

Aaron M. Smith

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Department of Mathematics
University of Pennsylvania *E-mail:* aasmith@math.upenn.edu
Philadelphia, PA 19104 USA *WWW:* www.math.upenn.edu/ aasmith
- PERSONAL INFORMATION Citizenship: USA
Born: December 10, 1983
- EDUCATION **University of Pennsylvania**, Philadelphia, Pennsylvania USA
Ph.D., Mathematics, September, expected graduation: May 2011.
• Advisor: Jonathan Block
- Pennsylvania State University**, State College, Pennsylvania USA
M.S., Mathematics, May, 2006.
• Advisor: Grzegorz Swiatek
B.S., Mathematics, May, 2006, with distinction and honors.
B.S., Physics, May, 2006, with distinction.
- FELLOWSHIPS, HONORS AND AWARDS SAS Dissertation Completion Fellowship, UPenn 2010-2011.
Benjamin Franklin Fellow, UPenn 2006-2011.
Evan Johnson Memorial Award, Penn State Math Dept. 2006.
McAmmon Scholarship, Penn State Math Dept. 2005.
Teas Research Fellowship, Penn State Phys. Dept. 2004.
Certificate: Math in Moscow Program, Indep. U. of Moscow, Russia, Spring 2004.
Academic Excellence Fellowship, Penn State, 2002-2006.
Braddock Scholarship, Penn State, 2002-2006.
- RESEARCH SUPPORT Shapiro Visitor, Dartmouth College, April 4-9, 2010.
Research Experience for Undergraduates, Physics, Penn State University, Summer 2004.
- PUBLICATIONS AND PREPRINTS Jonathan Block and Aaron M. Smith, A Riemann-Hilbert correspondence for infinity-local systems, preprint, arXiv:0908.2843.
- RESEARCH TALKS *The Higher Riemann-Hilbert Correspondence*, Deformation Theory Seminar, UPenn, April, 2011.
The Higher Riemann-Hilbert Correspondence, GFA Seminar, Penn State University, March, 2011.
A Framework for Generalizing Pseudoholomorphic Invariants, GAP Seminar, Penn State University, March, 2011.
A Framework for Generalizing Pseudoholomorphic Invariants, Geometry-Topology Seminar, University of Waterloo, February, 2011.
Towards a Conformal Field Theory, Analysis Seminar, Dartmouth College, April, 2010.
A Homotopy Riemann Hilbert Correspondence, Geometry Seminar, IMPA, Rio de Janeiro, Brazil, December 2009.
Several talks at Upenn on
Hamiltonian Floer theory, pseudoholomorphic curves
Quantum cohomology
Infinity-local systems and the Riemann-Hilbert correspondence
Simplicial localization of categories.

CONFERENCES
ATTENDED

GAP Conference, Fields Institute, Toronto, 2011.
Talbot Workshop (Non-Abelian Hodge Theory), Draper, Utah, May 2011.
Symplectic Geometry, Noncommutative Geometry, and Physics, MSRI, Berkeley, May, 2010.
Mirror Symmetry, University of Miami, Coral Gables, January 2010.
Algebraic Structures in the Theory of Holomorphic Curves, MSRI, Berkeley, November 2009.
Symplectic/Contact Year Introductory Workshop, MSRI, Berkeley, August 2009.
Symplectic Geometry Graduate Summer Workshop, MSRI, Berkeley, August 2009.
Geometry Summer School, Instituto Superior Technico, Lisbon, June 2009.
Talbot Workshop (Fukaya Categories), Outer Banks, NC, March 2009.
Mirror Symmetry, University of Miami, Coral Gables, January 2009.
Symplectic Field Theory III, Humboldt University, Berlin, July, 2008.
The KK-Theory of Operator Algebras and Noncommutative Geometry, Vanderbilt University, Nashville, May, 2008.

TEACHING
EXPERIENCE

Instructor
Math 241 Calculus IV, UPenn, Summer 2010.
Math 420 Ordinary Differential Equations, UPenn, Summer 2009.
Math 240 Calculus III, UPenn, Summer 2008.
Teaching Assistant
Math 503 Abstract Algebra, Spring 2009.
Math 502 Abstract Algebra, Fall 2008.
Math 240 Calculus III, Fall/Spring 2007/8.
Selected as a "Master TA" (a leader of the annual TA training program at UPenn) 2009-2011.
Undergraduate Mentor
Paul Gallagher, Differential Geometry, 2010/11.
Zach Baran and Tony Van, Differential Topology, 2009/10.

COMPUTER SKILLS

C++, Haskell, Java, Maple, Mathematica, Python

REFERENCES

- 1 Jonathan Block (advisor), University of Pennsylvania, blockj@math.upenn.edu
- 2 Tony Pantev, University of Pennsylvania, tpantev@math.upenn.edu
- 3 Denis Auroux, Berkeley/MIT, auroux@math.berkeley.edu
- 4 Antonella Grassi (Teaching Reference), University of Pennsylvania, grassi@math.upenn.edu