

Department of Mathematics
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————— **RESEARCH INTERESTS** —————

Homotopy theory, algebraic topology, representation theory of finite groups, fusion systems

————— **EMPLOYMENT** —————

Depaul University Visiting Assistant Professor	2008 to present
Mathematical Sciences Research Institute Postdoctoral Fellow	Spring 2008
University of Illinois at Chicago Visiting Assistant Professor	2007 to 2008
Northwestern University Visiting Assistant Professor	2006 to 2007
University of Aberdeen EPSRC Research Fellow	2004 to 2006

————— **EDUCATION** —————

Massachusetts Institute of Technology Ph.D. in Mathematics Thesis: “Frobenius transfers and p -local finite groups,” advised by Haynes R. Miller	2004
University of Iceland Bachelor of Science in Mathematics, Computational Track Highest GPA ever achieved at the University of Iceland	2000
Hamrahlíð College Icelandic University Entrance Examination in the fields of Mathematics and Physics Dux scholae and awarded prizes for Mathematics and Physics	1996

————— **HONORS & AWARDS** —————

Sigma Xi, Massachusetts Institute of Technology chapter	2003
MIT Presidential Fellowship	2000 to 2001
Fulbright Scholarship (awarded, not taken)	2000
Landsbanki Academic Scholarship	2000
International Mathematical Olympiad, Silver medal	1997
International Mathematical Olympiad, Icelandic team member	1995 and 1996
Icelandic Mathematical Olympiad, First place	1996 and 1997
Icelandic Mathematical Olympiad, Second place	1995
Baltic Way Mathematical Olympiad, Icelandic team member	1994 to 1996

 PUBLICATIONS

1. (with B. E. Tenner) **Homotopy type of the boolean complex of a Coxeter system**
Advances in Mathematics **222** (2009) 409–430
2. (with B. E. Tenner) **Obtainable sizes of topologies on finite sets**
Journal of Combinatorial Theory, Series A **117** (2009) 138–151
3. **Retractive transfers and p -local finite groups**
Proceedings of the Edinburgh Mathematical Society **51** (2008) 465–487
4. **A Segal conjecture for p -completed classifying spaces**
Advances in Mathematics **215** (2007) 540–568
5. **Classifying spectra of saturated fusion systems**
Algebraic and Geometric Topology **6** (2006) 195–252
6. **Alternative stable homotopy classification of BG_p^\wedge**
Topology **45** (2006) 601–609
7. **Frobenius transfers and p -local finite groups**
Ph.D. Thesis, Massachusetts Institute of Technology, 2004
8. (with A. Claesson, S. Kitaev, B. E. Tenner) **Boolean complexes for Ferrers graphs**
submitted arXiv:0808.2307
9. (with R. Levi) **p -local finite group cohomology**
preprint
10. **Completion of G -spectra and stable maps between classifying spaces**
preprint
11. (with R. Stancu) **Encoding fusion data in the double Burnside ring**
preprint
12. **Completion of the representation ring of a finite group**
in preparation
13. **Completions of Burnside rings and Mackey functors**
in preparation
14. **Burnside rings and Mackey functors for saturated fusion systems**
in preparation
15. **Stable splittings of saturated fusion systems**
in preparation

 PRESENTATIONS

Conferences

AMS Sectional Meeting, Homotopy Session, Penn State	October 2009
Workshop on Representations of Finite Groups, Oberwolfach	March 2009
Algebraic Topology Semester, Institut Mittag-Leffler, Sweden	February 2006
Homotopy Theory and Group Actions Workshop, BIRS, Canada	November 2005
24th Nordic and 1st Franco-Nordic Congress of Mathematics, Iceland	January 2005

Lecture series

Aberdeen Topology Center Advanced Lecture Series October to December 2004

Colloquia

University of Iceland July 2008, August 2009
 University of Leicester December 2005
 University of Sheffield December 2005

Seminars

University of Madison at Wisconsin Group Theory Seminar November 2009
 University of Chicago Algebraic Topology Seminar November 2009
 University of Chicago Group Theory Seminar November 2009
 University of Ohio Group Theory Seminar (two talks) August 2009
 University of Minnesota Algebraic Representation Theory Seminar May 2009
 DePaul University Algebra Seminar (three talks) March–April 2009
 MIT Algebraic Topology Seminar December 2008
 Northwestern University Topology Seminar December 2008
 University of Chicago Algebraic Topology Seminar November 2008
 University of Illinois at Chicago Algebra Seminar October 2008
 DePaul University Algebra Seminar October 2008
 MSRI Joint Postdoctoral Seminar April 2008
 MSRI Seminar on Biset Functors April 2008
 MSRI Seminar on Homological Methods in Representation Theory February 2008
 University of Washington Topology Seminar November 2007
 University of Illinois at Urbana-Champaign Topology Seminar October 2007
 Purdue University Topology Seminar October 2007
 Indiana University Topology Seminar October 2007
 Northwestern University Topology Seminar (two talks) February 2007
 University of Chicago Algebraic Topology Seminar October 2006
 University of Illinois at Chicago Geometry, Topology and Dynamics Seminar October 2006
 Northwestern University Topology Seminar September 2006
 Universitat Autònoma Barcelona Algebraic Topology Seminar May 2006
 University of Aberdeen Topology Seminar November 2005
 Massachusetts Institute of Technology Topology Seminar November 2005
 Massachusetts Institute of Technology Topology Seminar April 2004
 Northwestern University Topology Seminar November 2003
 University of Illinois at Urbana-Champaign Topology Seminar November 2003

————— **OTHER RESEARCH ACTIVITY** —————

Research visits

Ohio State University (Ron Solomon) August 2009
 University of Aberdeen (Ran Levi) June 2008
 Stanford University (Michael Mandell) April 2008
 Massachusetts Institute of Technology (Haynes Miller) April 2008
 Universitat Autònoma Barcelona (Natalia Castellana) May 2006
 Massachusetts Institute of Technology (Haynes Miller) July 2005

Workshops and programs

Workshop on Representations of Finite Groups, Oberwolfach	March 2009
Program on Representation Theory of Finite Groups and Related Topics, MSRI	Spring 2008
Semester on Algebraic Topology, Institut Mittag-Leffler	February 2006
Workshop on Homotopy Theory and Group Actions, BIRS	November 2005

————— **PROFESSIONAL ACTIVITIES & SERVICE** —————

Research Affiliate, Reykjavík University	2007 to Present
Journal referee, <i>Homology, Homotopy and Applications</i>	
Grant referee, Icelandic Research Fund	
Icelandic team leader, International Mathematical Olympiad	2004 and 2006
Icelandic team coach, International Mathematical Olympiad	2000, 2001, 2004, and 2006
Co-organizer, MIT Topology Seminar	2003 to 2004
Student representative, University of Iceland Mathematics Students Union	1999 to 2000
Secretary, University of Iceland Mathematics Students Union	1998 to 1999
Icelandic team coach and deputy leader, Baltic Way Mathematical Olympiad	1999

————— **TEACHING EXPERIENCE** —————

DePaul University	2008 to present
Calculus I, II and III	
Business Calculus I and II	
Pre-calculus	
Basic Applied Algebra	
University of Illinois at Chicago	2007 to 2008
Calculus I	
Introduction to Topology I (cross-listed graduate and undergraduate course)	
Northwestern University	2006 to 2007
Calculus I and II	
Short course in calculus	
University of Aberdeen	2004 to 2006
Stable homotopy (post-graduate course)	
Real analysis (<i>tutorial leader</i>)	
Massachusetts Institute of Technology	2000 to 2004
Differential equations (<i>recitation instructor</i>)	
Linear algebra (<i>teaching assistant</i>)	
Introduction to Lie groups (<i>teaching assistant</i>)	
Algebraic topology (<i>teaching assistant</i>)	
University of Iceland	1997 to 2000
Use of computers in linear algebra	
Multivariate calculus (<i>recitation instructor</i>)	
Linear algebra (<i>recitation instructor</i>)	

————— REFERENCES —————

David Benson, University of Aberdeen
Ran Levi, University of Aberdeen
Markus Linckelmann, University of Aberdeen
Haynes Miller, MIT
John Wood, University of Illinois at Chicago (teaching)