Robert J.S. McDonald - Curriculum Vitae

Department of Mathematics, Yale University 10 Hillhouse Ave, New Haven, CT 06511, USA 1-(860)-608-3329 | robert.j.mcdonald@yale.edu http://mathrjsm.com/

Education

University of Connecticut Doctoral Program in Mathematics Thesis Advisor: Álvaro Lozano-Robledo Storrs, CT 2013 – 2019

Thesis Title: Torsion Subgroups of Elliptic Curves over Function Fields

Research Interests: algebraic number theory, arithmetic geometry, elliptic curves, Galois representations

Eastern Connecticut State University Undergraduate Program, B.S. in Mathematics Quinebaug Valley Community College Willimantic, CT 2006 - 2007, 2011 - 2013 Danielson, CT

Undergraduate program, A.S. in Engineering Science

Honors

University of Connecticut:	Louis J. DeLuca Outstanding Teaching Assistant Award	April 2019
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

Yale University	New Haven, CT
Lecturer	Fall 2019 – Present

Fall 2019: Integral Calculus Fall 2019: Multivariable Calculus

University of Connecticut

Instructor & Teaching Assistant

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

Internship in College Teaching - Geometry

Willimantic, CT

Fall 2012

2008 - 2011

Storrs, CT

2013 - Present

Papers (available at https://mathrjsm.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	1.6\
(submitted, current draft: https://mathrjsm.com/TorsionFunctionFieldsGenus1.	pdf)
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	N 1 00 0010
Torsion Subgroups of Elliptic Curves over Function Fields	November 28, 2018
Algebra Seminar, University of Connecticut	D
Torsion Subgroups of Elliptic Curves over Function Fields	December 11, 2017
Number Theory Seminar, Boston University	Annil 1 2017
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	Spring 2017
Conference Talks	
Torsion Subgroups of Elliptic Curves over Function Fields of Genus 1	April 14, 2019
AMS Sectional Meeting, Hartford, CT	r ,
Torsion Subgroups of Elliptic Curves over Function Fields	January 19, 2019
2019 Joint Math Meetings, Baltimore, MD	v
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 Worldbarn Attended	
Conferences and Workshops Attended	
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	T 2010
2019 Joint Math Meetings	January 2019
Baltimore, MD	M 0010
Connecticut Summer School in Number Theory (CTNT)	May 2018
University of Connecticut, Storrs, CT Automorphic Forms Workshop	Manala 2019
Tufts University, Boston, MA	March 2018
Arizona Winter School: Iwasawa Theory	March 2018
University of Arizona, Tucson, AZ	March 2016
Maine-Québec Number Theory	October 2017
University of Maine, Orono, ME	OCTODE: 2017
MSRI Summer School: Automorphic Forms and Langlands Program	July/August 2017
MSRI, Berkeley, CA	Jan, / 1248400 2011

Seventh Upstate New York Number Theory Conference	May 2017
Binghamton University, Binghamton, NY	M. 1 2017
Arizona Winter School: Perfectoid Spaces	March 2017
University of Arizona, Tucson, AZ	A + 201 <i>C</i>
Connecticut Summer School in Number Theory	August 2016
University of Connecticut, Storrs, CT	Ml- 2016
Arizona Winter School: Arithmetic Geometry	March 2016
University of Arizona, Tucson, AZ	Contambon 2015
BU/Keio University Workshop 2015	September 2015
Boston University, Boston, MA	M 2014
Elliptic Curves @ UConn	May 2014
University of Connecticut, Storrs, CT	E-11 2012
Advanced Technological Education (ATE) 2013 Conference	Fall 2013
American Association of Community Colleges, Washington DC	
Service	
Directed Reading Program, UConn Math Dept.	
Mentor	Spring $2018 - Spring 2019$
Graduate Student Mentor Program, UConn Math Dept.	
TA Network Coordinator	Summer $2015 - Spring 2019$
Mentor	Fall 2014 – Spring 2019
New Teaching Orientation, UConn Math Dept.	
Speaker	Fall 2014 – Fall 2017
Mentor	Fall 2014 – Fall 2017
Panelist	
Applying to Grad School, Finding an Advisor – CTNT Conference, UCa	onn June 1, 2018
Fall 2017 Investigations in STEM Forum – Three Rivers Community Col	llege December 4, 2017
Grad Life Q&A – $SIGMA$ Seminar, $UConn$	February 2, 2017
Choosing a Thesis Advisor – SIGMA Seminar, UConn	April 21, 2016
Studying for Preliminary Exams – SIGMA Seminar, UConn	December 11, 2015
Preparing for Math Graduate School – Math Club, UConn	April 22, 2015
Spring 2014 Investigations in STEM Forum – Quinebaug Valley CC	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, xiaoliangmit@gmail.com