

Curriculum Vitae STEVEN KLEE

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Citizenship: United States

Date of Birth: July 1, 1983

Department of Mathematics

University of Washington

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Education

Ph.D. Mathematics, University of Washington, May 2010 (expected)

Thesis directed by Isabella Novik.

M.S., Mathematics, University of Washington, 2009

B.S., Mathematics (summa cum laude), Valparaiso University, 2005.

Budapest Semesters in Mathematics Program, Spring 2004

Research Interests: Algebraic and geometric combinatorics. Combinatorics of simplicial and cubical decompositions of polytopes and manifolds. Connections between combinatorics, commutative algebra, and algebraic topology.

Honors

VIGRE Fellow, University of Washington Department of Mathematics,
Spring and Summer Quarters 2009.

Graduate Student Top Scholar Award, University of Washington Department
of Mathematics, September 2005.

Phi Beta Kappa Society, Eta of Indiana Chapter.

Publications

5. Lower bounds for cubical pseudomanifolds, arXiv:0910.0042, submitted.
4. (with Michael Goff and Isabella Novik), Balanced complexes and complexes without large missing faces, arXiv: 0907.1669, to appear in Arkiv för Matematik.
3. The fundamental group of balanced simplicial complexes and posets, *Electronic J. Combin.*, **16** (2009-10), no. 2, Research Paper 7, 12pp.
2. (with Leah Yates) Tight subdesigns of the Higman-Sims design, *Rose-Hulman Undergrad. Math. J.*, **5** (2004), no. 2, 15pp. (written as an undergraduate)
1. (with Rick Gillman and Lara Pudwell) On the edge set of graphs of lattice paths, *Int. J. Math. Math. Sci.*, **61** (2004), 3291- 3299. (written as an undergraduate)

Professional Activities

Organizer of the University of Washington Graduate Student Combinatorics
Seminar – Academic Year 2009-2010.

One of four organizers of the University of Washington Undergraduate
Mathematical Sciences Seminar – Winter, Spring 2009.

Teaching Experience

University of Washington, Seattle, WA

Lead TA – Academic Year 2009-2010

TA Mentor – Autumn 2006, Autumn 2007, Autumn 2008

Teaching Assistant – Autumn 2005 - present

Courses for which I have been a TA:

Calculus I, Calculus II, Calculus III

Courses for which I have been the primary instructor:

Calculus IV – Spring 2008

Calculus I – Summer 2007

Summer Institute for Mathematics at the University of Washington

Student Activities Coordinator – Summer 2008, 2009.

Head Teaching Assistant/Counselor – Summer 2006, 2008.

Teaching Assistant/Counselor – Summer 2005.

Served as a teaching assistant and camp counselor at a math camp for twenty-four gifted high school students.

Montlake Math Challenge, Seattle, WA

Instructor – Academic Year 2007-2008, 2008-2009.

Organized an after school math enrichment program for third, fourth, and fifth graders at Montlake Elementary School.

Washington Middle School Math Challenge, Seattle, WA

Instructor – Academic Year 2009-2010.

Organized an after school math enrichment program for sixth and seventh graders at Washington Middle School.

University of Washington Math Day, Seattle, WA

Volunteer Instructor – 2009, 2010.

Helped organize a lecture session for local high school students who participated in the University of Washington's annual Math Day outreach program.

Talks and Presentations

“The number of vertices in a cubical complex,”

Reed College Mathematics Colloquium, September 2009.

“Lower bounds for balanced and cubical complexes,”

University of Kentucky Discrete Combinatorics, Algebra, Topology and Statistics Seminar, September 2009.

“The fundamental group of balanced simplicial complexes,”

Graduate Student Combinatorics Conference,

University of Kentucky, March 2009.

“Planar graphs and the four color theorem,”

University of Washington Undergraduate ACMS Seminar, January 2009.

“The fundamental group of balanced simplicial complexes,”

University of Washington Combinatorics Seminar, January 2009.

References

Research References:

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Christos Athanasiadis
University of Athens
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Teaching References:

Ron Irving
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rsi@uw.edu

Julia Pevtsova
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julia@math.washington.edu