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Education

PhD Candidate, Pure Mathematics, University of Michigan, projected April 2012.

Masters of Science, Pure Mathematics, University of Michigan, April 2011.

Bachelor of Arts, Pure Mathematics, University of California, Berkeley, May 2005.

Areas of Interest

Hyperbolic 3-Manifolds

Spectral Geometry

Geometric Group Theory

Selected Papers and Presentations

Paper: *Bounds on λ_k for certain classes of hyperbolic manifolds*. In preparation.

Talk with the same title presented at: 2011 AMS Fall Eastern Sectional, Cornell University

Poster with same title presented at:

International Conference on Spectral Geometry, Dartmouth College, July 2010

Teichmüller Theory and its Interactions in Mathematics and Physics, Centre de Recerca Matemàtica, Bellaterra, Spain, June 2010

Professional Experience

Service and Leadership

Conference Co-Organizer. Annual Graduate Student Topology and Geometry Conference, University of Michigan, 160 participants, April 2010.

Conference Co-Organizer. UM/MSU Graduate Student Geometry/Topology Conference, University of Michigan, 20 participants, March 2009.

Seminar Co-Organizer. Student Geometry/Topology Seminar, University of Michigan, Fall 2008 – Spring 2009.

Seminar Organizer and Founder. Student Representation Theory Seminar, University of Michigan, Fall 2007 – Spring 2008.

Selected Awards

DAAD Study Scholarship, August 2005 – July 2006, Cologne, Germany.

Teaching

Instructor, Calculus I, Fall 2007, Winter 2008, Fall 2008, and Spring 2010, University of Michigan.

Mentor, Summers 2007-2009, Canada/USA Mathcamp. Taught intensive classes at the undergraduate level to talented high schools students. My classes have included: Point-set topology, Measure theory, Group theory and tilings, Hyperbolic Geometry, Metric spaces, and Proof techniques.

Teaching Assistant, Summer 2009, Michigan Math and Science Scholars Program, a two-week summer math program in Game Theory with 20 high school students.

TA, Calculus III, Winter 2009, University of Michigan.

TA, Linear Algebra II (in English and German), University of Cologne, Spring 2006.

TA, Abstract Algebra (in German), University of Cologne, Fall 2005.

Skills

Java, C++, MapReduce, R, Ruby

References

Mira Berstein, Canada/USA Mathcamp, mira@mathcamp.org.

Dick Canary, University of Michigan, canary@umich.edu.

Karen Rhea, University of Michigan, krhea@umich.edu.

Juan Souto, Thesis Advisor, University of Michigan, souto@umich.edu.