II Spring 2015: Calculus I Fall 2015: Calculus II Summer 2016: CTNT Summer School GA Summer 2016: Calculus for Business Spring 2017: Calculus II Summer 2018: CTNT Summer School GA
Eastern Connecticut State University <i>Internship in College Teaching – Geometry</i>	Willimantic, CT Fall 2012

Papers (available at <https://mathrjms.com/#research>)

Torsion Subgroups of Elliptic Curves over Function Fields of Genus 0

(in [Journal of Number Theory Volume 193](#))

Torsion Subgroups of Elliptic Curves over Function Fields of Genus 1 (draft)

Talks Given

Seminar Talks

Torsion of Elliptic Curves over Function Fields of Genus 0 and 1 March 5, 2019

Five College Number Theory Seminar, Amherst College

Torsion Subgroups of Elliptic Curves over Function Fields November 28, 2018

Algebra Seminar, University of Connecticut

Torsion Subgroups of Elliptic Curves over Function Fields December 11, 2017

Number Theory Seminar, Boston University

ABC and Fermat for Polynomials April 1, 2017

SIGMA Seminar, University of Connecticut

The Fermat Equation for Polynomials Spring 2017

Undergraduate Math Club Talk, University of Connecticut

Conference Talks

Torsion Subgroups of Elliptic Curves over Function Fields of Genus 1 April 14, 2019

1148th AMS Sectional Meeting, Hartford, CT

Torsion Subgroups of Elliptic Curves over Function Fields January 19, 2019

2019 Joint Math Meetings, Baltimore, MD

Torsion Subgroups of Elliptic Curves over Function Fields March 20, 2018

2018 Automorphic Forms Workshop, Tufts University

Torsion Subgroups of Elliptic Curves over Function Fields of Genus 0 October 14, 2017

Maine-Québec Number Theory Conference, University of Maine

Conferences and Workshops Attended

1148th AMS Sectional Meeting April 2019

University of Connecticut Hartford, Hartford, CT

Northeast Consortium for Quantitative Literacy XXII Meeting March 2019

Bay Path University, Longmeadow, MA

2019 Joint Math Meetings January 2019

Baltimore, MD

Connecticut Summer School in Number Theory (CTNT) May 2018

University of Connecticut, Storrs, CT

Automorphic Forms Workshop March 2018

Tufts University, Boston, MA

Arizona Winter School: Iwasawa Theory March 2018

University of Arizona, Tucson, AZ

Maine-Québec Number Theory October 2017

University of Maine, Orono, ME

MSRI Summer School: Automorphic Forms and Langlands Program July/August 2017

MSRI, Berkeley, CA

Seventh Upstate New York Number Theory Conference May 2017

Binghamton University, Binghamton, NY

Arizona Winter School: Perfectoid Spaces <i>University of Arizona, Tucson, AZ</i>	March 2017
Connecticut Summer School in Number Theory <i>University of Connecticut, Storrs, CT</i>	August 2016
Arizona Winter School: Arithmetic Geometry <i>University of Arizona, Tucson, AZ</i>	March 2016
BU/Keio University Workshop 2015 <i>Boston University, Boston, MA</i>	September 2015
Elliptic Curves @ UConn <i>University of Connecticut, Storrs, CT</i>	May 2014
Advanced Technological Education (ATE) 2013 Conference <i>American Association of Community Colleges, Washington DC</i>	Fall 2013

Service

Directed Reading Program, UConn Math Dept. <i>Mentor</i>	Spring 2018 – Present
Graduate Student Mentor Program, UConn Math Dept. <i>TA Network Coordinator</i>	Summer 2015 – Present
<i>Mentor</i>	August 2014 – Present
New Teaching Orientation, UConn Math Dept. <i>Speaker</i>	Fall 2014 – 2017
<i>Mentor</i>	Fall 2014 – 2017
Panelist	
Applying to Grad School, Finding an Advisor – <i>CTNT Conference, UConn</i>	June 1, 2018
Fall 2017 Investigations in STEM Forum – <i>Three Rivers Community College</i>	December 4, 2017
Grad Life Q&A – <i>SIGMA Seminar, UConn</i>	February 2, 2017
Choosing a Thesis Advisor – <i>SIGMA Seminar, UConn</i>	April 21, 2016
Studying for Preliminary Exams – <i>SIGMA Seminar, UConn</i>	December 11, 2015
Preparing for Math Graduate School – <i>Math Club, UConn</i>	April 22, 2015
Spring 2014 Investigations in STEM Forum – <i>Quinebaug Valley CC</i>	April 21, 2014
Poster Session, ATE 2013 Conference	October 24, 2013

References

Keith Conrad, kconrad@math.uconn.edu
Thomas DeFranco, tom.defranco@uconn.edu (Teaching Reference)
Álvaro Lozano-Robledo, alvaro.lozano-robledo@uconn.edu
Amit A. Savkar, amit.savkar@uconn.edu (Teaching Reference)
Liang Xiao, liang.xiao@uconn.edu