Ahmed Matar

Curriculum Vita

CONTACT INFORMATION

Department of Mathematics
University of Bahrain
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RESEARCH INTERESTS

Number theory and arithmetic geometry. More specifically, my interests lie in Iwasawa theory and the arithmetic of elliptic curves.

EDUCATION

Arizona State University, Tempe, Arizona USA

- Ph.D., Mathematics, May 2010

  Thesis: *Selmer Groups and the Fontaine-Mazur Conjecture*
  Advisor: Nancy Childress

University of Bahrain, Isa Town, Kingdom of Bahrain

- B.S., Physics, August 1998

EMPLOYMENT

Assistant Professor, University of Bahrain, Fall 2011 - Present

- Courses Taught: Calculus with Analytic Geometry I,II,III, Business Calculus, Linear Algebra, Elementary Number Theory, Abstract Algebra

Instructor, Arizona State University, Fall 2010 - Spring 2011

- Courses Taught: Calculus I and College Mathematics

Graduate Teaching Associate, Arizona State University, Fall 2004 - Spring 2008

- Courses Taught: College Algebra, College Mathematics, Precalculus, Business Calculus, Calculus with Analytic Geometry I,II,III.

GRANTS AND AWARDS

Fellow of the Higher Educational Academy, Feb 2015

Erasmus Mundus Scholarship - Lille1 University, Sept 2012-Feb 2013

Graduate Student Research Award, Arizona State University, 2010

Publications

Kolyvagin's work and anticyclotomic tower fields: the supersingular case, In preperation

Fine Selmer Groups, Heegner Points and Anticyclotomic Zp-extensions II, In preparation

On the Lambda-cotorsion subgroup of the Selmer group, submitted

Kolyvagin's result on the vanishing of the Tate-Shafarevich group and its consequences for anticyclotomic Iwasawa theory (with Jan Nekovar), submitted

Fine Selmer Groups, Heegner points and Anticyclotomic $\mathbb{Z}_p$-extensions, International Journal of Number Theory, Vol 14, No. 5 (2018), pp. 1279-1304

Selmer Groups and Anticyclotomic $\mathbb{Z}_p$-extensions, Mathematical Proceedings of the Cambridge Philosophical Society, Vol 161, No. 3 (2016), pp. 409-433

Selmer Groups and Generalized Class Field Towers, International Journal of Number Theory, Vol 8, No. 4 (2012), pp. 881-909

Mentoring and Service

Member of Fayadh Kadhem's senior project committee, Spring 2016

Supervised Jasim Isameel's senior project "An introduction to p-adic analysis", Fall 2015

Served on many department committees at the university of Bahrain. Most notably, head of website and e-learning committee Fall 2014-Fall 2017 and head of senior project committee Spring 2016-present

Talks

Selmer Groups and Generalized Class Field Towers
Oct. 2012, Number Theory Seminar, Lille1 University

Selmer Groups and the Fontaine-Mazur Conjecture
Feb. 2010, Algebra and Number Theory Seminar, University of Arizona

Selmer Groups and Class Field Towers
Nov. 2009, Number Theory Seminar, Arizona State University

Euler Characteristics and Elliptic Curves
Feb. 2009, Number Theory Seminar, Arizona State University

Selmer groups and Mazur's Control Theorem
Sept. 2008, Number Theory Seminar, Arizona State University

Central Simple Algebras and Galois Cohomology
Sept. 2006, Number Theory Seminar, Arizona State University

Conferences and workshops attended	Iwasawa 2012 Conference, Heidelberg, Germany July 30-August 3, 2012
	2011 Joint Mathematics Meeting, New Orleans, LA January 6-9, 2011
	2010 Joint Mathematics Meeting, San Francisco, CA January 13-16, 2010
	2010 Southern California Number Theory Day, Caltech May 15, 2010
Workshop organization	LaTeXworkshop Spring 2012, workshop for university faculty members on using LaTeX
	MathXL workshops 2013-2017, conducted workshops for faculty members on using the online homework system MathXL
Professional certificates	Postgraduate Certificate in Academic Practice, University of Bahrain 2014
Languages	English (Fluent), Arabic (Native)
Citizenship	Kingdom of Bahrain