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 Mathematics Department
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Education and Employment

2009 Ph.D. University of Utah, Salt Lake City, Mathematics

2005 M.S. University of Utah, Salt Lake City, Mathematics

2000 – 2003 Software Engineer, Evans and Sutherland Computer Corporation

2000 B.S. University of Illinois, Champaign-Urbana, Computer Science

Academic Awards and Honors

2009 – Spring VIGRE Graduate Fellowship

2008 – Spring VIGRE Graduate Fellowship

2007 T. Benny and Gail T. Rushing Graduate Fellowship — Annual department award based on excellence in teaching and research

2006 – Fall VIGRE Graduate Fellowship

2003 – 2004 VIGRE Graduate Fellowship

2000 University of Illinois Bronze Tablet

Research interests

Representation Theory of Real Reductive Lie Groups

Manuscripts

2009 1. *Duality for the Universal Cover of Even Rank Spin Groups* (in preparation)

2009 2. *Duality for the Universal Cover of Split F_4* (in preparation)

2008 3. *Duality for $\widetilde{Spin}(n+1, n)$* : Doctoral Thesis

Lectures and Presentations

Invited (not including seminars)

2008 Oct. Kalamazoo, MI (AMS Meeting): Genuine Representations of $\widetilde{Spin}(n+1, n)$

Invited (workshops)

2008 July Palo Alto, CA (Atlas of Lie Groups and Representations): Duality for $\widetilde{Spin}(n+1, n)$

2007 July Palo Alto, CA (Atlas of Lie Groups and Representations): Parameterizing Genuine Representations of Nonlinear Double Covers

2006 July Palo Alto, CA (Atlas of Lie Groups and Representations): Closure Relations of $K_{\mathbb{C}}$ -orbits on $G_{\mathbb{C}}/B_{\mathbb{C}}$

Seminars

2008 Sept. U. Utah Representation Theory: Duality for $\widetilde{Spin}(n+1, n)$

— Feb. U. Utah Representation Theory: Highest Weight Modules

2006 Sept. U. Utah (Graduate Student Colloquium): Irreducible Representations of $\mathfrak{sl}_2(\mathbb{C})$

Departmental Service and Synergistic Activities

- 2008 Spring Organizer, with Benjamin Trahan: GRE Preparation Course — Weekly meetings to prepare advanced undergraduates for the GRE subject test in mathematics
- 2006 Fall Organizer, with Matthew Housley: GRE Preparation Course
- 2006 – 2007 Member, with Yael Algom-Kfir and Sarah Kitchen: Graduate Student Colloquium Committee — Organize and participate in colloquium talks for graduate students
- 2004 – 2005 Assistant to Peter Trapa: Math Circle — A weekly after school program for high school students interested in mathematics
- 2003 – 2004 Organizer, with Michael Woodbury: GRE Preparation Course

Teaching Awards

- 2007 T. Benny and Gail T. Rushing Award
- 2006 Spring Departmental Recognition — Based on outstanding student evaluations

Teaching Activities

- 2008 Fall Linear Algebra (Math 2280 - course for math majors)
- 2008 Spring GRE Preparation Course
- 2006 Fall GRE Preparation Course
- 2006 Spring Introduction to Quantitative Reasoning (Math 1030)
- 2005 Fall Business Calculus (Math 1100)
- 2005 Spring Math Circle Assistant
- 2004 Fall Math Circle Assistant
- 2004 Spring GRE Preparation Course
- 2003 Fall GRE Preparation Course

Graduate Committee

Dan Ciubotaru
Henryk Hecht
Dragan Milicic
Gordan Savin
Peter Trapa (Chair)

References (Research)

Jeffrey Adams: jda@math.umd.edu
Dragan Milicic: milicic@math.utah.edu
Peter Trapa: ptrapa@math.utah.edu
David Vogan: dav@math.mit.edu

References (Teaching)

Nathan Smale: smale@math.utah.edu
Peter Trapa: ptrapa@math.utah.edu