

# Katrina Honigs

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Positions Held Fall 2019 - Paul Olum Postdoctoral Scholar University of Oregon  
Fall 2016 - Spring 2019 NSF Postdoctoral Fellow University of Utah  
Fall 2015 - Spring 2016 RTG Postdoctoral Fellow University of Utah

Education PhD 2015 UC Berkeley (Advisor: Martin Olsson)  
MASt 2009 University of Cambridge (Part III of the Mathematics Tripos)  
BA 2008 Grinnell College, (Majors: Mathematics and Physics)

Publications and Preprints *A transcendental topologically-nontrivial Brauer-Manin obstruction to weak approximation on a Calabi-Yau threefold,*  
Joint with S. Hashimoto, A. Lamarche and I. Vogt  
In preparation.  
*Rational points and derived equivalence,*  
Joint with N. Addington, B. Antieau and S. Frei.  
Submitted. arXiv:1906.02261  
*Fourier–Mukai partners of Enriques and bielliptic surfaces in positive characteristic,* Joint with M. Lieblich and S. Tirabassi.  
To appear in *Math. Res. Lett.*  
*Derived equivalences of canonical covers of hyperelliptic and Enriques surfaces in positive characteristic,* Joint with L. Lombardi and S. Tirabassi.  
*Math. Z.* **146** (2020) 727–749  
*Derived equivalence, Albanese varieties, and the zeta functions of 3-dimensional varieties,*  
Appendix joint with J. Achter, S. Casalaina-Martin and C. Vial.  
*Proc. Amer. Math. Soc.* **146** (2018) 1005–1013  
*Derived equivalent surfaces and abelian varieties, and their zeta functions,*  
*Proc. Amer. Math. Soc.* **143** (2015) 4161–4166  
*Missing edge coverings of bipartite graphs and the geometry of the Hausdorff metric,*  
*J. Geom.* **104** (2013) 107–125  
*Meeting Grothendieck, 2012,*  
*Notices* **63**:3 (2016)

Invited  
Lectures

Upcoming:

Rutgers Algebra Seminar, Oct. 14, 2020

Simon Fraser Number Theory and Algebraic Geometry Seminar, May 2020

Joint Mathematics Meetings, Denver, January 2020

University of Oregon Algebra Seminar, November 2019

AMS Western Sectional Meeting, UC Riverside, November 2019

Rice University Algebraic Geometry and Number Theory Seminar, Sept. 2019

Grinnell College, Alumni Scholar Program, February 2019

Geometry and Arithmetic of Surfaces Workshop, University of Wisconsin-Madison, February 2019

Colorado State University FRAGMENT Seminar, October 2018

AMS Western Sectional Meeting, SF State, October 2018

UIC Algebraic K-Theory Seminar, September 2018

AMS Western Sectional Meeting, PSU, April 2018

University of Oregon Algebra Seminar, February 2018

University of Utah Graduate Colloquium, February 2018

Stanford Algebraic Geometry Seminar, February 2018

Workshop on Topics in Algebraic Geometry, UNC, November 2017

Western Algebraic Geometry Symposium, UCLA, October 2017

University of Washington Algebraic Geometry Seminar, May 2017

Caltech Algebraic Geometry Seminar, April 2017

University of Cambridge Algebraic Geometry Seminar, October 2016

University of Bergen Algebra and Geometry Seminar, September 2016

AMS Western Sectional Meeting, University of Utah, April 2016

University of Utah Algebraic Geometry Seminar, January 2015

SF State Geometry Seminar, October 2016

AMS Central Sectional Meeting, MSU, March 2015

AMS Southeastern Sectional Meeting, UNC at Greensboro, November 2014

AMS Western Sectional Meeting, SFSU, October 2014

University of Utah Algebraic Geometry Seminar, October 2014

University of Michigan Algebraic Geometry Seminar, April 2014

Rice University Algebraic Geometry and Number Theory Seminar, March 2014

Berkeley Number Theory Seminar, March 2014

Stanford Student Algebraic Geometry Seminar, February 2014

Teaching

Instructor, University of Oregon:  
Math 341: Linear Algebra

Fall 2019, Fall 2020  
 Math 342: Linear Algebra, II  
 Winter 2020  
 Instructor, University of Utah:  
 Math 1310: Calculus I  
 Fall 2018  
 Math 6080: Topics in Contemporary Math  
 Course is part of MSMT program, a masters program for math teachers.  
 Taught and developed course curriculum.  
 Summer 2018  
 Math 5320: Introduction to Modern Algebra II  
 Spring 2018  
 Math 2250: Linear Algebra and Differential Equations  
 Fall 2015, Spring 2016  
 Teaching Assistant, IAS Program for Women and Mathematics:  
 “Algebraic Curves over Finite Fields” lectured by Wei Ho  
 May 2015  
 Graduate Student Instructor, UC Berkeley:  
 Math 54: Linear Algebra and Differential Equations  
 Fall 2014, Spring 2014, Spring 2012  
 Math 1B: Calculus II  
 Spring 2011

Service  
 Activities

Participant, Math teachers’ circle, Eugene, Oregon, Fall 2019  
 Committee Member, Oral exam committees for MSMT program, a masters  
 program for math teachers at the University of Utah, August 2018  
 Organizer, “The Arithmetic of Derived Categories” Workshop, CIRM Trento,  
 July 2017  
 Organizer, University of Utah Algebraic Geometry Seminar, Fall 2016 - Spring  
 2018  
 Volunteer, EDGE, Led workshop on learning LaTeX, Summer 2017  
 Participant, University of Utah AWM, 2015 - 2019  
 Organizer, Berkeley Student Algebraic Geometry Seminar, Fall 2013 - Spring  
 2014  
 Panelist, Nebraska Conference for Undergraduate Women in Mathematics, 2013  
 Participant and Coordinator, Berkeley Noetherian Ring, 2009 - 2015 and 2011  
 - 2013, resp.

Employment  
 Experience

Production Copyeditor, Mathematical Sciences Publishers, Berkeley, CA, 2012 -  
 2015