



Clinton Hines

Education

- 2008–2014 **Ph.D.**, *University of Kentucky*, Lexington, KY, Thesis Advisor Serge Ochanine.
Thesis Topic: *Spin Cobordism and Quasitoric Manifolds*, Degree Date: May 10, 2014
- 2004–2006 **Doctoral Student**, *University of Cincinnati*, Cincinnati, OH.
- 2003–2004 **M.S.**, *Eastern Kentucky University*, Richmond, KY, ISMAM Program Fellow.
- 1997–2002 **B.A.**, *Berea College*, Berea, KY.

Academic Positions

- 2015–Present **Visiting Lecturer**, *University of Kentucky*, Lexington, KY.
- 2014–2015 **Teaching Postdoc Scholar**, *University of Kentucky*, Lexington, KY.
- Fall 2012 **Visiting Instructor**, *Centre College*, Danville, KY.
- 2003–2004 **Graduate Fellow in ISMAM program**, *Eastern Kentucky Univ.*, Richmond, KY.
- 2008–2014 **Graduate TA Instructor**, *University of Kentucky*, Lexington, KY.
- 2004–2006 **Graduate Teaching Assistant**, *University of Cincinnati*, Cincinnati, OH.
- 2001–2002 **Teaching Assistant to Dr. Deborah Martin**, *Berea College*, Berea, KY.

Teaching

Summary **Educational Experience**, *Spring 2003 to present*.

I have over a dozen years of experience as an educator in a variety of classrooms including Middle School (see ISMAM below) as well as public and private institutions of higher education. I've been primary instructor for a wide variety of courses for these last six years at the University of Kentucky. I've grown accustomed to educating students from an array of backgrounds and diverse learning styles. I've written and administered exams and homework for each course listed above and have experience with online classroom management and homework systems including WeBWork, Webassign, Blackboard, Canvas, Turning Point and Moodle.

UK Faculty **Visiting Lecturer**, *University of Kentucky*, Lexington, KY.

I have been hired as full time faculty by the University of Kentucky to serve as Visiting Lecturer covering large lecture form sections of college algebra, Contemporary Mathematics and Finite Math. This Spring I have been selected as Course Coordinator for for MA 162: Finite Mathematics and Its Applications.

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Postdoc **Teaching Postdoc Scholar**, *University of Kentucky*, Lexington, KY.

Following my graduation in May, 2014, I was hired on at the University of Kentucky to teach and continue my development as an instructor. Dr. Serge Ochanine has volunteered as my Faculty Mentor. In particular, I've been selected to cover the "Biocalculus" sequence, Calculus for Life Sciences, I and II. This is a set of applied math classes geared towards biology and health majors and emphasises modelling and systems of ordinary differential equations.

Centre **Visiting Instructor**, *Centre College*, Danville, KY.

Faculty In the Fall of 2012, I was brought in as a Visiting Instructor at Centre College in Danville. I was selected to cover two sections of MAT 140: Calculus I with Review. In addition to my regular morning office hours, I coordinated evening study sessions with my undergraduate assistant. Also, I participated heavily in Centre's Developing New Faculty Program attending numerous training seminars and workshops, in addition to regular faculty meetings and gatherings.

ISMAM **Graduate Fellow Researcher and Instructor**, *EKU*, Richmond, KY.

program From July, 2003 through August, 2004 I participated as a researcher and instructor with Eastern KY University's ISMAM project (Inquiry-Based Science and Mathematics in Appalachian Middle Schools). I assisted in research in inquiry-based learning in STEM areas, and co-authored educational materials including a two week unit on geometry and a one week unit on probability and statistics for Middle School children. I then implemented and taught these and other lectures and activities at RockCastle County Middle School in Mount Vernon, KY.

MathExcel **Workshop Leader**, *University of Kentucky*, Lexington, KY.

Program In the Spring of 2009, I led twice weekly MathExcel workshops for Calculus II. The MathExcel program is designed to give capable students in Calculus the best chance to excel. As a workshop leader, I conducted intensive small-group problem-solving sessions within sections of about 25 students each. I was aided by two undergraduate assistants and a large amount of pizza.

Courses Taught as Primary Instructor

Taught at Centre College, Danville, KY

MAT 140 *Differential Calculus with Review*

The following taught at University of Kentucky, Lexington, KY

MA 214 *Differential Equations*

MA 213 *Calculus III, (Multivariable Calculus)*

MA 202 *Mathematical Reasoning for Elementary Teachers, II*

MA 201 *Mathematical Reasoning for Elementary Teachers, I*

MA 138 *Calculus for Life Sciences II*

MA 137 *Calculus for Life Sciences I*

MA 114 *Calculus II, Fall 2013*

MA 111 *Introduction to Contemporary Mathematics*

MA 109 *College Algebra, Spring 2012*

MA 109o *College Algebra Online*

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Presentations

- April 21, 2014 **Spin Cobordism and Wedge Quasitoric Manifolds**, *Defense*, University of Kentucky.
- Oct 31, 2013 **Combinatorial Formulae for the Chi-y Genus of Quasitoric Manifolds**, *Topology Seminar*, University of Kentucky.
- Feb 28, 2013 **Wedge Quasitoric Manifolds**, *Topology Seminar*, University of Kentucky.
- March 22, 2012 **The Ochanine Genus, Modular Forms, and the Brown-Kervaire Invariant**, *Topology Seminar*, University of Kentucky.
- Nov 9 and 30, 2011 **Toric Varieties and Quasitoric Manifolds in Cobordism**, *Topology Seminar*, University of Kentucky.
- Feb 17, 2011 **Unit Tangent Vector Fields on Spheres**, *Topology Seminar*, University of Kentucky.
- April 10, 2010 **On Multiplicative Genera Defined by Elliptic Integrals**, *Qualifying Exam*, University of Kentucky, Presented after translating the work from the original French.

Conferences Attended

- Oct, 2014 **Bluegrass Undergraduate Math Symposium**, *Centre College*, UK Faculty.
- April, 2014 **EKU Symposium in the Mathematical, Statistical, and Computer Sciences**, *Eastern Kentucky University*, UK Graduate Student.
- Sept, 2013 **Bluegrass Undergraduate Math Symposium**, *Centre College*, Graduate Student Panel Representing the University of Kentucky.
- May, 2013 **Midwest Topology Seminar**, *University of Kentucky*, UK Graduate Student.
- Sept, 2012 **Bluegrass Undergraduate Math Symposium**, *Centre College*, Centre Faculty.
- March, 2012 **Graduate Student Topology Conference**, *Indiana University*, UK Graduate Student.

References

- Doctoral Thesis Advisor **Serge Ochanine**, *Professor*, University of Kentucky, Lexington, KY.
Serge.Ochanine@uky.edu, +1 (859 257-8837)
- Teaching **Benjamin Braun**, *Associate Professor*, University of Kentucky, Lexington, KY.
benjamin.braun@uky.edu, +1 (859 257-6810)
- Teaching **Lesley Wiglesworth**, *Assistant Professor*, Centre College, Danville, KY.
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