

JUSTIN GREENOUGH

CV

Education

PhD Mathematics UNH 2010 (projected)

MS Mathematics UNH 2007

BS Mathematics, Physics University of Alaska Anchorage 2003 (*magna cum-laude*)

Research Interests

Algebraic Category Theory

Representation Theory of Groups, Quantum Groups, Lie Algebras

Computational Complexity/Graph Theory

Higher Algebra, Categorical Physics

Awards and Scholarships

Summer 2008

UNH summer TA fellowship

NSF national scholarship for summer research

Fall 2003-Fall 2009

UNH semester Teaching Assistantships

Publications

The Monoidal 2-category of Bimodule Categories, J. Algebra, (submitted, under review) available on the arXiv

Centers, Centralizers and Almost Non-Degenerate Fusion Categories, in preparation

Braided Covers of Finite Tensor Categories, in progress

Quantum Galois Theory, in progress

Finite Abelian Group Cohomology of Finite State Automata, in progress

Visiting Positions

CESRI fellow KFKI Institute for Particle and Nuclear Physics Budapest, Hungary

Summer 2008

Selected Talks

Colorings, Cliques and the Four Color Theorem UAA advisor Larry Foster

Dec. 2002

Lie Algebra Representation Theory series of talks, UNH seminar Oct. 2006

Model Categories UNH advisor Maria Basterra May 2007

Group Representation Theory series of talks, UNH seminar Oct. 2007

Homology, Triangular and Derived Categories series of talks UNH seminar
 Spring/Summer 2008
Bimodule Categories and Representation Theory KFKI Budapest, Hungary
 May 2008
Category Theory in Budapest NSF CESRI Grant recipient debriefing Krakow,
 Poland Jul. 2008
Algebras, Coalgebras, Bialgebras UNH computer science seminar
 Fall 2008
Fusion and Module Categories UNH advisor Dmitri Nikshych Dec. 2008
TQFT and Complete Segal Spaces series of talks, UNH seminar Oct. 2009
Module Categories and Fusion Rules BUNY Conference on Algebra and Topology
 Nov. 2009

Conferences Attended

AMS Regional Conference UNH 2006
Binghamton University NY Conference on Algebra and Topology Nov. 2008
Modular Categories and Applications ISU Feb. 2009
Binghamton University NY Conference on Algebra and Topology Nov. 2009,
 Funding provided by NSF Grant No. DMS0946269
AMS Joint Mathematics Meeting San Francisco, CA Jan. 2010,
 Funding provided by NSF Grant No. DMS0946269

Teaching Experience

Discrete Math (TA)
 Calculus for Life Sciences (Instructor, TA)
 Calculus I (Instructor, TA)
 Calculus II (Instructor, TA)
 Differential Equations (Instructor, TA)
 Combinatorics (Substitute Instructor)

Letters of Recommendation

Dr. Maria Basterra (UNH basterra@cisunix.unh.edu)
 Dr. Eric Grinberg (UNH grinberg@unh.edu)
 Dr. Rita Hibscheiler (UNH rah2@cisunix.unh.edu)
 Dr. Dmitri Nikshych (UNH nikshych@cisunix.unh.edu)
 Dr. Kornél Szlachányi (KFKI Budapest szlach@rmki.kfki.hu)

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