Henning Arnor Ulfarsson

School of Computer Science, Reykjavik University
Menntavegi 1, 101 Reykjavik, Iceland
E-mail: henningu@ru.is, *Web:* staff.ru.is/henningu
Phone: +354 599-6200, *Fax:* +354 599-6201

Last updated: October 1, 2014

Personal

Born 11/21/1981 in Reykjavik, Iceland. Citizen of Iceland. Married with three daughters

---

Academic Positions

- Assistant Professor, School of Computer Science,
  Reykjavik University, Reykjavik, Iceland, (Half-time: 12/2010-08/2013, Full-time: 08/2013-)
- Postdoctoral Researcher, School of Computer Science,
  Reykjavik University, Reykjavik, Iceland, (9/2009-6/2013)

Education

- **Brown University**, Providence, Rhode Island, USA (2004-2009)
  - Ph.D. in Mathematics, June 2009
    Thesis: *Extending Grothendieck topologies to diagram categories and Serre functors on diagram schemes*
  - M.Sc. in Mathematics, May 2006

- **University of Iceland,** Reykjavik, Iceland (2001-2004)
  - B.Sc. in Mathematics, June 2004

- **Commercial College of Iceland,** Reykjavik, Iceland (1997-2001)

Research Interests

My research interests are in the areas of algebraic geometry and algebraic combinatorics and their intersections, in particular Schubert calculus of Grassmannians and flag varieties, Young tableaux, patterns in permutations and equivalence relations on the symmetric group. Recently I have also become interested in the SINR-model in ad-hoc wireless networks, especially its mathematical properties.

Publications and Preprints

Publications in Journals.

- H. Ulfarsson and A. Woo. *Which Schubert varieties are local complete intersections?*
  The Proceedings of the London Mathematical Society, Volum 107 (2013) Issue No. 5, 1004–1052
  http://arxiv.org/abs/1111.6146
- S. Kitaev, P. Salimov, C. Severs and H. Ulfarsson. *Restricted non-separable planar maps and some pattern avoiding permutations*
  in Discrete Applied Mathematics 161 (2013), pp. 2514–2526
  http://arxiv.org/abs/1202.1790
- H. Ulfarsson. *Describing West-3-stack-sortable permutations with permutation patterns*
  Séminaire Lotharingien de Combinatoire, Volume 67 (2012), Article B67d
  http://www.mat.univie.ac.at/~slc/wpapers/s67ulfarss.pdf
- J. Sack and H. Ulfarsson. *Refined inversion statistics on permutations*
  Electronic Journal of Combinatorics, Volume 19 (2012)
  http://arxiv.org/abs/1106.1995

- H. Ulfarsson. *A unification of permutation patterns related to Schubert varieties*
  Pure Mathematics and Applications Volume 22 (2011) Issue No. 2, 273–296
  http://arxiv.org/abs/1002.4361
- S. Kitaev, P. Salimov, C. Severs and H. Ulfarsson. *Word-representability of line graphs*
  Open Journal of Discrete Mathematics, Volume 1, Number 2 (2011), 96–101
  http://arxiv.org/abs/1102.3980
- Q. Chen, S. Marcus and H. Ulfarsson. *Very twisted stable maps*
  Communications in Analysis and Geometry, Volume 18, Number 4. (2010), 831–855
  http://arxiv.org/abs/0811.0035

Publications in Conference Proceedings.

- A. Claesson and H. Ulfarsson. *Sorting and preimages of pattern classes*
  The 24th International Conference on Formal Power Series & Algebraic Combinatorics, Nagoya, Japan, 2012
  Discrete Math. Theor. Comput. Sci. Proc. AR (2012), 595–606
  http://arxiv.org/abs/1203.2437
- H. Ulfarsson and A. Woo. *Which Schubert varieties are local complete intersections? Extended abstract*
  The 24th International Conference on Formal Power Series & Algebraic Combinatorics, Nagoya, Japan, 2012.
  Discrete Math. Theor. Comput. Sci. Proc. AR (2012), 753–764
- S. Kitaev, P. Salimov, C. Severs and H. Ulfarsson. *On the representability of line graphs*
  The 15th Conference on Developments in Language Theory, Milan, Italy, 2011. G. Mauri and A. Leporati (Eds.): DLT 2011, LNCS 6795, pp. 478–479. Springer, Heidelberg (2011)
  http://arxiv.org/abs/1102.3980
- H. Ulfarsson. *A unification of permutation patterns related to Schubert varieties. Extended abstract*
  The 22nd International Conference on Formal Power Series & Algebraic Combinatorics, San Francisco, 2010.
  Discrete Math. Theor. Comput. Sci. Proc. AN (2010) 1057–1068
  http://arxiv.org/abs/1002.4361v2

Preprints.

- M. Albert, B. Gudmundsson and H. Ulfarsson. *Collatz permutations*
  Preprint 2014, http://arxiv.org/abs/1404.3054
- I. Hilmarsson, I. Jonsdottir, S. Sigurdardottir, L. Vidarsdottir and H. Ulfarsson. *Wilf-classification of mesh patterns of short length*
  Submitted 2014, http://arxiv.org/abs/1409.3165
- E. Asgeirsson, J. Foley, H. Gudmundsdottir, M. Halldorsson, G. Järvelä, H. Ulfarsson and Y. Vigfusson. *Measurement Based Interference Models for Wireless Scheduling Algorithms*
  Preprint 2014, http://arxiv.org/abs/1401.1723v1
- H. Magnusson and H. Ulfarsson. *Algorithms for discovering and proving theorems about permutation patterns*
  Preprint 2013, http://arxiv.org/abs/1211.7110
- H. Ulfarsson. *Pattern avoiding equivalence classes*
  Preprint 2010, http://arxiv.org/abs/1005.5419

Non-peer-reviewed publications.

- H. Ulfarsson. *Tölvur gera ótharfa hluti ótharfa* (e. *Computers make unnecessary things unnecessary*)
  HR-blaðið (an annual magazine published by Reykjavik University), 2013
- H. Ulfarsson. *Allt sem thú vildir vita um tölvunarstærðfræði* (e. *Everything you wanted to know about discrete math and computer science*)
  HR-blaðið (an annual magazine published by Reykjavik University), 2012
- J. Sturluson and H. Ulfarsson. *Icesave er leikur einn* (e. *The Icesave dispute from a game theoretic viewpoint*)
  HR-blaðið (an annual magazine published by Reykjavik University), 2011

STUDENTS

Ph.D. students.

- Christian Bean, fall 2014 – . Bean is studying algorithms for guessing generating functions enumerating sets of permutations.

M.Sc. students.

- Hjalti Magnússon, spring 2012 – spring 2013. Magnússon wrote a thesis on algorithms that can automatically describe the preimage of a sorting operator. He considered sorting operators such as a stack with limitted depth, a queue as well as others. By introducing meta patterns he was able to give a unified approach to describing their preimages. He also extended an algorithm first found by Ulfarsson and Claesson (2012) to automatically describe the West-3-stack-sortable permutations.
- Sigríður Viðarsdóttir, fall 2012 – Viðarsdóttir is studying isomorphisms of consecutive pattern classes.

Final Projects of B.Sc. students.

- *A responsive web site for the smart market for study-room allocation at Reykjavik University* (fall 2012)
  Co-supervised two B.Sc. students at RU, Gudrun Sif Hilmarsdottir and Patrekur Patrekson, on a final project.
- *A smart market for study-room allocation at Reykjavik University* (fall 2011)
  Co-supervised two B.Sc. students at RU, Anna Sigga Lúðvíksdóttir and Sævar Jónasson, on a final project.
- *Wilf-classification of mesh patterns and marked mesh patterns* (spring 2011)
  Supervised four B.Sc. students at RU, Ingibjörg Jónsdóttir, Ísak Hilmarsson, Sigríður Viðarsdóttir and Steinunn Sigurðardóttir, on a final project, which was accepted for a talk at the conference Permutation Patterns 2011. `http://web.mac.com/hemsa/Ulfarsson/Research_files/Allt.pdf`

Smaller projects.

- *UROP: A Haskell implementation of BiSC* (fall 2012)
  Supervised a B.Sc. student at RU, Helgi Kristvin Sigurbjarnarson, on the porting of the BiSC pattern mining algorithm to Haskell
- *Game theory and pattern avoidance* (fall 2010)
  Supervised an M.Sc. student at RU, Hjalti Magnússon, on a small project related to the course Game Theory, RU fall 2010. `http://web.mac.com/hemsa/Ulfarsson/Students_files/PatternGame.pdf`

Talks, Presentations and Posters

- New York Combinatorics Seminar, City University New York, USA, June 2014
  Guessing and proving theorems for permutation patterns. Joint work with A. Claesson and H. Magnusson.
- Permutation Patterns, East Tennessee State University, USA, July 2014
  Poster: *Collatz meets Fibonacci*. Joint work with M. Albert, who presented, and B. Gudmundsson.
- The 26th International Conference on Formal Power Series & Algebraic Combinatorics,
  Chicago, USA July 2014
  Software demonstration: *Algorithms for discovering and proving theorems involving permutation patterns*.
- MIT Combinatorics Seminar, Boston, MA, October 2013.
  Permutations, patterns and algorithms.
- The 25th International Conference on Formal Power Series & Algebraic Combinatorics,
  Paris, France, July 2013
  Software demonstration: *BiSC: A learning algorithm for mesh patterns*.
- Permutation Patterns, University Paris Diderot, Paris, France, July 2013
  The interaction between equivalence relations on the symmetric group and pattern avoidance. Joint work with A. Claesson.
- Permutation Patterns, University Paris Diderot, Paris, France, July 2013
  Bijective maps based on mesh patterns. Joint work with L. Vidarsdottir, who presented.
- Permutation Patterns, University Paris Diderot, Paris, France, July 2013
  Preimages of single-pass sorting operators. Joint work with H. Magnusson, who presented.
- The Pearls of Computer Science Colloquium, Reykjavik University, Iceland, May 2013
  Donald Knuth: The great inventor
- ICE-TCS Seminar, Reykjavik University, Iceland, March 2013
  Crazy bijections between planar maps, beta-trees and permutations. Joint work with S. Kitaev, P. Salimov and C. Severs
- 2013 Joint Mathematics Meetings, San Diego, CA, January 2013
  GRIM: An algorithm for the discovery of generalized permutation patterns.
  Joint work with A. Claesson
- The 24th International Conference on Formal Power Series & Algebraic Combinatorics,
  Nagoya, Japan, August 2012
  Sorting and preimages of pattern classes. Joint work with A. Claesson

- The 24th International Conference on Formal Power Series & Algebraic Combinatorics, Nagoya, Japan, August 2012
  Poster: *Which Schubert varieties are local complete intersections?*. Joint work with A. Woo
- Permutation Patterns, University of Strathclyde, Glasgow, UK, June 2012
  Automated discovery of permutation patterns. Joint work with A. Claesson.
- Reykjavik University Lecture Marathon, Iceland, March 2012
  Proof by Computer
- The 3f RU Conference, Reykjavik University, Iceland, March 2012
  What is DIMACS (Discrete Math and Computer Science)?
- ICE-TCS Seminar, Reykjavik University, Iceland, February 2012
  Automatic discovery of permutation patterns. Joint work with A. Claesson
- 2012 Joint Mathematics Meetings, Boston, MA, January 2012
  Restricted rooted non-separable planar maps. Preliminary Report.
  Joint work with S. Kitaev, P. Salimov and C. Severs
- 2012 Joint Mathematics Meetings, Boston, MA, January 2012
  Refined inversion statistics on permutations. Joint work with Joshua Sack, who presented.
- Mathematics in Iceland 2011, Conference of the Icelandic Mathematical Society, Reykholt, November 2011
  Maps, trees and patterns. Joint work with S. Kitaev, P. Salimov and C. Severs
- Computer and Information Sciences Seminar, University of Strathclyde, Glasgow, UK, October 2011
  Sorting algorithms and permutation patterns.
- ICE-TCS Seminar, Reykjavik University, Iceland, October 2011
  Patterns prohibiting sorting.
- University of Washington Combinatorics Seminar, WA, June 2011
  Generalized permutation patterns and their applications.
- Permutation Patterns, California Polytechnic State University, CA, June 2011
  Marked mesh patterns and local complete intersection Schubert varieties. Joint work with A. Woo.
- ICE-TCS Theory Day, Reykjavik University, Iceland, May 2011
  Marked mesh patterns and connections with geometry.
- Joint Mathematics Meetings, New Orleans, Louisiana, January 2011
  Local complete intersection Schubert varieties. Preliminary Report. Joint work with A. Woo who presented.
- Reykjavik University Lecture Marathon, Iceland, March 2010
  The Icesave dispute from the viewpoint of game theory. Joint work with Jón Thór Sturluson.
- Mathematics Colloquium, California State University, Long Beach, California, December 2010
  Counting special inversions in permutations. Joint work with Joshua Sack who presented.
- Mathematics Colloquium, University of Iceland, Reykjavik, Iceland, November 2010
  Counting special inversions in permutations. Joint work with Joshua Sack.
- Permutation Patterns, Dartmouth College, NH, August 2010
  Detecting singularities of Schubert varieties with permutation patterns.
- Formal Power Series & Algebraic Combinatorics, San Francisco State University, CA, August 2010
  Poster: *A unification of permutation patterns related to Schubert varieties*.
- Summer Meeting of the Canadian Mathematical Society, University of New Brunswick, Fredericton, Canada, June 2010
  Equivalence relations on permutations and pattern avoidance.
- 10th Nordic Combinatorial Conference, Reykjavik University, Iceland, May 2010
  Toric permutations and pattern avoidance.
- ICE-TCS Seminar, Reykjavik University, Iceland, April 2010
  Equivalence relations on permutations and pattern avoidance.
- Mathematics Colloquium, University of Iceland, Reykjavik, Iceland, March 2010
  Patterns in algebraic geometry.
- Reykjavik University Mathematics Undergraduate Seminar, Iceland, November 2009
  The umbral calculus.
- Conference of the Icelandic Mathematical Society, Leirubakki, September 2009
  Young tableaux and patterns in permutations.
- Mathematics Colloquium, University of Iceland, Reykjavik, Iceland, March 2009
  Teaching mathematics with Sage.
- Talk, Reykjavik University, Iceland, March 2009
  Teaching mathematics with Sage.

- Graduate Conference in Algebra and Topology, SUNY Binghamton University, Binghamton, NY, November 2008
  Configuration schemes and their Serre functors. A subset of this work is joint with J. Wise.
- Graduate Student Presentation, PCMI Graduate Summer School on Analytic and Algebraic Geometry: Common Problems–Different Methods, Park City Mathematics Institute, Park City, UT, July 2008
  Configuration schemes and their Serre functors. A subset of this work is joint with J. Wise.
- Mathematics Colloquium, University of Iceland, Reykjavik, Iceland, January 2008
  Sheaves on configuration schemes.
- Graduate Student Seminar, Brown University, Providence, RI, November 2007
  Sheaves on Configuration Schemes.
- Graduate Student Seminar, Brown University, Providence, RI, March 2006
  Transcendence of e and π.
- Lecture, Commercial College of Iceland, Reykjavik, Iceland, April 2003
  Introduction to Metric Spaces.

Conferences, Workshops and Mini-Courses Attended

- Joint Mathematics Meetings 2010, San Francisco, CA, January 13-16, 2010
- Combinatorial, Enumerative and Toric Geometry, Mathematical Sciences Research Institute, Berkeley, CA, March 23-27, 2009
- SAGE Days: Algebraic Geometry, Mathematical Sciences Research Institute, Berkeley, CA, March 10-12, 2009
- Classical Algebraic Geometry Today, Mathematical Sciences Research Institute, Berkeley, CA, January 26-30, 2009
- Graduate Conference in Algebra and Topology, Binghamton University, Binghamton, NY, November 8, 2008
- AMS Sectional Meetings, Wesleyan University, Middletown, CN, October 11-12, 2008.
- PCMI Graduate Summer School on Analytic and Algebraic Geometry: Common Problems–Different Methods, Park City Mathematics Institute, Park City, UT, July 6-26, 2008
- School and Workshop on Aspects of Moduli, Pisa, Italy, June 15-28, 2008. (Attended week 1)
- VIGRE Mini-Course on Derived Categories, University of Utah, Salt Lake City, UT, June 4-16, 2007
- International Conference on Integral Geometry, Harmonic Analysis and Representation Theory, University of Iceland, Reykjavik, Iceland, August 15-18, 2007
- 24th Nordic/1st Franco–Nordic Congress of Mathematicians, University of Iceland, Reykjavik, Iceland, January 6-9, 2005
- Complex Days of the North, University of Iceland, Reykjavik, Iceland, January 4-5, 2005
- Conference of the Icelandic Mathematical Society, Reykholt, Iceland, October 13-14, 2001

Teaching Experience

Reykjavik University, Iceland.

- Spring 2014: Graded homework for a 3 week course, Problem Solving (T-110-VERK) for B.Sc. students in computer science
- Spring 2014: Organized a 12 week course, Game Theory (E-409-LEIK) for B.Sc. and M.Sc. students in computer science and mathematics
- Spring 2014: Organized a 12 week course, Topology (T-612-GRAND) for B.Sc. and M.Sc. for students in discrete mathematics and computer science
- Spring 2014: Organized a 12 week course, Algebra and Combinatorics (T-218-ALCO) for B.Sc. students in discrete mathematics and computer science
- Fall 2013: Teaching two problem sessions in Discrete Mathematics I (T-201-STR1) for B.Sc. students in computer science
- Fall 2013: Organizing a 15 week course, Mathematical Programming (E-402-STFO) for B.Sc. students in discrete mathematics and computer science
- Fall 2013: Organizing a 15 week course, Cryptography and Number Theory (T-513-CRNU) for B.Sc. students in discrete mathematics and computer science
- Summer 2013: Co-organized a 4 week courses, Calculus II (T-201-STA2) for B.Sc. students in engineering

- Spring 2013: Organized a 12 week course, Algebra and Combinatorics (T-218-ALCO) for B.Sc. students in discrete mathematics and computer science
- Fall 2012: Organized a 15 week course, Mathematical Programming (E-402-STFO) for B.Sc. students in computer science and mathematics
- Summer 2012: Organized a 6 week course, Functional Programming (T-209-FUPR) for B.Sc. students in computer science and mathematics
- Summer 2012: Co-organized a 4 week courses, Calculus II (T-201-STA2) for B.Sc. students in engineering
- Spring 2012: Organized a 12 week course, Game Theory (E-409-LEIK) for B.Sc. and M.Sc. students in computer science and mathematics
- Fall 2011: Organized a 15 week course, Topology with Application to Computer Science (T-635-TOAP) for B.Sc. students in computer science and mathematics
- Fall 2011: Organized a 1 week preparatory course in discrete mathematics for students entering a B.Sc. program in computer science
- Summer 2011: Organized two 4 week courses, Mathematics II (AT STÆ2003) for B.Sc. students in civil engineering and Calculus II (T-201-STA2) for B.Sc. students in engineering
- Spring 2011: Organized a 12 week course, Mathematical Programming (E-402-STFO) for B.Sc. students in computer science and mathematics
- Spring 2011: Assistant teacher in a 12 week course, Design and Analysis of Algorithms (T-604-HGRE) for B.Sc. students in computer science and mathematics, and M.Sc. students in computer science
- Fall 2010: Organized a 13 week course, Game Theory (E-409-LEIK) for B.Sc. and M.Sc. students in computer science and mathematics
- Fall 2010: Organized a 1 week preparatory course in discrete mathematics for students entering a B.Sc. program in computer science
- Summer 2010: Co-organized two 4 week courses, Mathematics II (AT STÆ2003) for B.Sc. students in civil engineering and Calculus II (T-201-STA2) for B.Sc. students in engineering
- Spring 2010: Organized a 13 week course, Statistics (T-217-STAT), for B.Sc. students in computer science
- Fall 2009: Organized a 12 week course, Complex Analysis (T-310-COAN), for B.Sc. students in mathematics
- Summer 2009: Co-organized two 4 week courses, Mathematics II (AT STÆ2003) for B.Sc. students in civil engineering and Calculus II (T-201-STA2) for B.Sc. students in engineering
- Spring 2009: Organized a three week course, Introduction to Algebraic Geometry (E-312-IALR) for B.Sc. students in mathematics
- Fall 2008: Organized a 6 week reading course, Metric Spaces (E-514-FRID), for B.Sc. students in mathematics
- Fall 2008: Organized a 6 week reading course Topology (E-612-GRAN), for B.Sc. students in mathematics
- Fall 2008: Organized a 12 week course, Mathematical Analysis II (E-208-CALC), for B.Sc. students in mathematics

Brown University, Providence, Rhode Island, USA.

- Fall 2007 - Spring 2008: Obtained the Sheridan Center Teaching Certificate #1. This certificate is attained after participating in the Sheridan Center teaching seminar and having one's teaching observed and critiqued by teaching consultants from the center
- Fall 2007: As a Teaching Fellow I was responsible for lectures for Advanced Placement Calculus (Math 0190), grading of exams and holding office hours
- Summer 2007: As a Course Instructor at the Brown University Summer School I organized the summer version of Introductory Calculus II (Math 0100)
- Fall 2006: A a Teaching Fellow I was responsible for lectures for Intermediate Calculus (Math 18), grading of exams and holding office hours Fall 2005 - Spring 2006: As a Teaching Assistant I was responsible for recitation sections for Introductory Calculus II (Math 10), grading of exams and holding office hours

University of Iceland.

- Spring 2008: Responsible for lectures and problem sessions in Calculus IIC, for B.Sc. students in chemistry. Also assisted a German transfer student with Calculus IIB
- Spring 2004: Responsible for problem sessions for Calculus IIB for B.Sc. students in engineering
- Fall 2003: Responsible for problem sessions for Calculus IB, for B.Sc students in engineering

Commercial College of Iceland.

- 2001-2003: Prepared students for the entrance examinations for the Icelandic team at the Physics Olympiad

Professional Experience

- **Specialist**, Landsbanki Íslands (Bank in Iceland) 7/06-8/06
  Pricing of complex derivatives using, among other things, binomial trees. Involved considerable programming in MatLab
- Talnatök inc. (Educational company in Iceland) 6/05-8/05
  Preparation of course material for a preparatory course for students entering the Department of Engineering at the University of Iceland; served also as a substitute teacher
- **Research Assistant**, Dept. of Mathematics, University of Iceland 6/03-8/03,6/04-8/04
  Assisted Dr. Reynir Axelsson in preparing textbooks for publication, mainly by drawing figures and proofreading
- **Research Assistant**, Dept. of Physics, University of Iceland, 6/02-8/02
  Assisted Dr. Ari Ólafsson on the construction of a 70 ft. Focault pendulum and on a photoacoustic project
- **Programmer**, deCODE genetics, Reykjavik, Iceland, 6/01-8/01
  Debugging of software (Black–box debugging)

Memberships and Administrative Duties

Membership in boards.

- President of the Icelandic Mathematical Society, 2011-
- Member of the board of the Icelandic Mathematical Society, 2010
- Member of the Undergraduate Studies Council of the School of Computer Science at Reykjavik University, 2010-
- Member of the Environmental Group at Reykjavik University, 2010-

Organization.

- One of the organizers of a new undergraduate degree, *Discrete Mathematics and Computer Science*, at Reykjavik University, which opened in fall 2012
- Member of the organizing committee of FPSAC 2011
- Chair of the organizing committee of the conference Mathematics in Iceland 2011
- Co-organizer of the Icelandic Postdoc and Graduate Student Seminar, 2010

Memberships.

- American Mathematical Society, 2004-
- Icelandic Mathematical Society, 2004-
- Icelandic Centre of Excellence in Theoretical Computer Science, 2008-
- Reykjavik Combinatorics Group, 2008-2011
- Mathematics Institute at Reykjavik University, 2008-2010
- Mathematics Group at Reykjavik University, 2011-
- 3F Society for IT and Education, 2011-

Other.

- Referee work for journals: Journal of Combinatorial Theory – Series A, Discrete Mathematics, Journal of Integer Sequences, Discrete Applied Mathematics, Pure Mathematics and Applications, The Australasian Journal of Combinatorics, European Journal of Combinatorics, Journal of Combinatorics, The Electronic Journal of Combinatorics,
- Referee work for conferences: European Symposia on Algorithms 2011, Formal Power Series and Algebraic Combinatorics 2013
- Review work for MathSciNet
- Other referee work: Grant applications to the NSA Mathematical Sciences Program
- External examiner for final projects of B.Sc. students at Reykjavik University:
  - Developing Game AI for the Real-Time Strategy Game Starcraft, spring 2011 (three students)
  - Arduino as a Random Number Generator, fall 2011 (one student)
- External reviewer for an oral exam in an M.Sc. course in algebraic topology at the University of Iceland in fall 2010
- Member of the Combinatorics judging panel for the Baltic Way 2010

Awards and Grants

- Scandinavia-Japan Sasakawa Foundation Grant to travel to Japan to attend FPSAC 2012
- Co-proposer on a 3 year grant of excellence from the Icelandic Research Fund, awarded December 2011
- Erasmus grant for visiting University of Strathclyde, Glasgow, UK, fall 2011
- George Irving Hopkins Fellowship, 2008-2009
- Valedictorian when graduating from the Commercial College of Iceland, 2001
- Ranked highest of the Icelandic team at the 2001 Physics Olympiad

Recommendations

Research after Ph.D.

- **Einar Steingrímsson**, Professor
  University of Strathclyde, Department of Computer and Information Sciences
  Livingstone Tower, 26 Richmond Street, Glasgow G1 1XH
  Phone: +44 141 548-4680, *E-mail:* einar.steingrimsson@cis.strath.ac.uk

- **Michael Albert**, Associate Professor
  University of Otago, Department of Computer Science
  Owheo Building, Room 2.52, 133 Union Street East, Dunedin 9016, New Zealand
  Phone: +64 3 479-8586, *E-mail:* malbert@cs.otago.ac.nz

- **Sergey Kitaev**, Reader
  University of Strathclyde, Department of Computer and Information Sciences
  Livingstone Tower, 26 Richmond Street, Glasgow G1 1XH
  Phone: +44 141 548-3473, *E-mail:* sergey.kitaev@cis.strath.ac.uk

- **Anders Claesson**, Senior Lecturer
  University of Strathclyde, Department of Computer and Information Sciences
  Livingstone Tower, 26 Richmond Street, Glasgow G1 1XH
  Phone: +44 141 548-3617, *E-mail:* anders.claesson@cis.strath.ac.uk

Research during Ph.D.

- **Dan Abramovich**, Professor
  Brown University, Department of Mathematics
  Box 1917, Providence, RI 02912, USA
  Phone: +1 401-863-7968, *E-mail:* abrmovic@math.brown.edu

- **Angelo Vistoli**, Professor
  Scuola Normale Superiore, Classe di Scienze
  Piazza dei Cavalieri 7, 56126 Pisa, Italy
  Phone: +39 050-509310, *E-mail:* angelo.vistoli@sns.it

Teaching.

- **Jeffrey Hoffstein**, Professor
  Brown University, Department of Mathematics
  Box 1917, Providence, RI 02912, USA
  Phone: +1 401-863-1127, *E-mail:* jhoff@math.brown.edu

- **Björn Thór Jónsson**, Associate Professor
  Reykjavik University, School of Computer Science
  Menntavegi 1, 101, Reykjavik, Iceland
  Phone: +354 599-6240, *E-mail:* bjorn@ru.is

- **Ása Björk Stefánsdóttir**, Teaching Coach
  Reykjavik University, Support Services/Academic Affairs
  Menntavegi 1, 101 Reykjavik, Iceland
  Phone: +354 599-6288, *E-mail:* asabjork@ru.is