Patrick K. McFaddin

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Education

Ph.D., Mathematics

May 2016

University of Georgia

Athens, GA

· Advisor: Daniel Krashen

· Dissertation: K-cohomology of generalized Severi-Brauer varieties

M.A., Mathematics

August 2011

University of Georgia

Athens, GA

· Advisor: Robert Varley

B.A., with Honors in Mathematics

May 2010

University of Southern California

Los Angeles, CA

Employment

Fordham University

Aug. 2019 - Present

Assistant Professor (tenure-track)

University of South Carolina

Aug. 2016 - June 2019

Visiting Research Assistant Professor

University of Georgia

June 2010- May 2016

Graduate Research and Teaching Assistant

Research Interests

Algebra and algebraic geometry: algebraic K-theory, derived categories, algebraic cycles, motives and motivic cohomology, central simple algebras, algebraic groups, homogeneous and toric varieties, and Galois cohomology.

Publications

- 1. (with M. Ballard, N. Chidambaram, D. Favero, and R. Vandermolen) Kernels for Grassmann flops. arXiv:1904.12195, to appear in *Journal de Mathématiques Pures et Appliquées*.
- 2. (with M. Ballard and A. Duncan) Derived categories of centrally-symmetric smooth toric Fano varieties. arXiv:1812.09392, to appear in *Mathematische Nachrichten*.
- 3. (with M. Ballard and A. Duncan) On derived categories of arithmetic toric varieties. *Ann. K-Theory* 4 (2019), no. 2, 211-242.

- 4. Zero-cycles with coefficients for the second generalized symplectic involution variety of an algebra of degree 4, J. Pure Appl. Algebra, 223 (2019), no. 7, 2822-2830.
- 5. (with M. Ballard and A. Duncan) The toric Frobenius morphism and a conjecture of Orlov, Eur. J. Math. 5 (2019), no. 3, 640-645.
- 6. The group of K_1 -zero-cycles on the second generalized Severi-Brauer variety of an algebra of index 4. J. Algebra 479 (2017), 192-202.
- 7. (with V. Alexeev, et al.) Extended Torelli map to the Igusa blowup in genus 6, 7, and 8. Exp. Math. 21 (2012), no. 2, 193-203.

Submitted articles and preprints

- 8. (with M. Ballard, A. Duncan, A. Lamarche) Separable algebras and coflasque resolutions. arXiv:2006.06876, 2020, submitted.
- 9. (with M. Ballard, A. Duncan, A. Lamarche) Consequences of the existence of exceptional collections in arithmetic and rationality. arXiv:2009.10175, 2020.

Physics and Astronomy Research

- 10. (with E. J. Rhodes, et al.) Temporal changes in the frequencies and widths of the solar p-mode oscillations. Proceedings of SOHO 24/GONG 2010, pp. 134-138, 2011.
- 11. (with E. J. Rhodes, et al.) Temporal changes in the frequencies of the solar p-mode oscillations during solar cycle 23. Proceedings of the IAU, Vol. 6, Symposium S273, pp. 389-393, 2011.

Awards

Fordham A&S Deans' Challenge Grant (Award: \$10,000)

Fall 2020

A Hybrid-Flipped Approach to Math Instruction, on behalf of Fordham Math

AMS-Simons Travel Grant (Award: \$4,000)

July 2018–June 2021

American Mathematical Society and the Simons Foundation

Great Lakes National Scholarship

Aug. 2015

Great Lakes Educational Loan Services

Outstanding Teaching Assistant

March 2015

University of Georgia

VIGRE Graduate Fellowship

Aug. 2011–July 2012

National Science Foundation

Selected Talks

Derived categories and rationality of twisted forms of toric varieties

Jan. 2021

JMM Special Session on Galois Cohomology and Arithmetic Geometry

Algebraic groups, torsors, and twisted forms

Jan. 2020

Lincoln Center Math Seminar, Fordham University

Twisted forms of toric varieties, their derived categories, and rationality No

Brauer Groups, Derived Categories and Birational Geometry, BIRS

Nov. 2019

Arithmetic and geometry of algebraic cycles Lincoln Center Math Seminar, Fordham University	Oct. 2019
Resolutions of tori and derived categories of toric varieties Emerging Research in Alg. Groups, Motives, and K-Theory, St. Petersburg, Russia	Sept. 2019
Toric varieties and their derived categories Mathematics Department Colloquium, Georgia Southern University	Feb. 2019
Geometric study of subfields of some non-commutative algebras Carolina Math Seminar, University of South Carolina	Nov. 2018
Algebraic cycles on homogeneous varieties Algebra, Geometry, and Number Theory Seminar, Tufts University	Oct. 2018
Galois descent for exceptional collections on toric varieties Algebra Seminar, University of Tennessee, Knoxville	Sept. 2018
Exceptional collections on some arithmetic toric varieties K-theory Conference Workshop, Universidad de Buenos Aires	July 2018
Derived categories of arithmetic toric varieties The 13 th Brauer Group Conference, Pingree Park, CO	June 2018
Groups of loops: they're fundamental! PME and Gamecock Math Club, University of South Carolina	Feb. 2018
Exceptional collections on toric varieties Algebraic Geometry Seminar, University of South Carolina	Nov. 2017
Lectures on non-commutative motives K-theory and related fields trimester program, Hausdorff Institute	Iay-June 2017
Chow groups with coefficients for some twisted homogeneous varieties Algebraic Geometry Seminar, Courant Institute of Mathematical Sciences	March 2017
K_1 -zero-cycles for some homogeneous varieties of type A_n and C_n Algebra Seminar, University of Alberta	March 2017
Zero-cycles with coefficients for some twisted homogeneous varieties Georgia Algebraic Geometry Symposium, University of Georgia	March 2017
K_1 -zero-cycles on twisted Grassmannians Topological Approaches to Arithmetic and Algebraic Geometry, University of Georgi	Sept. 2016
Chow groups with coefficients and generalized Severi-Brauer varieties Algebra and Number Theory Seminar, Emory University	Feb. 2016

Teaching and Training

Fordham University

 $Instructor\ of\ Record$

· Math 3005–Abstract Algebra	Spring 2021
\cdot Math 2004–Multivariable Calculus I (2 sections)	Fall 2020
· Math 3002–Differential Equations	Fall 2020
· Math 1203–Applied Calculus	Spring 2020
· Math 1205–Applied Statistics	Spring 2020

Recitation Instructor Math 2005—Multivariable Calculus II Spring 2021 University of South Carolina Instructor of Record Math 599—Abstract Algebra and Music Math 544—Linear Algebra Math 747—Algebraic Geometry: Schemes Math 747—Algebraic Geometry: Schemes Math 242—Elementary Differential Equations (2 sections) Fall 2016 University of Georgia Instructor of Record Math 2260—Calculus II for Science and Engineering Math 1113—Pre-Calculus Math 1113—Pre-Calculus Math 1113—Pre-Calculus Math 1250—Calculus I for Science and Engineering Math 1113—Pre-Calculus Math 12015 Math 2200—Analytic Geometry and Calculus Recitation Instructor Math 2200—Analytic Geometry and Calculus Fall 2010 Mental Health and International Students International Accelerator Program, University of South Carolina FLIP (Focus on Learning, Innovation and Pedagogy) Participant Center for Teaching Excellence, University of South Carolina Observer of first-time graduate instructors University of Georgia, supervised by Lisa Townsley UGA graduate student teacher training Courses with Robert Rumley, Jon Hanke, Matt Mastin, and Lisa Townsley	· Math 1100–Finite Mathematics	Fall 2019
University of South Carolina Instructor of Record • Math 599-Abstract Algebra and Music • Math 544-Linear Algebra • Math 142-Calculus I (2 sections) • Math 747-Algebraic Geometry: Schemes • Math 242-Elementary Differential Equations (2 sections) University of Georgia Instructor of Record • Math 113-Pre-Calculus II for Science and Engineering • Math 113-Pre-Calculus I for Science and Engineering • Math 1113-Pre-Calculus • Fall 2015 • Math 1113-Pre-Calculus • Math 1113-Pre-Calculus • Math 1113-Pre-Calculus • Fall 2010 Mental Health and International Students International Accelerator Program, University of South Carolina FLIP (Focus on Learning, Innovation and Pedagogy) Participant Center for Teaching Excellence, University of South Carolina Observer of first-time graduate instructors University of Georgia, supervised by Lisa Townsley UGA graduate student teacher training	· Math 1108–Math for Business: Finite	Fall 2019
University of South Carolina Instructor of Record Math 599-Abstract Algebra and Music Math 544-Linear Algebra Math 142-Calculus I (2 sections) Math 747-Algebraic Geometry: Schemes Math 242-Elementary Differential Equations (2 sections) Instructor of Record Math 2260-Calculus II for Science and Engineering Math 1113-Pre-Calculus Mecitation Instructor Math 2200-Analytic Geometry and Calculus Mental Health and International Students International Accelerator Program, University of South Carolina FLIP (Focus on Learning, Innovation and Pedagogy) Participant Center for Teaching Excellence, University of South Carolina Observer of first-time graduate instructors University of Georgia, supervised by Lisa Townsley UGA graduate student teacher training	Recitation Instructor	
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 Math 2200–Analytic Geometry and Calculus	· Math 1113–Pre-Calculus	Fall 2013
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International Accelerator Program, University of South Carolina FLIP (Focus on Learning, Innovation and Pedagogy) Participant Center for Teaching Excellence, University of South Carolina Observer of first-time graduate instructors University of Georgia, supervised by Lisa Townsley UGA graduate student teacher training 2010- 2014		Fall 2010
Center for Teaching Excellence, University of South Carolina Observer of first-time graduate instructors University of Georgia, supervised by Lisa Townsley UGA graduate student teacher training 2010- 2014		Nov. 2018
University of Georgia, supervised by Lisa Townsley UGA graduate student teacher training 2010- 2014	3	Fall 2017
		Spring 2015
		2010- 2014

Professional Activities

AMS-SMF-EMS Special Session on Derived Cat. and Rationality Co-organizer with M. Ballard and E. Macrì; Grenoble, France	July 2021
Core Cirriculum Committee Fordham University	Nov. 2020–Present
MoMath Math Gym Host National Museum of Mathematics, New York, NY	May 2020–Present
Faculty Advisor for Math-CISC Major Fordham University	Fall 2019–Present
Career Day Volunteer The Equity Project Charter School	Jan. 2020

New Beginnings Life Skills Program Volunteer South Carolina Department of Juvenile Justice	Fall 2018–Summer 2019
Magellan Explorer Project Advisor for Danielle Wood, University of South Carolina	Spring 2017–Spring 2018
Top Scholar Review Committee Member and Interviewer University of South Carolina	Fall 2017–Spring 2018
Motives at South Carolina Seminar Organizer	Spring 2018
Comprehensive Exam Committee Member University of South Carolina	Spring 2017–Fall 2018
Journal Referee · Pacific Journal of Mathematics · Journal of the European Mathematical Society · Épijournal de Géométrie Algébrique	2017–Present
South Carolina 4 Square Club (SC4SC) Club Advisor	Fall 2017–Spring 2019
USC Graduate Student Seminar Job Market Panelist	April 2019 Sept. 2017
UGA conference on algebraic and analytic aspects of quadratic Co-organizer with D. Krashen, P. Clark, and K. Thompson	c forms July 2017
University of South Carolina High School Math Competition Volunteer Judge and Proctor	Feb. 2017 Feb. 2018
UGA Graduate Student Bootcamp Job Market Panelist/Speaker on "How to give a good math talk"	June 2016
University of Georgia Math Camp Graduate Instructor	June 2016 July 2014
Project REFOCUS 21st Century Skills Program Volunteer	Spring 2016 Fall 2015
University of Georgia High School Math Tournament $Volunteer$	Nov. 2014 Nov. 2013
A Place Called Home Non-Profit Youth Center Volunteer Tutor, K-12, all subjects	Spring 2008

 ${\bf Member\ of\ the\ American\ Mathematical\ Society}$

Skills

Technology

Self-instructed coding in Python, HTML, website building, Mathematica, Sage, Git, \LaTeX MyMathLab, WebAssign, WebWork, BlackBoard, experience with Windows, Mac, Linux (via Ubuntu) operating systems.

Language

- \cdot French, limited working proficiency
- · Spanish, elementary proficiency

Conferences and Workshops Attended

Quadratic forms, linear algebraic groups and beyond Organizers: P. Gille, Z. Reichstein, K. Zainoulline	May 2020-present
Joint Mathematics Meetings Washington, D.C.	Jan. 2021
Derived categories and (non)commutative algebraic geometry Canadian Mathematical Society Winter Meeting	Dec. 2020
Birational, categorical, and derived algebraic geometry Banff International Research Station, Banff, AB, Canada	Nov. 2020
Madison Moduli Weekend University of Wisconsin, Madison	Sept. 2020
Workshop on ∞ -categories and applications Max Planck Institute for Mathematics	Aug. 2020
Online Inquiry Based Learning Mathematical Association of America	July 2020
Electronic Algebraic K-Theory Seminar Organizers: B. Antieau, E. Elmanto, A. Mathew, M. Yakerson	June 2020
Teaching as a legitimate application of college mathematics META Math Webinar, Mathematical Association of America	May 2020
Brauer Groups, Derived Categories and Birational Geometry Banff International Research Station, Banff, AB, Canada	Nov. 2019
Emerging Research in Algebraic Groups, Motives, and K-Theory Euler International Mathematical Institute, St. Petersburg, Russia	Sept. 2019
Rationality problems in algebraic geometry American Institute of Mathematics, San Jose, CA	July 2019
Derived algebraic geometry and its applications Mathematical Sciences Research Institute, Berkeley, CA	March 2019
$ \begin{array}{c} \textbf{Joint Mathematics Meetings} \\ Baltimore, \ MD \end{array} $	Jan. 2019
Carolina Math Seminar University of South Carolina	Nov. 2018

K-theory Conference Workshop (ICM Satellite) Universidad de Buenos Aires, Argentina	July 2018
K-theory Conference School (ICM Satellite) Universidad Nacional de La Plata, Argentina	July 2018
The 13 th Brauer Group Conference Colorado State Mountain Campus, Pingree Park, CO	June 2018
Discover USC Mentor for Danielle Wood, University of South Carolina	April 2018
A Day of Algebraic Geometry in Savannah Georgia Southern University	March 2018
Georgia Algebraic Geometry Symposium Georgia Institute of Technology	Feb. 2018
Joint Mathematics Meetings San Diego, CA	Jan. 2018
Stacks Project Workshop University of Michigan	July-Aug. 2017
CAAATQuaFs (Conference on Quadratic Forms) University of Georgia	July 2017
K-theory and Related Fields Trimester Program Hausdorff Research Institute for Mathematics	May-June 2017
Georgia Algebraic Geometry Symposium University of Georgia	March 2017
Lectures in Arithmetic Geometry at Rice Rice University	Feb. 2017
Topological Approaches to Arithmetic and Algebraic Geometry University of Georgia	Sept. 2016
Arithmetic Algebraic Geometry Courant Institute of Mathematical Sciences	Aug. 2016
Joint Mathematics Meetings Seattle, WA	Jan. 2016
Georgia Algebraic Geometry Symposium Emory University	Oct. 2015
Local-Global Principles and Their Obstructions University of Pennsylvania	Oct. 2015
Grad Student Bootcamp for the Alg. Geom. Research Institute University of Utah	July 2015
The 12 th Brauer Group Conference Colorado State Mountain Campus, Pingree Park, CO	June 2015
Arizona Winter School: Arithmetic and Higher-Dimensional Varieties $University\ of\ Arizona$	March 2015
Georgia Algebraic Geometry Symposium University of Georgia	Oct. 2014
Representation Theory and K-Theory University of Southern California	May 2014

Southeastern Lie Theory Workshop University of Georgia	May 2014
Georgia Algebraic Geometry Symposium University of Georgia	Oct. 2013
Torsors, Nonassociative Algebras, and Cohomological Invariants $Fields\ Institute$	June 2013
Homotopical Methods in Algebraic Geometry University of Southern California	May 2013
Workshop on Torsors, Motives, and Cohomological Invariants Fields Institute	May 2013
Oberwolfach Seminar on Algebraic Groups and Patching Mathematisches Forschungsinstitut Oberwolfach	Oct. 2012
Georgia Algebraic Geometry Symposium University of Georgia	May 2012
VIGRE Summer School Program in Algebraic Geometry University of Georgia	May 2012
Arizona Winter School: Ramification and Geometry University of Arizona	March 2012
Algebraic Geometry Northeastern Series Workshop Stony Brook University	Oct. 2011
A Celebration of Algebraic Geometry Harvard University	Aug. 2011
K-Theory and Motives University of California, Los Angeles	March 2011
Compact Moduli and Vector Bundles University of Georgia	May 2010