

## RAMASUBRAMANIAN BHARATH NARAYANAN

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### Education

1. **Ph.D** in Mathematics, Kansas State University May 2002;
2. **Masters of Science**, Mathematics, Kansas State University May 2002;
3. **Masters of Science**, Mathematics; Bangalore University, India;
4. **Masters Diploma** in Unix and C, July 1993; Cariappa Institute of Management and Computer Sciences, Bangalore, India;
5. **Bachelor of Science** in Computer Science, Physics, Math, July 1991; St. Joseph's College, Bangalore, India.

### Work Experience

1. **Standing Lecturer**, Pennsylvania State University, 2006–Present;
2. **Lecturer**, Pennsylvania State University, 2004–2006;
3. **Teaching Post-Doctoral Faculty**, University of Arizona, 2001–2004;
4. **Master Graduate Teaching Assistant**, Kansas State University, 2000–2001;
5. **Graduate Teaching Assistant**, Kansas State University, 1993–2000;
6. **Math Instructor**, Upward Bound Program for High School students in Math/Science, Kansas State University, 1996;

### Awards

1. Stromberg Outstanding Graduate Teaching Assistant in Teaching Award, *Kansas State University, 2000*;
2. Undergraduate Award for Excellence in Mathematics, *St. Joseph's College, 1992*.

### Publications

1. Representations of Affine Quantum Function Algebras  
*Journal of Algebra Volume 272, Issue 2, 15 February 2004, Pages 775-800*;
2. Representations of Quantized Function Algebras of Kac-Moody Lie Algebras.  
*PhD thesis, Kansas State, May 2002*;
3. Representations of Simple Dynamical Quantum Groups  
*Unpublished (2005)*;
4. Regularity of Quaternion Functions, Formal Powers and Regular Powers in Polar Form And Regular Power Series Representations  
*with B.S.Suresh, Unpublished (2005)*.

## Special Skills and Activities

1. Member of AMS, MAA;
2. Coordinator of Undergraduate Teaching Assistants  
*VIGRE-NSF Program, Fall 2002;*
3. Supervisor For Undergraduate Research  
*VIGRE-NSF Program, 2003-04 on Variable Speed of Light Theory;*
4. Entry-level Representative for the Undergraduate Committee,  
*University of Arizona, 2002;*
5. Sponsored Participation in the **Unity of Mathematics** conference held in honor of the 90th Birthday of I.M.Gelfand,  
*Harvard University, Aug 31 to Sept 4, 2003;*
6. Participator in the Annual MGE/MSA Arizona Faculty Doctoral Mentoring Institute,  
*Arizona State University, Tempe, 1st April 2003;*
7. Organizer of the Seminar on Representation Theory and Automorphic Forms with Applications,  
*University of Arizona 2003-04;*
8. Secretary for the International Coordinating Council,  
*Kansas State University, 1995-96.*

## Recent Invited Talks

1. Dynamical Quantum Groups and Self-Duality.  
*Special Session, Joint AMS-MAA meetings, January 2004 Phoenix;*
2. Dynamical Quantum Groups.  
*Algebra Seminar, Kansas-State University November 3, 2003;*
3. Business Mathematics and Applications  
*Undergraduate Seminar, Kansas-State University November 3, 2003;*
4. Representation Theory of Quantum Function Algebras of Kac-Moody Lie algebras.  
*Special Session, Joint AMS-MAA meetings, January 2001, New Orleans;*
5. An Expository Introduction to Representation Theory.  
*Seminar on Automorphic Forms, Representation Theory and Applications, University of Arizona, September 10 and 17, 2003;*
6. Quantum Kac-Moody Algebras and their Representations, I and II.  
*Geometry Seminar, University of Arizona, April 24 and 30, 2002;*
7. Non-Commutative Algebra: What happens if  $ab$  does not equal  $ba$ ?  
*Mathematics Instruction Colloquium, University of Arizona, January 22, 2002;*

## Professional References

1. **Professor Pavel Etingof**, *etingof@math.mit.edu*
2. **Professor Deborah Hughes-Hallett** *dhh@math.arizona.edu*
3. **Professor Andrew Bennett** *bennett@math.ksu.edu*
4. **Professor Yan Soibelman** *soibel@math.ksu.edu*
5. **Dr. Marc Fabbri** *fabbri@math.psu.edu*