# Scott Corry

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## Employment

- Associate Professor of Mathematics, Lawrence University, 2013-

- Assistant Professor of Mathematics, Lawrence University, 2007-13

## Education

- Ph.D. in mathematics, University of Pennsylvania, 2007
  Advisor: Florian Pop

- B.A. in mathematics, Reed College, 2001

## Honors, Awards, Short-term Positions

- Young Teacher Award, Lawrence University, 2011

- Visiting Fellow, Isaac Newton Institute for Math. Sciences, July-August 2009

- SAS Dissertation Fellow, University of Pennsylvania, 2006-2007

- Eugenio Calabi Scholar, UPenn Department of Mathematics, 2002-2007

- NSF Graduate Research Fellow, 2002-2006

- Dean's Scholar, University of Pennsylvania, 2005

- Good Teaching Awards, UPenn Dept. of Mathematics, Fall 2004, Spring 2005

- Phi Beta Kappa, Reed College, 2001

- Barry M. Goldwater Scholar, 2000

## Teaching

- Courses at Lawrence: Calculus I, II, III, Differential Equations with Linear Algebra, Foundations of Algebra, Foundations of Analysis, Linear Algebra, Topics in Geometry, Rings and Fields, Number Theory, Freshman Studies I, Environmental Studies Seminar – Community Read

- Tutorials at Lawrence: Elementary Number Theory, Commutative Algebra, Algebraic Curves, Putnam Problems, Linear Algebra, Quantum Computing

- Independent Studies at Lawrence: Area in Euclidean Geometry, Riemann Surfaces, Graphs and Riemann Surfaces, Differential Geometry, Group Theory, Combinatorial Game Theory, Group Theory and Physics, Primes of the Form $x^2 + ny^2$, Galois Theory, Symmetry in Quantum Mechanics, Symmetries of Finite Graphs, Analytic Number Theory, Algebraic Geometry

- Courses assisted at The University of Pennsylvania: Advanced Calculus I, Algebra II, Calculus II

## Publications

- *Harmonic Galois theory for finite graphs*, in "Galois-Teichmüller Theory and Arithmetic Geometry" (H. Nakamura, F. Pop, L. Schneps, A. Tamagawa eds.), Advanced Studies in Pure Mathematics, **63** (2012), 121-140.

- *Genus bounds for harmonic group actions on finite graphs*, Int. Math. Res. Notices, **2011**, No. 19 (2011), 4515-4533.

- *Galois covers of the open p-adic disc*, manuscripta math., **131**, No. 1-2 (2010), 43-61.

- *The pro-p Hom-form of the birational anabelian conjecture* (with F. Pop), J. Reine Angew. Math (Crelle's Journal), **628** (2009), 121-127.

- *A Hom-form of the pro-p birational anabelian conjecture*, extended abstract of talk at the Oberwolfach workshop "Arithmetic and Differential Galois Groups," published in Mathematisches Forschungsinstitut Oberwolfach Report No. 26/2007.

- *Arithmetic and geometry of the open p-adic disc*, Ph.D. dissertation, University of Pennsylvania, May 2007.

- *Hilbert functions of finite group orbits: abelian and metacyclic groups*, Senior thesis, Reed College, May 2001.

## Recent Talks

- *Harmonic Group Actions on Finite Graphs*, July 2013
  Generalizations of Chip-Firing and the Critical Group, American Institute of Mathematics

- *Graph-theoretic Hurwitz Groups*, March 2013
  Combinatorics Seminar, University of Minnesota

- *Finite Graphs and Riemann Surfaces: Hurwitz groups and graphs*, November 2012
  Colloquium, Reed College

- *Symmetry: an example from graph theory*, November 2011
  Science Hall Colloquium, Lawrence University

- *Harmonic Galois theory for finite graphs*, February 2011
  Galois Seminar, University of Pennsylvania

- *Galois branched covers of finite graphs*, October 2010
  Galois-theoretic Arithmetic Geometry, International Inst. for Advanced Study (Kyoto)

- *The pro-p Hom-form of the birational anabelian conjecture*, August 2009
  Anabelian Seminar, Isaac Newton Institute for Math. Sciences (Cambridge, UK)

- *Galois Theory and Rational Points on Curves*, April 2009
  Colloquium, University of Wisconsin – Oshkosh

- *Arithmetic and Geometry: $\frac{2}{7}$ of the liberal arts*, March 2008
  Mortar Board "First Chance / Last Chance Lecture", Lawrence University

- *A Hom-form of the pro-p birational anabelian conjecture*, May 2007
  Oberwolfach Workshop "Arithmetic and Differential Galois Groups"

- *Galois Theory: To Infinity and Beyond*, February 2007
  Earlham College

- *Galois Theory: To Infinity and Beyond*, January 2007
  Lawrence University

- *Galois covers of the open p-adic disc*, January 2007
  Special Session on Arithmetic Geometry at the AMS Joint Meetings, New Orleans

- *Galois covers of the open p-adic disc*, December 2006
  Galois Seminar, University of Pennsylvania (2 talks)

- *Arithmetic and geometry of the open p-adic disc*, April 2006
  Galois Workshop, University of Pennsylvania

- *What is Galois Theory?*, April 2006
  Colloquium, Lycoming College

## Conferences Attended

- Generalizations of Chip-Firing and the Critical Group, American Institute of Mathematics, July 2013

- Galois-theoretic Arithmetic Geometry, IIAS (Kyoto), October 2010

- Introductory Workshop: *Non-Abelian Fundamental Groups in Arithmetic Geometry*, Isaac Newton Institute for Math. Sciences (Cambridge, UK), July 2009

- Miniconference on Pro-$p$ Groups in Number Theory, University of Wisconsin – Madison, April 2008

- P-adic Methods and Rational Points, Renyi Institute (Budapest), May 2007

- Arithmetic and Differential Galois Groups, Oberwolfach, May 2007

- AMS Joint Meetings, New Orleans, January 2007

- Galois Workshop, University of Pennsylvania, April 2006

- Deligne's 61st Birthday Conference, Institute for Advanced Study, October 2005

- Arizona Winter School, University of New Mexico, March 2005
  Leila Schneps working group on multizeta values

## Professional Memberships

- American Mathematical Society, 2002-

## Professional Service

- Reviewer for Zentralblatt MATH, 2008-

- MAA Departmental Liaison, 2009-