Kári Ragnarsson   Curriculum Vitae

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Chicago, IL 60614   `http://math.depaul.edu/~kragnars`

———————— RESEARCH INTERESTS ————————

Representation theory, algebraic topology, combinatorics

———————— EMPLOYMENT ————————

Depaul University   **2008 to present**
   Visiting Assistant Professor

Mathematical Sciences Research Institute   **Spring 2008**
   Postdoctoral Fellow

University of Illinois at Chicago   **2007 to 2008**
   Visiting Assistant Professor

Northwestern University   **2006 to 2007**
   Visiting Assistant Professor

University of Aberdeen   **2004 to 2006**
   EPSRC Research Fellow

———————— EDUCATION ————————

Massachusetts Institute of Technology   **2004**
   Ph.D. in Mathematics
   Thesis: "Frobenius transfers and p-local finite groups," advised by Haynes R. Miller

University of Iceland   **2000**
   Bachelor of Science in Mathematics, Computational Track
   Highest GPA ever achieved at the University of Iceland

Hamrahlíð College   **1996**
   Icelandic University Entrance Examination in the fields of Mathematics and Physics
   Dux scholae and awarded prizes for Mathematics and Physics

———————— GRANTS & AWARDS ————————

NSF Grant DMS-1007619 "Stable homotopy methods in p-local group theory"	2010 to 2013
MIT Presidential Fellowship	2000 to 2001
Fulbright Scholarship (awarded, not taken)	2000
Landsbanki Academic Scholarship	2000
International Mathematical Olympiad, Silver medal	1997
Icelandic Mathematical Olympiad, First place	1996 and 1997

——————— PUBLICATIONS ———————

1. **Completion of G-spectra and stable maps between classifying spaces**
   Advances in Mathematics **227** (2011) 1539–1561

2. (with R. Levi) **p-local finite group cohomology**
   Homology, Homotopy and Applications, **13** (2011) 223–257

3. (with B. E. Tenner) **Homology of the boolean complex**
   Journal of Algebraic Combinatorics, to appear   arXiv:1005.4411

4. (with A. Claesson, S. Kitaev, B. E. Tenner) **Boolean complexes for Ferrers graphs**
   Australasian Journal of Combinatorics **48** (2010) 159–173

5. (with B. E. Tenner) **Obtainable sizes of topologies on finite sets**
   Journal of Combinatorial Theory, Series A **117** (2010) 138–151

6. (with B. E. Tenner) **Homotopy type of the boolean complex of a Coxeter system**
   Advances in Mathematics **222** (2009) 409–430

7. **Retractive transfers and p-local finite groups**
   Proceedings of the Edinburgh Mathematical Society **51** (2008) 465–487

8. **A Segal conjecture for p-completed classifying spaces**
   Advances in Mathematics **215** (2007) 540–568

9. **Classifying spectra of saturated fusion systems**
   Algebraic and Geometric Topology **6** (2006) 195–252

10. **Alternative stable homotopy classification of $BG_p^\wedge$**
    Topology **45** (2006) 601–609

11. **Frobenius transfers and p-local finite groups**
    Ph.D. Thesis, Massachusetts Institute of Technology, 2004

12. (with R. Stancu) **Saturated fusion systems as idempotents in the double Burnside ring**
    submitted   arXiv:0911.0085

13. (with S. Park, R. Stancu) **On the composition product of saturated fusion systems**
    submitted   arXiv:1102:5280

14. (with B. E. Tenner) **Derangement frequency in the boolean complex**
    submitted   arXiv:1104.0673

——————— PRESENTATIONS ———————

Conferences

AMS Sectional, Groups, Representations, & Characters Session, Notre Dame	November 2010
AMS Sectional, Algebraic & Topological Combinatorics Session, Notre Dame	November 2010
AMS Sectional, Topology and Combinatorics Session, Syracuse University	October 2010
AMS Sectional, Homotopy Session, Pennsylvania State University	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

Northern Illinois University	February 2011
Loyola University Chicago	February 2011
University of Iceland	July 2008, August 2009
University of Leicester	December 2005
University of Sheffield	December 2005

Seminars

Loyola University Chicago Algebra Seminar (two talks)	April 2011
DePaul University Algebra Seminar	October 2010
University of Wisconsin at Madison 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 (two talks)	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 Autonoma 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	August 2009
University of Aberdeen	June 2008
Stanford University	April 2008

Massachusetts Institute of Technology	April 2008
Universitat Autonoma Barcelona	May 2006
Massachusetts Institute of Technology	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
Workshop on Topology, Representation Theory and Cohomology, EPFL	April 2005

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

Research Affiliate, Reykjavík University   2007 to Present

Journal referee
  Homology, Homotopy and Applications; *Transactions of the American Mathematical Society*

Grant referee
  Icelandic Research Fund

Icelandic team leader, International Mathematical Olympiad	2004 and 2006
Icelandic team coach, International Mathematical Olympiad	2000, 2001, 2004, 2006 and 2011
Organizer, Equivariant Stable Homotopy Theory Seminar, Northwestern University	2010
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**
  Number Theory; Multi-variable Calculus (I and II); Single-variable Calculus (I, II and III);
  Business Calculus (I and II); Pre-calculus; Intermediate Algebra; 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**
  Single-variable Calculus (I and II); Calculus for Life Sciences

University of Aberdeen   **2004 to 2006**
  Stable Homotopy (post-graduate course); Real Analysis *(tutorial leader)*

Massachusetts Institute of Technology   **2000 to 2004**
  Differential Equations *(recitation instructor)*; Linear Algebra *(teaching assistant)*;
  Introduction to Lie Groups *(teaching assistant)*; Algebraic Topology *(teaching assistant)*

University of Iceland   **1997 to 2000**
  Use of Computers in Linear Algebra; Multivariate Calculus *(recitation instructor)*;
  Linear Algebra *(recitation instructor)*