

Curriculum Vitae

Remus I. Nicoara

<http://www.math.utk.edu/~nicoara/>

Professional Preparation

University of Bucharest, Romania	Mathematics	Bachelor Degree, June 1999
University of California, Los Angeles	Mathematics	Ph.D., June 2004
Vanderbilt University, Nashville	Mathematics	Postdoc, August 2004 - June 2007

Graduate Advisor: Sorin Popa, University of California Los Angeles

Postdoctoral Advisor: Dietmar Bisch, Vanderbilt University

Appointments

2007 – present	Assistant Professor (tenure track), University of Tennessee Knoxville
2004 – 2007	Assistant Professor (postdoctoral), Vanderbilt University
1999 – 2004	Research and Teaching Assistant , University of California Los Angeles
1998 – 1999	Research Assistant , Institute of Mathematics of the Romanian Academy

Awards/Honors

Professional Development Award of the University of Tennessee, Knoxville (2011)

Visiting position at the Henri Poincare Institute, Paris (Spring 2011)

Visiting position at the Institute of Mathematics of the Romanian Academy (Summers 2008 - 2010)

“Network in Non-commutative Geometry” award, conferred by ANCS at the Institute of Mathematics of the Romanian Academy (2008 - 2010)

Professional Development Award of the University of Tennessee, Knoxville (2009)

NSF award "Subfactors and noncommutative ergodic theory" (2005-2008)

UCLA Graduate Division Edwin Pauley fellowship (1998-2003)

Traian Lalescu National Award of the University of Bucharest, 1997

National Romanian Bursary for Exceptional Students in Mathematics 1996-1998

Jubilee Diploma and Honor Diploma for exceptional results in mathematics competitions, conferred by the Romanian Mathematics Society, 1995

Silver Medal at the Balkan Mathematical Competition, Novisad, Yugoslavia, 1994

First Prize at the National Mathematical Olympiad of Romania, 1993 and 1995
Second Prize at the National Mathematical Olympiad of Romania, 1991 and 1992

First Prize at the Laureates Gala for participants in Romanian mathematical competitions, 1995

Publications

(PDF's available online at <http://www.math.utk.edu/~nicoara/>)

A primeness condition for commuting squares of matrix algebras, **Journal of Operator Theory**, Vol. 55 (2006), p. 295-310

On the finiteness of the number of N -dimensional Hopf C^ -algebras*, **Proceedings of the 20th Conference on Operator Theory**, Theta 2006, p. 157-170

Quantum groups and Hadamard matrices (jointly with T. Banica), **Pan-American Mathematical Journal**, Volume 17 (2007), Number 1, 1-24

On II_1 factors arising from 2-cocycles of w -rigid groups (jointly with S. Popa and R. Sasyk), **Journal of Functional Analysis**, 242 (2007), 230-246

Continuous families of hyperfinite subfactors with the same standard invariant (jointly with D. Bisch and S. Popa), **International Journal of Mathematics**, 18 (3) 2007

Maximal Abelian $$ -algebras of the 6×6 matrices* (jointly with K. Beauchamp), **Journal of Linear Algebra and Applications**, 428 (2008), 1833-1853

Subfactors and Hadamard matrices, **Journal of Operator Theory**, Volume 64, Issue 2, Fall 2010 pp. 453-468

Limit points of commuting squares, **Indiana University Mathematics Journal** (2010) - accepted, to appear, final version available at <http://www.iuj.indiana.edu/IUMJ/Preprints/4294.pdf>

A finiteness result for commuting squares with large relative commutant, **Transactions of the AMS** (2011) - accepted, to appear

Associative deformations of matrix multiplication and subfactors, preprint

Selected Talks

Isolation results for Subfactors and Commuting Squares, **The Fourth European Union Non-Commutative Geometry Annual Meeting**, Bucharest 2011

Finiteness Results for Commuting Squares, **Shanks Workshop on Subfactors and Fusion Categories**, Vanderbilt University, Nashville 2010

Subfactors and Quantum Symmetries, **Mathematics Colloquium**, University of Tennessee, Knoxville, 2009

Large Relative Commutant Commuting Squares, **The Subfactor Seminar**, Vanderbilt University, 2009

Isolation Results for Commuting Squares, **The Monthly Colloquium of the Institute of Mathematics of the Romanian Academy**, Bucharest 2009

Continuous Families of Commuting Squares, **The 22nd International Conference on Operator Theory**, University of Timisoara, Romania 2008

Subfactors and Hadamard Matrices, **Fields Institute Thematic Program on Operator Algebras**, University of Toronto, Canada 2007

Subfactors and Hadamard Matrices, **Von Neumann Algebra Conference**, University of Sibiu, 2007

Continuous Families of Hyperfinite II_1 Factors with the same Standard Invariant, **The 21th International Conference on Operator Theory**, University of Timisoara, Romania 2006

Continuous Families of II_1 Factors with the same Standard Invariants, **Great Plains Operator Theory Symposium**, Iowa University, 2006

On II_1 Factors Arising from 2-Cocycles of w -rigid Groups, **Operator Algebras and Mathematical Physics International Conference**, IMAR, Romania 2005

Some finiteness results for commuting squares of matrix algebras, **Great Plains Operator Theory Symposium**, University of Central Florida, 2005

On II_1 Factors Arising from 2-Cocycles of w -rigid Groups, **Third Spring Institute on Non-Commutative Geometry and Operator Algebras**, Vanderbilt University, Nashville 2005

A rigidity result for irrational rotation HT factors, Special Session *Von Neumann Algebras and Non-Commutative Ergodic Theory* of the **AMS Meeting**, Vanderbilt University, Nashville 2004

Finiteness results for commuting squares of matrix algebras, **East Coast Operator Algebras Symposium**, US Naval Academy, Annapolis, 2004

Finiteness results for commuting squares of matrix algebras, **The 20th International Conference on Operator Theory**, University of Timisoara, Romania 2004

A rigidity result for irrational rotation HT factors, **Great Plains Operator Theory Symposium**, 2004

A primeness condition for commuting squares of matrix algebras, **Vanderbilt Mathematics Colloquium**, 2004

Service

Organizer of the *Special Session on von Neumann Algebras* at the *Joint American Mathematical Society Meeting* in New Orleans, January 2011

Problem Writer and Committee Head for the Tennessee Math Bowl Contest 2010

Organizer of the *Special Session on von Neumann Algebras*, held at the *Joint American Mathematical Society Meeting* in Washington, DC, January 2009

Journal reviewer for *Journal of Operator Theory*, *Proceedings of the American Mathematical Society* and *Transactions of the American Mathematical Society*

Trainer of the *Putnam* and *Virginia Tech Mathematics Competition* Teams for University of Tennessee (2007 - 2010) and Vanderbilt University (2004 - 2007)

Co-organizer and problem writer of the Tennessee Math Bowl and Fermat II Contests (2007 - 2009)

Organizer of the *Non-Commutative Geometry and Operator Algebras Research Training Group Seminar* at Vanderbilt University, 2005-2006 and UCLA's *Reading Seminar in Functional Analysis*, 2001 - 2004

Research Mentor for *Vanderbilt Research Experience for Undergraduates*, mentoring two undergraduate students during Summer 2005 and Summer 2006. Our work resulted in one paper published in the *Journal of Linear Algebra and Applications*

Member of the *Institute of Mathematics of the Romanian Academy* and of the *American Mathematical Society*