

Robert J.S. McDonald – Curriculum Vitae
Department of Mathematics, University of Connecticut, U-1009
341 Mansfield Road, Storrs, CT 06269-1009, USA
1-(860)-608-3329 | robert.j.mcdonald@uconn.edu
<http://mathrjism.com/>

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 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>Teaching Assistant – Geometry</i>	Willimantic, CT

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

(in draft form)

Talks Given

Seminar Talks

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 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

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 March 2017

University of Arizona, Tucson, AZ

Connecticut Summer School in Number Theory August 2016

University of Connecticut, Storrs, CT

Arizona Winter School: Arithmetic Geometry March 2016

University of Arizona, Tucson, AZ

BU/Keio University Workshop 2015 September 2015

Boston University, Boston, MA

Elliptic Curves @ UConn May 2014

University of Connecticut, Storrs, CT

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 – Present

Graduate Student Mentor Program, UConn Math Dept.

TA Network Coordinator

Summer 2015 – Present

Mentor

August 2014 – Present

New Teaching Orientation, UConn Math Dept.

Speaker

Fall 2014 – 2017

Mentor

Fall 2014 – 2017

Panelist

Applying to Grad School, Finding an Advisor – *CTNT Conference, UConn*

June 1, 2018

Fall 2017 Investigations in STEM Forum – *Three Rivers Community College*

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, liang.xiao@uconn.edu