Michael Chou

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Employment

Salve Regina University   **Newport, RI**
Assitant Professor   *2019–present*
Research Interests: Number Theory, elliptic curves, arithmetic geometry, arithmetic statistics

Tufts University   **Medford, MA**
Norbert Wiener Assistant Professor   *2017–2019*

Education

University of Connecticut   **Storrs, CT**
Doctoral program in Mathematics   *2012–2017*
Thesis Advisor: Álvaro Lozano-Robledo

University of Arizona   **Tucson, Arizona**
Masters program in Mathematics   *2011–2012*

Wesleyan University   **Middletown, CT**
Undergraduate program, B.A. in Mathematics   *2007–2011*

Research Publications

1: With P. Clark, M. Milosevic

Acyclotomy of torsion in the CM Case, submitted.

2: (With H. B. Daniels, I. Krijan, F. Najman) *Torsion groups of elliptic curves over the $\mathbb{Z}_p$-extensions of $\mathbb{Q}$*, submitted, ArXiV link: https://arxiv.org/abs/1808.05243

3: *Torsion of rational elliptic curves over the maximal abelian extension of $\mathbb{Q}$*, accepted, to appear in Pacific Journal of Mathematics, ArXiV link: https://arxiv.org/abs/1711.00412

4: *Torsion of rational elliptic curves over quartic Galois number fields*, Journal of Number Theory, Volume 160, March 2016, pp 603-628.

Talks

Conference Talks..

o "Torsion of elliptic curves in $\mathbb{Z}_p$ extensions of $\mathbb{Q}$", 2018 Maine-Québec Number Theory Conference, Université Laval, Quebec City   *October 2018*

o "Torsion of rational elliptic curves over the maximal abelian extension of $\mathbb{Q}$", CNTA XV, Université Laval, Quebec City   *July 2018*

o "Torsion of CM elliptic curves defined over the maximal abelian extension of $\mathbb{Q}$", Torsion groups and Galois representations of elliptic curves, University of Zagreb, Croatia.   *June 2018*

- "Elliptic curves and Galois representations", 32nd Automorphic Forms Workshop, Tufts University, Medford. *March 2018*
- "Growth of torsion of elliptic curves from $\mathbb{Q}$ to the maximal abelian extension", 2017 Maine-Québec Number Theory Conference, University of Maine, Orono. *October 2017*
- "Torsion of rational elliptic curves over the maximal abelian extension of $\mathbb{Q}$", Connecticut Summer School in Number Theory Conference on Elliptic Curves and Modular Forms, University of Connecticut, Storrs. *August 2016*
- "Torsion of rational elliptic curves over the maximal abelian extension of $\mathbb{Q}$", Upstate New York Number Theory Conference, University of Rochester. *April 2016*
- "Torsion of rational elliptic curves over quartic Galois number fields", AMS Sectional Meeting, Special Session on Elliptic Curves, University of Georgia, Athens. *March 2016*
- "Torsion of rational elliptic curves over quartic Galois number fields", 2015 Maine-Québec Number Theory Conference, University of Maine, Orono. *October 2015*
- "Torsion of rational elliptic curves over quartic Galois number fields", 2015 Boston University/Keio University Number Theory Workshop, Boston University. *September 2015*

Seminar Talks...

- "From Euclid to Wiles", Salve Regina University. *February 2018*
- "Introduction to elliptic curves", Colloquium, University of Hartford. *November 2018*
- "Growth of torsion of elliptic curves from $\mathbb{Q}$ to the maximal abelian extension", AGeNTS Seminar, Tufts University. *September 2017*
- "Growth of torsion of elliptic curves from $\mathbb{Q}$ to the maximal abelian extension", Algebra Seminar, Wesleyan University. *November 2016*
- "Growth of torsion of elliptic curves from $\mathbb{Q}$ to the maximal abelian extension", Number Theory Seminar, Amherst College. *October 2016*
- "Growth of torsion of elliptic curves from $\mathbb{Q}$ to the maximal abelian extension", Number Theory Seminar, Boston University. *October 2016*
- "Growth of torsion of elliptic curves from $\mathbb{Q}$ to the maximal abelian extension", Algebra Seminar, University of Connecticut, Storrs. *September 2016*
- "Torsion of rational elliptic curves over quartic Galois number fields", Algebra Seminar at Wesleyan University. *November 2015*
- "Torsion of rational elliptic curves over quartic Galois number fields", Algebra Seminar at University of Connecticut, Storrs. *October 2015*
- "Torsion subgroups of elliptic curves over number fields", SIGMA Seminar, University of Connecticut, Storrs. *September 2014*
- "Irrationality", Math Club, University of Connecticut, Storrs. *September 2014*

Conferences and Workshops Attended

- Joint Math Meetings, Denver, CO *January 2020*
- NE-IBLM, Willimantic, CT *October 2019*
- Joint Math Meetings, Baltimore, MD *January 2019*
- Maine-Québec Number Theory Conference, Université Laval, Quebec City *October 2018*
- Canadian Number Theory Association Conference, Université Laval, Quebec City *July 2018*

o Torsion groups and Galois representations of elliptic curves, University of Zagreb, Croatia

<div align="right">June 2018</div>

o CT Summer School in Number Theory, University of Connecticut, Storrs, CT   *May 2018*

o Upstate Number Theory Conference, University at Buffalo, Buffalo, NY   *April 2018*

o 32nd Automorphic Forms Workshop, Tufts University, Medford, MA   *March 2018*

o Joint Math Meetings, San Diego, CA   *January 2018*

o Maine-Québec Number Theory Conference, University of Maine, Orono, ME   *October 2017*

o Joint Math Meetings, Atlanta, GA   *January 2017*

o CT Summer School in Number Theory, University of Connecticut, Storrs, CT   *August 2016*

o Rubin Fest, Harvard University, Cambridge, MA   *June 2016*

o Upstate Number Theory Conference, University of Rochester, Rochester, NY   *April 2016*

o AMS Special Session on Elliptic Curves, University of Georgia, Athens, GA   *March 2016*

o Arizona Winter School: Arithmetic Geometry, University of Arizona, Tucson, AZ   *March 2016*

o Joint Math Meetings, Seattle, WA   *January 2016*

o Maine-Québec Number Theory Conference, University of Maine, Orono, ME   *October 2015*

o BU/Keio University Workshop 2015, Boston University, Boston, MA   *September 2015*

o Arithmetic 2015 Silvermania, Brown University, Providence, RI   *August 2015*

o Upstate Number Theory Conference, Cornell University, Ithaca, NY   *April 2015*

o Arizona Winter School: Arithmetic Dynamics, University of Arizona, Tucson, AZ   *March 2014*

o Joint Math Meetings, Baltimore, MD   *January 2014*

o Maine-Québec Number Theory Conference, University of Maine, Orono, ME   *October 2013*

o Joint Math Meetings, Boston, MA   *January 2012*

Grants

o NSF DMS-1802058, Workshop on Automorphic Forms and Related Topics. $21,000. (March 2018) (Co-PI's: Michael Chou, Amanda Folsom, Steven J. Miller)

Honors and Awards

Tufts University: Teaching with Technology Honorable Mention   *2019*

University of Conn.: Michael Neumann Dissertation Award   *2017*

University of Conn.: PreDoctoral Fellowship   *2016*

University of Conn.: Louis J. DeLuca Memorial Outstanding Teaching Assistant Award   *2016*

Teaching Experience

Salve Regina University   **Newport, RI**
Assistant Professor   *2019 – present*

: Math in Social Sciences   *Fall '19, Spring '20*

: Statistical Methods   *Fall '19*

Tufts University   **Medford, MA**
Norbert Wiener Assistant Professor   *2017 – 2019*

: Mathematical Cryptography   *Fall '18*
: Calculus I   *Spring '18, Fall '18*
: Number Theory   *Fall '17*
: Linear Algebra   *Spring '18*

University of Connecticut   **Storrs, CT**
Instructor & Teaching Assistant   *2012 – 2017*

Instructor:		**Teaching Assistant**:	
: Problem Solving,	*Fall '13, Fall '16*	Calculus I,	*Fall '12, Spring '15*
: Precalculus,	*Spring '14*	Calculus II,	*Spring '13*
: Elementary Discrete Mathematics,	*Summer '14*		
: Applied Linear Algebra,	*Fall '14, Spring '16*		
: Calculus for Business and Economics,	*Fall '15*		
: Multivariable Calculus,	*Summer '16*		

Directed Reading Program Mentor   *Fall '15, Fall '16, Spring '17*
Supervised an undegraduate student in advanced math readings culminating in a presentation to their peers

o Vyas Krishnamurthy – "Matrix Groups" by M.L. Curtis
o Jake Murphy – "Elliptic Curves, Modular Forms and Their L-functions" by Á. Lozano-Robledo

University of Arizona   **Tucson, Arizona**
Instructor, Trigonometry   *2011–2012*

Wesleyan University   **Middletown, CT**
Teaching Assistant & Tutor   *2008–2011*
Abstract Algebra, Coding Theory, Calculus, Linear Algebra
Math Workshop Tutor

Service

Connections Day, Salve Regina Univ. – Recorded video, one-on-one meetings   *April 2020*
PhD in Humanities Committee Member, Salve Regina Univ.   *March 2020 – present*
Search Committee, Math. Sciences Dept., Salve Regina Univ.   *September 2019 – January 2020*
Co-organizer of AMS Special Session on *Arithmetic Statistics*, Joint Math Meetings, Baltimore, MD
    January 2019
Co-organizer of 32nd Automorphic Forms Workshop, Tufts University, Medford   *March 2018*
Outreach Committee   *2017-2018*
Tufts Community Day Volunteer   *September 2017*
CTNT Summer School Graduate Student Assistant   *August 2016*
ASL Annual North American Meeting Graduate Student Assistant   *May 2016*
Graduate Student Peer Mentor   *August 2015 – May 2017*
Panelist   *2015-2017*
o Early Career Academics Panel, Tufts University, Medford

- New Teaching Assistant Orientation, University of Connecticut, Storrs
- Choosing an Advisor Panel – SIGMA Seminar, University of Connecticut, Storrs
- Prelim Preparation Panel – SIGMA Seminar, University of Connecticut, Storrs