

CURRICULUM VITAE

Personal Information:

Name : SHAMINDRA KUMAR GHOSH

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Education:

Ph.D in Mathematics, University of New Hampshire, 2006
Advisor : Professor Dmitri Nikshych

Ph.D. in Mathematics, Indian Statistical Institute, 2005
Advisor : Professor Viakalathur Sunder

Master of Statistics (Mathematics Specialization) (First Class),
Indian Statistical Institute, Bangalore, 1998

B.S. in Mathematics (Honours) (First Class),
St. Xavier's College, Calcutta, 1996

Employment:

Assistant Professor (Non Tenure-Track), Vanderbilt University, Academic Year
'06-'09

Awards and honors:

Submitted grant: *Subfactors, planar algebras and their representations*, Analysis Program, DMS, NSF, 2009

NSF US Junior Oberwolfach Fellow travel award

Summer Research Funding 2008, NSF DMS-0301173, PI: Prof. Dietmar Bisch

Summer Research Fellowship, Graduate School, University of New Hampshire, 2006

Summer Research Fellowship, Graduate School, University of New Hampshire, 2005

Teaching Assistantship, Department of Mathematics, University of New Hampshire, 2003 - 2006

Junior Research Fellowship in Mathematical Sciences under the University Grants Commission Fellowship Scheme, 1999, India

National Board of Higher Mathematics Research Award in Pure and Applied Mathematics for the year 1998, India

Research Fellowship, Institute of Mathematical Sciences, Chennai, India, 1998 - 2004

Research Interests:

My research interests are Operator Algebras, Subfactor Theory, Planar Algebras, Category Theory and Quantum Groups.

Publications:

Affine representations of planar algebra at weight zero, In preparation

Planar algebra of the group-type subfactors with cocycle-obstruction, In preparation

Planar algebras: a category theoretic point of view, Submitted, preprint arXiv:0810.4186v2

Planar algebra of group-type subfactors, With Dietmar Bisch and Paramita Das, to appear in Jour. Func. Anal., arXiv:0807.4134

Planar algebra of the diagonal subfactors, With Dietmar Bisch and Paramita Das, Submitted, preprint arXiv:0811.1084

Representations of group planar algebras, Jour. Func. Anal. 231 (2006) 47-89

Higher Exchange Relations, Pac. Jour. Math. 210 (2003) 299-316

Professional Services:

Co-organizer, Shanks Workshop on ‘Subfactors and Planar Algebras’, Vanderbilt University, April 2008

Co-organizer, Subfactor Seminar, Vanderbilt University, AY08-'09

Co-organizer, RTG Seminar, Vanderbilt University, AY06-'07

Teaching experience:

The following is the list of courses that I taught as an Assistant Professor at Vanderbilt University.

Fall 2008	:	First Year Calculus I (Math 150A)
Summer 2008	:	First Year Calculus II (Math 150B)
Spring 2008	:	Second Year Accelerated Calculus (Math 175) First Year Calculus I (Math 150A)
Fall 2007	:	First Year Accelerated Calculus II (Math 155B) First Year Calculus II (Math 150B)
Spring 2007	:	Second Year Calculus II (Math 170B) First Year Calculus II (Math 150B)
Fall 2006	:	First Year Calculus I (Math 150A)

The following is the list of courses that I taught in the capacity of a Teaching Assistant between Fall 2003 and Summer 2005 and as the lead instructor in the Fall 2005 and Spring 2006 semesters at the University of New Hampshire.

- Summer 2006 : Algebra, Analysis and Geometry for
Master of Science for Teachers
- Spring 2006 : Precalculus
- Fall 2005 : Precalculus
- Summer 2005 : Algebra, Analysis and Geometry for
Master of Science for Teachers
- Spring 2005 : Finite Mathematics
- Fall 2004 : Finite Mathematics
- Spring 2004 : Calculus I (Differential Calculus)
- Fall 2003 : Calculus II (Integral Calculus)

Invited Lectures, Colloquium and Seminar Talks:

Planar algebra of group-type subfactors, (Invited Speaker at AMS Joint Mathematics Meeting, Washington, D.C., 2009)

Subfactor and planar algebra, (Invited Speaker at the Analysis Seminar, University of Tennessee at Knoxville, 2008)

From planar algebras to subfactors, (Speaker at the Subfactor Seminar, Vanderbilt University, Nashville, 2008)

Planar algebra of group-type subfactors, (Speaker at the Workshop on von Neumann algebras and Ergodic Theory of Group Actions, Oberwolfach, Germany, 2008)

Planar algebra of group-type subfactors, (Invited Speaker at the Sixth East Coast Operator Algebras Symposium, Penn State University, 2008)

Planar algebra of group-type subfactors, (Speaker at the Wabash Modern Analysis Seminar, IUPUI, Indianapolis, 2008)

Planar algebra of Bisch-Haagerup subfactors, (Speaker at the Great Plains Operator Theory Symposium, University of Cincinnati, 2008)

Planar algebra of group-type subfactors, (Speaker at the Shanks Workshop on Subfactors and Planar Algebras Vanderbilt University, Nashville, 2008)

The planar algebra of the group-type subfactors of Bisch and Haagerup (Invited speaker at the Workshop on von Neumann algebras, Fields Institute, Toronto, 2007)

Planar algebra: a category-theoretic point of view (Speaker at the Workshop on

von Neumann Algebras, Banff International Research Station, Canada, 2006)

Planar Algebras and their Annular Representation (Special Seminar at University of New Hampshire, Durham, 2005)

Fusion Categories of Small Dimensions (Seminar talk at University of New Hampshire, Durham, 2005)

Representations of a Planar Algebra (Invited speaker at The Third Annual Spring Institute on Noncommutative Geometry and Operator Algebras, Vanderbilt University, Nashville, 2005)

Representations of a Planar Algebra (Invited speaker at Noncommutative Geometry and Operator Algebras Seminar, Vanderbilt University, Nashville, 2005)

Representations of Group Planar Algebras (Speaker at Braid Groups and Applications, Banff International Research Station, Canada, 2004)

Representations of Group Planar Algebras (Invited speaker at The Second East Coast Operator Algebra Symposium, United States Naval Academy, Annapolis, 2004)