

## Blake Alexander Farman

---

### CONTACT INFORMATION

University of South Carolina  
Department of Mathematics  
LeConte College, 317N  
1523 Greene St.  
Columbia, SC 29208

farmanb@math.sc.edu  
803.777.9707  
<http://people.math.sc.edu/farmanb>

### 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

*Internal Hom categories for noncommutative projective schemes.* Expected Aug 2016  
with Matthew Ballard. In progress.

## CONFERENCES ATTENDED

<i>Superschool on derived categories and D-branes</i> University of Alberta, Edmonton, Alberta, Canada	July 17-23, 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

*Noncommutative Projective Schemes* May 13, 2016  
Temple Graduate Student Conference in Algebra, Geometry, and Topology  
Temple University

*Noncommutative Projective Schemes* May 14, 2016  
Student Algebra/Number Theory Seminar  
University of South Carolina

*Fully Faithful Abstract Nonsense:* November 2015  
*Representable Functors and The Yoneda Embedding*  
Graduate Colloquium  
University of South Carolina

*Fully Faithful Abstract Nonsense:* July 2015  
*Representable Functors and The Yoneda Embedding*  
Graduate Student Algebraic Geometry, Commutative Algebra, and Number Theory Seminar  
University of South Carolina

## TEACHING EXPERIENCE

**University of South Carolina**  
Columbia, SC

### Instructor of Record

<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

<i>Math 019 - Fundamentals of Calculus I</i>	Fall 2010
<i>Math 017 - Applications of Finite Math</i>	Summer 2010
<i>Math 017 - Applications of Finite Math</i>	Spring 2010
<i>Math 017 - Applications of Finite Math</i>	Fall 2009

## SERVICE

<i>University of South Carolina High School Math Contest Proctor</i>	January 2015
<i>University of South Carolina High School Math Contest Proctor</i>	February 2014
<i>University of South Carolina High School Math Contest Proctor</i>	January 2013

## HONORS

*Rensselaer Medalist*

2004

\$60,000 scholarship to Rensselaer Polytechnic Institute.

## NON-ACADEMIC EMPLOYMENT

*Associate*

August 2011 - August 2012

Princeton Consultants, Inc, Princeton, NJ

Information Technology consultant.

*Mountain Ambassador*

Winters 2004-2008

Killington, Ltd., Killington, VT

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.