

Curriculum Vitae

Kevin Kordek

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Personal

Citizenship: USA
Date of Birth: December 14, 1987

Current Position

Duke University
Graduate Student, Mathematics Department

Education

Old Dominion University 2009
Bachelor of Science in Applied Mathematics and Physics

Duke University 2011
Master of Arts in Pure Mathematics

Duke University 2015 (expected)
Ph.D. in Pure Mathematics

Awards and Honors

2009 Top Graduating Senior in Mathematics, Old Dominion University

Selected Talks (Including Upcoming)

1. *More Than Meets the i, j or k*
Old Dominion University, SIAM Math Awareness Conference, April 2009
2. *The Topology of the Full Path Space*
Duke University, Graduate Student Morse Theory Seminar, November 2011
3. *Theta Functions and Geometry*
Duke University, Graduate/Faculty Seminar, November 2012
4. *Mapping Class Groups of Orientable Surfaces*
Duke University, Math Slam!, April 2014
5. *Geography of Mapping Class Groups and Moduli Spaces*
Duke University, Graduate/Faculty Seminar, October 2014
6. *Torelli groups and Moduli Spaces of Curves and Abelian Varieties*
Duke University, Graduate Student Geometry Seminar, November 2014
7. *Theta Functions and the Structure of Torelli Groups in Low Genus*
Duke University, Geometry/Topology Seminar, December 2014
8. *Theta Functions and The Structure of Torelli Groups in Low Genus*
Duke University, Algebraic Geometry Seminar, February 2015

Conferences Attended

1. *SIAM Math Awareness*
April 17, 2009 Old Dominion University
2. *Workshop on Multiple Zeta Values, Modular Forms and Elliptic Motives*
May 2-6, 2011 University of Bristol
3. *Moduli Spaces of Riemann Surfaces*
July 3-23, 2011 Park City Mathematics Institute
4. *27th Annual Geometry Festival*
April 27 - 29, 2012, Duke University
5. *Recent Advances in Hodge Theory: Period Domains, Algebraic Cycles, and Arithmetic*
June 10-20, 2013 University of British Columbia
6. *Georgia Topology Conference*
May 21-25, 2014 University of Georgia

Publications

Theta functions and the structure of Torelli groups in low genus
(Ph.D. thesis, in preparation)

Teaching

As an instructor at Duke, my responsibilities included preparing daily lectures, writing and grading weekly quizzes, and writing and grading 3-4 major exams each semester.

Courses Taught at Duke

Math 112, Fall 2010 Instructor
Math 105L, Fall 2012 Instructor
Math 111L, Fall 2013 Instructor
Math 112L, Spring 2014 Instructor
Math 122L, Fall 2014 Instructor

I have also worked as a teaching assistant at Duke. My responsibilities included running lab sections and grading various lab assignments. The courses for which I was a T.A. at Duke are listed below.

Math 111L, Fall 2009 Teaching Assistant
Math 106L and 122L, Fall 2011 Teaching Assistant

Other Teaching Activities

- I have ample experience with one-on-one tutoring. I have worked in the math help room at Duke, and the math lab at Old Dominion. I have also worked as a private tutor.
- I received an offer to teach topology at Duke TIP (a program for gifted middle school and high school students) in Summer 2014. Unfortunately, I had to decline this due to scheduling conflicts.

Departmental Service

- Co-organizer, Duke University Graduate/Faculty Seminar (Spring 2013, Fall 2013)

References

- Richard Hain - Ph.D. thesis advisor and teaching reference
hain@math.duke.edu
- Lehnard Ng
ng@math.duke.edu
- Leslie Saper
saper@math.duke.edu
- Emily Braley - teaching reference
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