

September 5, 2017

## Blake Alexander Farman

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### 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

*Kernels for Noncommutative Projective Schemes.* Expected Fall 2017  
with Matthew Ballard. In progress.

## CONFERENCES ATTENDED

<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 Area Number Theory Series (PANTS) XXI</i> Clemson University, Clemson, SC	December 2013
<i>Palmetto Area 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 Area Number Theory Series (PANTS) XIX</i> University of South Carolina, Columbia, SC	December 2012
<i>Palmetto Area 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.