

BLAKE FARMAN

CURRICULUM VITAE

SCHOOL OF SCIENCES
UNIVERSITY OF LOUISIANA MONROE
FARMAN@ULM.EDU
HTTPS://ULM.EDU/~FARMAN

CONTACT INFORMATION

School of Sciences
University of Louisiana Monroe
700 University Ave.
Monroe, Louisiana 71209
+1 318 342 1851

CITIZENSHIP

Born October 11, 1987 in Burlington, Vermont, United States

RESEARCH INTERESTS

Algebra, (Noncommutative) Algebraic Geometry, Derived Categories, and Category Theory.

EDUCATION

Doctor of Philosophy, Mathematics May 12, 2018
University of South Carolina, Columbia, SC
Dissertation: Geometry of Derived Categories on Noncommutative Projective Schemes
Advisor: Matthew Ballard

Master of Science, Mathematics May 22, 2011
University of Vermont, Burlington, VT
Major Concentration: Abstract Algebra
Minor Concentration: Algebraic Number Theory

Bachelor of Science, Computer Science May 16, 2009
Rensselaer Polytechnic Institute, Troy, NY
Minors: Applied Mathematics and French

APPOINTMENTS

Capital One Endowed Professorship in Mathematics August 2020 - Present
University of Louisiana Monroe, Monroe, LA

Assistant Professor of Mathematics August 2020 - Present
University of Louisiana Monroe, Monroe, LA

Visiting Assistant Professor July 2018 - July 2020
Lafayette College, Easton, PA

Graduate Teaching Assistant August 2012 - May 2018
University of South Carolina, Columbia, SC

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

EMPLOYMENT

Associate

August 2011 - August 2012

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

PUBLICATIONS

(with Matthew Ballard) *Kernels for Noncommutative Projective Schemes*.
J. Noncommut. Geom. 15 (2021), 1129-1180. doi: 10.4171/JNCG/427

AWARDS AND HONORS

Louisiana Board of Regents Support Fund, Research Competitiveness Subprogram In Review
Fourier-Mukai Partners in Noncommutative Algebraic Geometry, \$142,041

Project NExT (New Experiences In Teaching) Fellow Red '22
Year long program providing guidance on building a successful academic career and positioning fellows to become leaders within the mathematical community

Dean's Dissertation Fellowship Nominee 2016
Nominated by the Mathematics department at the University of South Carolina for a \$25,000 fellowship.

Rensselaer Medalist \$60,000 2004
Scholarship to Rensselaer Polytechnic Institute.

MENTORING

Emerging Scholars Program (ULM), Sagar Bhetuwal January 2021 - April 2021
Undergraduate Research on Number Theory using the Lean Theorem Prover.

TEACHING EXPERIENCE

UNIVERSITY OF LOUISIANA MONROE

Instructor of Record

- Math 4007 - History of Mathematics (Fall 2022)
- Math 3086 - Modern Algebra (Fall 2021, Spring 2023)
- Math 3080 - Real Analysis (Spring 2022)
- Math 2040 - Foundations of Mathematics (Spring 2023)
- Math 2032 - Calculus III (Fall 2022)
- Math 2002 - Applied Linear Algebra (Spring 2021 Online, Fall 2021, Spring 2023)
- Math 1018 - Contemporary Mathematics (Fall 2021 x 2, Spring 2022 x 2)
- Math 1011 - College Algebra (Fall 2020 Online x 3, Spring 2021 Online x 2)
- Math 1007 - Contemporary Mathematics (Fall 2022 x 2, Spring 2023)

LAFAYETTE COLLEGE

Instructor of Record

- Math 272 - Linear Algebra with Applications (Spring 2020)
- Math 162 - Calculus II (Spring 2019 x 2, Fall 2019 x 2)

- Summer Program to Advance Leadership - Calculus I (Summer 2019)
- Math 161 - Calculus I (Fall 2018 x 2, Fall 2019, Spring 2020 x 2)

UNIVERSITY OF SOUTH CAROLINA

Instructor of Record

- Math 170 - Finite Mathematics (Spring 2014, Spring 2016)
- Math 142 - Calculus II (Summer 2014, Spring 2018)
- Math 122 - Calculus for Business Administration and Social Sciences (Spring 2017)
- Math 116 - Brief Precalculus Mathematics (Fall 2013 x 2, Fall 2015 x 2, Fall 2016 x 2)
- Math 115 - Precalculus Mathematics (Fall 2014)
- Math 111 - Basic College Mathematics (Summer 2013, Spring 2015, Fall 2017)

Teaching Assistant

- Math 142 - Calculus II (Fall 2012)
- Math 141 - Calculus I (Spring 2013)

UNIVERSITY OF VERMONT

Instructor of Record

- Math 019 - Fundamentals of Calculus I (Fall 2010)
- Math 017 - Applications of Finite Math (Fall 2009, Spring 2010, Summer 2010)

PRESENTATIONS

<i>Algebra, Geometry, and Categories, Oh My!</i> Department Seminar, Lafayette College, Easton, PA	March 11, 2020
<i>A Little Abstract Nonsense</i> Lafayette College, Easton, PA	May 21, 2018
<i>Abstract Nonsense: Grokking Category Theory</i> Wilkes University, Wilkes-Barre, PA	May 17, 2018
<i>Kernels for Noncommutative Projective Schemes</i> Graduate Colloquium University of South Carolina, Columbia, SC	November 28, 2017
<i>Kernels for Noncommutative Projective Schemes</i> Algebra Seminar University of New Brunswick, Fredericton, NB, CA	October 12, 2017
<i>Kernels for Noncommutative Projective Schemes</i> Algebra Seminar Temple University, Philadelphia, PA	October 9, 2017
<i>Kernels for Noncommutative Projective Schemes</i> Algebraic Geometry Seminar	August 28, 2017

University of South Carolina, Columbia, SC

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

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

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

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, Columbia, SC

CONFERENCES AND WORKSHOPS

Mathematical Association of America MathFest August 3 - 6, 2022
Philadelphia, PA

Mathematical Association of America Project NExT (New Experiences in Teaching) August 1 - 3, 2022
Philadelphia, PA

Series on Exploring Combinatorics and Number Theory (SECANT) IV (Online) January 15 - 16, 2022
Cedar Crest College, Allentown, PA

Derived, Birational, and Categorical Algebraic Geometry November 14 - 19, 2021
Invited Participant
Banff International Research Station, Banff, Alberta, CA

Series on Exploring Combinatorics and Number Theory (SECANT) III (Online) January 15 - 16, 2021
Cedar Crest College, Allentown, PA

Derived, Birational, and Categorical Algebraic Geometry (Online) November 2 - 6, 2020
Invited Participant
Banff International Research Station, Banff, Alberta, CA

Joint Mathematics Meetings January 15-17, 2020
Denver, CO

Series on Exploring Combinatorics and Number Theory (SECANT) II October 12-13, 2019
Cedar Crest College, Allentown, PA

Joint Mathematics Meetings January 16-19, 2019
Baltimore, MD

Series on Exploring Combinatorics and Number Theory (SECANT) November 17-18, 2018
Cedar Crest College, Allentown, PA

<i>Georgia Algebraic Geometry Symposium</i> Georgia Institute of Technology, Atlanta, GA	February 23-25, 2018
<i>Workshop on Topics in Algebraic Geometry</i> The University of North Carolina at Chapel Hill, Chapel Hill, NC	November 3-5, 2017
<i>Palmetto Number Theory Series (PANTS) XXVIII</i> University of Tennessee, Knoxville, TN	September 16-17, 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

PROFESSIONAL MEMBERSHIP

Mathematical Association of America, Member
American Mathematical Society, Member

SERVICE

<i>Math Program Representative at Browse on the Bayou</i> University of Louisiana Monroe	March 21, 2022
<i>Investiture Ceremony Marshal</i> University of Louisiana Monroe	October 1, 2021
<i>University Curriculum Committee Member</i> University of Louisiana Monroe	2021-2022
<i>Louisiana Math Forward Committee Member</i> University of Louisiana Monroe	2021
<i>Hiring Committee Member</i> University of Louisiana Monroe	Spring 2021
<i>High School Math Contest Proctor</i> University of South Carolina	2013-2015

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