

Ran Cui

CONTACT INFORMATION	Department of Mathematics, University of Maryland, 4176 Campus Drive, College Park, MD 20742 USA	(301)919-7542 cuiran@math.umd.edu http://www.math.umd.edu/~cuiran
CITIZENSHIP	P.R.China	
RESEARCH INTERESTS	Representation Theory, specifically the Real-Quaternionic indicator of self-conjugate representations of real Lie groups, the Frobenius-Schur indicator of representations of real Lie groups and of p-adic groups, p-adic Langlands program, atlas of Lie groups project.	
EDUCATION	University of Maryland Ph.D., Mathematics (expected May 2016) Thesis: The Real-Quaternionic Indicator Advisor: Jeffrey Adams M.A., Mathematics, May 2012 Nankai University B.S., Mathematics May 2009	
PAPERS AND PUBLICATIONS	R. Cui, <i>The Real-Quaternionic Indicator for Finite Dimensional Self-Conjugate Representations of Semi-Simple Lie Groups</i> (pdf on website) R. Cui, <i>Explicit Construction of the Local Langlands Correspondence of GL_2</i> (pdf on website)	
SELECTED TALKS	<i>The Real-Quaternionic Indicator</i> , (Oct. 2015). Lie Groups and Representation Theory Seminar. <i>The Frobenius-Schur Indicator</i> , (Feb. 2015). Student Algebra and Number Theory Seminar. <i>Strong Real Forms and Kac Classification</i> , (Nov. 2014). Student Algebra and Number Theory Seminar. <i>Hermitian forms on (\mathfrak{g}, K) modules</i> , (May 2014). Representation Theory Reading Group. <i>Explicit Construction of the Local Langlands Correspondence of GL_2</i> , (Nov. 2013) Lie Groups and Representation Theory Seminar.	
TEACHING EXPERIENCE		

Women in Math Mentor/Mentee Program	mentor	Sp 2013
Introduction to Statistics (Stat 100)	TA	Fa 2015
Calculus I (Math 140)	TA	Fa 2014
Calculus I - Freshmen Connection (Math 140)	Lecturer	Fa 2014 Fa 2013
Calculus II (Math 141)	TA	Sp 2013, Sp 2011
Differential Equations (Math 246)	TA	Sp 2012, Fa 2011
Applied Probability and Statistics (Stat 400)	Lecturer	Fa 2010
Calculus III (Math 241)	TA	Sp 2010
Elementary Mathematical Models (Math 100)	Lecturer	Fa 2009

RECENT AWARDS 2015 Ralph Pass III Fellowship Award

SERVICES Sp 2015 - present Vice president of Women in Math,
University of Maryland
2013 - present Committee member of
International Graduate Student in Math, UMD

CONFERENCES &
WORKSHOPS OCT. 2009 Representation Theory and Mathematical Physics Conference
in honor of Gregg Zuckerman's 60th at Yale University
JUNE 2012 FRG 2012 Workshop & Conference at American University
OCT. 2012 JHU-UMD Algebra Number Theory Day at UMD
MAY 2013 Representation Theory, Automorphic Forms,
and Complex Geometry
A conference in honor of the 70th birthday of Wilfried Schmid
at Harvard University
MAY 2013 JHU-UMD Algebra Number Theory Day at JHU
JULY 2013 Workshop & Conference on
Unitary Representations of Real Reductive Groups at
University of Utah
NOV. 2013 JHU-UMD Algebra Number Theory Day at UMD
APR. 2014 JHU-UMD Algebra Number Theory Day at JHU
MAY 2014 Representations of reductive groups
A conference dedicated to David Vogan on his 60th birthday
at MIT
NOV. 2014 JHU-UMD Algebra Number Theory Day at UMD
MAR. 2015 JHU-UMD Algebra Number Theory Day at JHU
JUNE 2015 Representation Theory, Number Theory
and Invariant Theory Conference
in honor of Roger Howe's 70th birthday at MIT
NOV. 2015 AMS Special Session meeting at Rutgers University