

September 20, 2017

Blake Alexander Farman

CONTACT INFORMATION

University of South Carolina
Department of Mathematics
LeConte College, 317N
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Columbia, SC 29208

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EDUCATION

Doctor of Philosophy, Mathematics August 2012 - Present
University of South Carolina, Columbia, SC
Dissertation Title: Geometry of derived categories on noncommutative projective schemes
Advisor: Matthew Ballard

Master of Science, Mathematics May 2011
University of Vermont, Burlington, VT
Major Concentration: Abstract Algebra
Minor Concentration: Algebraic Number Theory

Bachelor of Science, Computer Science May 2009
Rensselaer Polytechnic Institute, Troy, NY
Minors: Applied Mathematics and French

EMPLOYMENT

Graduate Teaching Assistant August 2012 - Present
University of South Carolina, Columbia, SC

- Teach undergraduate level mathematics courses while working towards a Ph.D in Mathematics.
- Help run a math department sponsored tutoring center for undergraduates.

Graduate Teaching Assistant August 2009 - May 2011
University of Vermont, Burlington, VT

- Taught undergraduate level introductory calculus and discrete mathematics courses while working towards an M.S. in Mathematics.
- Helped run a math department sponsored Help Session for undergraduates.

Undergraduate Research/Teaching Assistant May 2008 - May 2009
Rensselaer Polytechnic Institute, Troy, NY

- Assisted Professor Jeffrey C. Trinkle and his student, Steven Berard, with development of the Qt interface for the daVinci Code (DVC) physical simulator (<http://www.robotics.cs.rpi.edu/dvc>).
- Served as Teaching Assistant for Professor Trinkle's Robotics Course, which used DVC. Responsibilities included teaching students how to use the software and designing/grading homework assignments that used DVC.

PAPERS/PREPRINTS

with Matthew Ballard. *Kernels for Noncommutative Projective Schemes*. arXiv:1709.06470

CONFERENCES ATTENDED

<i>Palmetto Number Theory Series (PANTS) XXI</i> University of Tennessee, Knoxville, TN	September 2017
<i>Georgia Algebraic Geometry Symposium</i> University of Georgia, Athens, GA	March 3-5, 2017
<i>Workshop on Symplectic Varieties and Geometric Representation Theory</i> The University of North Carolina at Chapel Hill, Chapel Hill, NC	October 28-30, 2016
<i>UGA-SWAG: Summer Workshop in Algebraic Geometry</i> University of Georgia, Athens, GA	August 26-29, 2016
<i>Temple Graduate Student Conference in Algebra, Geometry, and Topology</i> Temple University, Philadelphia, PA	May 14-15, 2016
<i>Georgia Algebraic Geometry Symposium</i> Emory University, Atlanta, GA	October 2015
<i>AMS Summer Institute on Algebraic Geometry</i> University of Utah, Salt Lake City, UT	July 27 - 31, 2015
<i>Georgia Algebraic Geometry Symposium</i> University of Georgia, Athens, GA	October 2014
<i>Arizona Winter School</i> University of Arizona, Tucson, AZ	March 2014
<i>Palmetto Number Theory Series (PANTS) XXI</i> Clemson University, Clemson, SC	December 2013
<i>Palmetto Number Theory Series (PANTS) XX</i> Davidson College, Davidson, NC	September 2013
<i>Algebraic Geometry Northeastern Series (AGNES)</i> Yale University, New Haven, CT	April 2013
<i>AMS Spring Western Sectional Meeting</i> University of Colorado, Boulder, CO	April 2013
<i>Palmetto Number Theory Series (PANTS) XIX</i> University of South Carolina, Columbia, SC	December 2012
<i>Palmetto Number Theory Series (PANTS) XVIII</i> Wake Forest University, Winston-Salem, NC	September 2012

ORGANIZER

<i>Student Algebra/Number Theory Seminar</i> University of South Carolina	Summer 2016
<i>Student Algebraic Geometry, Commutative Algebra, and Number Theory Seminar</i> University of South Carolina	Summer 2015
<i>Student Algebraic Geometry Seminar</i> University of South Carolina	Spring 2015
<i>Student Algebraic Geometry Seminar</i> University of South Carolina	Fall 2014

PRESENTATIONS

<i>Noncommutative Projective Schemes</i> Temple Graduate Student Conference in Algebra, Geometry, and Topology Temple University	May 13, 2016
<i>Noncommutative Projective Schemes</i> Student Algebra/Number Theory Seminar University of South Carolina	May 14, 2016
<i>Fully Faithful Abstract Nonsense:</i> <i>Representable Functors and The Yoneda Embedding</i> Graduate Colloquium University of South Carolina	November 2015
<i>Fully Faithful Abstract Nonsense:</i> <i>Representable Functors and The Yoneda Embedding</i> Graduate Student Algebraic Geometry, Commutative Algebra, and Number Theory Seminar University of South Carolina	July 2015

TEACHING EXPERIENCE

University of South Carolina
Columbia, SC

Instructor of Record

<i>Math 116 - Brief Precalculus Mathematics</i>	Fall 2016
<i>Math 170 - Finite Mathematics</i>	Spring 2016
<i>Math 116 - Brief Precalculus Mathematics</i>	Fall 2015
<i>Math 111 - Basic College Mathematics</i>	Spring 2015
<i>Math 115 - Precalculus Mathematics</i>	Fall 2014
<i>Math 142 - Calculus II</i>	July 2014
<i>Math 170 - Finite Mathematics</i>	Spring 2014
<i>Math 116 - Brief Precalculus Mathematics</i>	Fall 2013
<i>Math 111 - Basic College Mathematics</i>	May - June 2013

Teaching Assistant

<i>Math 141 - Calculus I</i>	Spring 2013
<i>Math 142 - Calculus II</i>	Fall 2012

University of Vermont
Burlington, VT

Instructor of Record

Math 019 - Fundamentals of Calculus I
Math 017 - Applications of Finite Math
Math 017 - Applications of Finite Math
Math 017 - Applications of Finite Math

Fall 2010
Summer 2010
Spring 2010
Fall 2009

Rensselaer Polytechnic Institute
Troy, NY

Teaching Assistant

CSCI 4940 - Robotics II

Spring 2009

SERVICE

University of South Carolina High School Math Contest Proctor
University of South Carolina High School Math Contest Proctor
University of South Carolina High School Math Contest Proctor

January 2015
February 2014
January 2013

HONORS

Rensselaer Medalist
\$60,000 scholarship to Rensselaer Polytechnic Institute.

2004

NON-ACADEMIC EMPLOYMENT

Associate
Princeton Consultants, Inc, Princeton, NJ
Information Technology consultant.

August 2011 - August 2012

Mountain Ambassador
Killington, Ltd., Killington, VT

Winters 2004-2008

The Killington Ambassador Program is an on-slope volunteer program designed to improve the experience of guests by providing local knowledge, information, directions, safety tips, and just about any other help a guest might need.