Curriculum Vitae

Juhyung Lee

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RESEARCH INTERESTS:

- Representation theory of reductive Lie groups
- Harmonic analysis
- Prehomogeneous vector spaces
- Heisenberg Varieties

EDUCATION:

- Senior Lecturer (current), University of Rhode Island (URI), starting from Fall 2018
- Lecturer, University of Rhode Island (URI), 2014~2018
- Research Associate, Oklahoma State University (OSU), 2013~2014
- Research Assistant and lecturer, Oklahoma State University (OSU), 2012~2013
- Ph.D. in Mathematics, OSU, July 2012
  Dissertation Title: A functional equation for a prehomogeneous vector space and unitary representations of GL(2n, **R**). Thesis Advisor: Zierau, Roger
- Enrolled in the Integrated MS and Ph.D. program in Mathematics, Seoul National University (SNU), 2000~2004
- BA in Mathematics, In-Ha University, 1999

PUBLICATION:

- Juhyung Lee, *A functional equation and degenerate principal series*, Rocky Mountain Journal of Mathematics, Volume 46, No. 6, 2016

PREPRINT:

- The complementary series of representation of SL(2, **R**), OSU(2008)
- Generalized K-Bessel functions, OSU (2010)

MEETINGS:

- International Conference on Integral Geometry, Harmonic Analysis and Representation Theory, Iceland, August 2007
- OK-AR Mathematical Association of America (MAA), Arkansas, March 2010
- 2011 Joint Mathematics Meetings (AMS), New Orleans, January 2011
- 2012 Joint Mathematics Meetings (AMS), Boston, January 2012
- 2013 Tora V, Oklahoma State University, 2013
- 2014 Joint Mathematics Meetings (AMS), Baltimore, January 2014
- 2016 SIAM Annual Meeting, Boston, July 2016

LECTURES:

- Title: A functional equation for a prehomogeneous vector space and unitary representations of GL(2n, **R**), MAA, Arkansas, 2010
- Title: A realization of an irreducible unitary representation, AMS (Special Session on Analytic and Geometric Methods in Representation Theory), New Orleans, 2011
- Title: A functional equation for a prehomogeneous vector space and unitary representations of GL(2n, **R**), AMS (MAA General Contributed Paper Session: Research in Geometry and Linear Algebra), Boston, 2012
- Title: A functional equation and degenerate principal series, Tora V, Oklahoma State University, 2013

ACADEMIC AWARDS:

- 2010 Jeanne Agnew Award (a teaching award, Department of Mathematics at OSU)
- 2007-2008 Educator of the year (College of Engineering, Architecture & Technology Multicultural Engineering Program at OSU)
- 2008 Jeanne Agnew Award (a teaching award, Department of Mathematics at OSU)
- 2007 E.K. McLachlan Award (Department of Mathematics)
- 2006 Schiller J. Scroggs Distinguished Fellowship (Department of Mathematics at OSU)
- 2005 O.H. Hamilton Award (Department of Mathematics at OSU)
- 2003 Excellent TA Award (Department of Mathematics at SNU)
- 2000-2004 Brain Korea 21 Fellowship (Department of Mathematics at SNU)
- 1999 Special Prize of the 18th Korean Mathematical Olympiad (Korean Mathematical Society)
- 1998 Encouragement Prize of the 17th Korean Mathematical Olympiad (Korean Mathematical Society)
- 1997 Encouragement Prize of the 16th Korean Mathematical Olympiad (Korean Mathematical Society)

COURSES TAUGHT:

- At Seoul National University: Calculus (I, II, III), Linear Algebra, Differential Equations

- At Oklahoma State University: College Algebra, Trigonometry, Precalculus, Elementary Calculus, Calculus (I, II, III), Linear Algebra, Differential Equations

- At University of Rhode Island: Intermediate Algebra, Finite Mathematics, Precalculus, Calculus (I, II), Multivariable Calculus, Linear Algebra, Differential Equations, Advanced Engineering Mathematics, Advanced Calculus and Applications (I, II), Probability and Statistics, Mathematical Statistics

ADMINISTRATIVE CONTRIBUTIONS AT URI:

- Undergraduate Program Committee, starting from Fall 2014
- Open-Source Calculus Book Search Team for MTH 141/142, Spring 2018
- Committee of Assessment Plan for the Mathematics BA/BS program, starting from Fall 2020

CURRICULUM DEVELOPMENTS OR REVISIONS AT URI:

- Implemented MTH 107 Finite Mathematics to a general education course, Spring 2016
- Participated in Phase 1 Assessment and submitted rubric assessment of MTH 107, Spring 2018
- Created a new course: MTH 490 Intermediate Topics in Mathematics, Spring 2020
- Submitted a proposal for online MTH 451 Probability and Statistics, Fall 2020

PROFESSIONAL DEVELOPMENT TRAINING:

- Mixed Online Bootcamp, Summer 2020