

# Patrick K. McFaddin

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Department of Mathematics  
Fordham University

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## Education

### Ph.D., Mathematics

*University of Georgia*

May 2016  
Athens, GA

- Advisor: Daniel Krashen
- Dissertation:  $K$ -cohomology of generalized Severi-Brauer varieties

### M.A., Mathematics

*University of Georgia*

August 2011  
Athens, GA

- Advisor: Robert Varley

### B.A., with Honors in Mathematics

*University of Southern California*

May 2010  
Los Angeles, CA

## Employment

### Fordham University

*Assistant Professor (tenure-track)*

Aug. 2019 - Present

### University of South Carolina

*Visiting Research Assistant Professor*

Aug. 2016 - June 2019

### University of Georgia

*Graduate Research and Teaching Assistant*

June 2010- May 2016

## 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, Galois cohomology, and categorical approaches to metric and geometric topology.

## Publications

1. (with M. R. Ballard, A. Duncan, and A. Lamarche) Separable algebras and coflasque resolutions. *Adv. Math.* 444 (2024), Paper No. 109596.
2. (with L. Ji, S. Li, D. Moore, and M. Stevenson) Weil restriction of schemes and beyond. In P. Belmans, W. Ho, & A. De Jong (Eds.), *Stacks Project Expository Collection* (London Mathematical Society Lecture Notes Series, pp. 194-221, 2022). Cambridge: Cambridge University Press.

Last updated November 14, 2024

3. A.T.V.'s for (geometric) off-roading: a gentle introduction to arithmetic toric varieties. *Notices Amer. Math. Soc.* 69 (2022), no. 7, 1113–1125.
4. (with M. R. Ballard and A. Duncan) Derived categories of centrally-symmetric smooth toric Fano varieties. *Math. Nachr.* 295 (2022), no. 2, 218–241.
5. (with M. R. Ballard, N. K. Chidambaram, D. Favero, and R. R. Vandermolen) Kernels for Grassmann flops. *J. Math. Pures Appl.* (9) 147 (2021), 29–59.
6. (with M. R. Ballard and A. Duncan) On derived categories of arithmetic toric varieties. *Ann. K-Theory* 4 (2019), no. 2, 211–242.
7. 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.
8. (with M. R. Ballard and A. Duncan) The toric Frobenius morphism and a conjecture of Orlov, *Eur. J. Math.* 5 (2019), no. 3, 640–645.
9. 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.
10. (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

11. (with M. R. Ballard, A. Duncan, and A. Lamarche) Consequences of the existence of exceptional collections in arithmetic and rationality. arXiv:2009.10175, submitted 2023.
12. (with T. Needham) Interleaving distances, monoidal actions and 2-categories. arXiv:2311.11936, submitted 2023.
13. (with N. A. Castro and J. Joseph) Relative group trisections. arXiv:2406.14530, submitted 2024.

#### Physics and Astronomy Research

14. (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.
15. (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

|  |                         |
|--|-------------------------|
| <b>Faculty Research Grant (Award: \$5,500)</b><br><i>Fordham University</i>  | 2023-2024               |
| <b>Academic Year Faculty Fellowship</b><br><i>Fordham University</i>   | Spring 2023             |
| <b>PIC Math Program (Award: \$6,000)</b><br><i>Mathematical Association of America</i>   | Summer 2021-Summer 2022 |
| <b>Fordham A&amp;S Deans' Challenge Grant (Award: \$9,500)</b><br><i>Enhancing the Flipped-Hybrid Approach, Grant Leader: Melkana Brakalova</i>        | Spring 2021             |
| <b>Fordham A&amp;S Deans' Challenge Grant (Award: \$10,000)</b><br><i>Flipped-Hybrid Approach to Math Instruction, Grant Leader: Melkana Brakalova</i> | Fall 2020               |

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| <b>AMS–Simons Travel Grant (Award: \$4,000)</b><br><i>American Mathematical Society and the Simons Foundation</i> | July 2018–June 2021 |
| <b>Great Lakes National Scholarship</b><br><i>Great Lakes Educational Loan Services</i>                           | Aug. 2015           |
| <b>Outstanding Teaching Assistant</b><br><i>University of Georgia</i>   | March 2015          |
| <b>VIGRE Graduate Fellowship</b><br><i>National Science Foundation</i>  | Aug. 2011–July 2012 |

## Selected Talks

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| <b>Categorical approaches to interleaving distance</b><br><i>Algebra Seminar, Fordham University</i>   | Nov. 2024  |
| <b>Coflasque resolutions, torsors, and rationality</b><br><i>AMS Central Sectional Meeting, University of Wisconsin, Milwaukee</i>                             | April 2024 |
| <b>Galois cohomology and limitations of the derived category</b><br><i>AGNT Seminar, Rice University</i>   | April 2024 |
| <b>Fundamentals of groups of loops</b><br><i>Undergraduate Colloquium, Rice University</i>   | April 2024 |
| <b>(Co)flasque resolutions and Brauer indistinguishability</b><br><i>AMS Southeastern Sectional Meeting, Florida State University</i>                          | March 2024 |
| <b>Analogues of simplicial/singular homology for schemes</b><br><i>Algebra Seminar, Fordham University</i>   | Feb. 2024  |
| <b>Tori, toric varieties, and <math>K</math>-theory</b><br><i>Algebra Seminar, Fordham University</i>  | Oct. 2023  |
| <b>Derived categories and rationality of twisted forms</b><br><i>Derived, Birational, and Categorical Algebraic Geometry, BIRS</i>                             | Nov. 2021  |
| <b>Ciphers, cryptography, and modular arithmetic</b><br><i>Mobile Math Circle, University of South Alabama</i>   | March 2021 |
| <b>Separable algebras and rationality of arithmetic toric varieties</b><br><i>Algebra Seminar, Rutgers University</i>  | Feb. 2021  |
| <b>Derived categories and rationality of twisted forms of toric varieties</b><br><i>JMM Special Session on Galois Cohomology and Arithmetic Geometry</i>       | Jan. 2021  |
| <b>Algebraic groups, torsors, and twisted forms</b><br><i>Lincoln Center Math Seminar, Fordham University</i>  | Jan. 2020  |
| <b>Twisted forms of toric varieties, their derived categories, and rationality</b><br><i>Brauer Groups, Derived Categories and Birational Geometry, BIRS</i>   | Nov. 2019  |
| <b>Arithmetic and geometry of algebraic cycles</b><br><i>Lincoln Center Math Seminar, Fordham University</i>   | Oct. 2019  |
| <b>Resolutions of tori and derived categories of toric varieties</b><br><i>Emerging Research in Alg. Groups, Motives, and K-Theory, St. Petersburg, Russia</i> | Sept. 2019 |

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| <b>Toric varieties and their derived categories</b><br><i>Mathematics Department Colloquium, Georgia Southern University</i>                                      | Feb. 2019     |
| <b>Geometric study of subfields of some non-commutative algebras</b><br><i>Carolina Math Seminar, University of South Carolina</i>                                | Nov. 2018     |
| <b>Algebraic cycles on homogeneous varieties</b><br><i>Algebra, Geometry, and Number Theory Seminar, Tufts University</i>   | Oct. 2018     |
| <b>Galois descent for exceptional collections on toric varieties</b><br><i>Algebra Seminar, University of Tennessee, Knoxville</i>                                | Sept. 2018    |
| <b>Exceptional collections on some arithmetic toric varieties</b><br><i>K-theory Conference Workshop, Universidad de Buenos Aires</i>                             | July 2018     |
| <b>Derived categories of arithmetic toric varieties</b><br><i>The 13<sup>th</sup> Brauer Group Conference, Pingree Park, CO</i>                                   | June 2018     |
| <b>Introduction to Algebraic Cycles</b><br><i>Motives Seminar, University of South Carolina</i>   | Feb. 2018     |
| <b>Exceptional collections on toric varieties</b><br><i>Algebraic Geometry Seminar, University of South Carolina</i>  | Nov. 2017     |
| <b>Lectures on non-commutative motives</b><br><i>K-theory and related fields trimester program, Hausdorff Institute</i>   | May–June 2017 |
| <b>Chow groups with coefficients for some twisted homogeneous varieties</b><br><i>Algebraic Geometry Seminar, Courant Institute of Mathematical Sciences</i>      | March 2017    |
| <b><math>K_1</math>-zero-cycles for some homogeneous varieties of type <math>A_n</math> and <math>C_n</math></b><br><i>Algebra Seminar, University of Alberta</i> | March 2017    |
| <b>Zero-cycles with coefficients for some twisted homogeneous varieties</b><br><i>Georgia Algebraic Geometry Symposium, University of Georgia</i>                 | March 2017    |
| <b><math>K_1</math>-zero-cycles on twisted Grassmannians</b><br><i>Topological Approaches to Arithmetic and Algebraic Geometry, University of Georgia</i>         | Sept. 2016    |
| <b>Chow groups with coefficients and generalized Severi-Brauer varieties</b><br><i>Algebra and Number Theory Seminar, Emory University</i>                        | Feb. 2016     |

## Teaching and Training

### Fordham University

*Instructor of Record*

|   |             |
|---|-------------|
| · Math 1108–Math for Business: Finite       | Fall 2024   |
| · Math 1100–Finite Mathematics (VIA)        | Fall 2024   |
| · Math 1100–Finite Mathematics              | Fall 2024   |
| · Math 3005–Abstract Algebra                | Spring 2024 |
| · Math 1100–Finite Mathematics              | Spring 2024 |
| · Math 2006–Linear Algebra                  | Fall 2023   |
| · Math 1100–Finite Mathematics (2 sections) | Fall 2023   |
| · Math 1206–Calculus I                      | Summer 2022 |
| · Math 3005–Abstract Algebra                | Spring 2022 |

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| · Math 4002–Preparation for Industrial Careers in Math                       | Spring 2022 |
| · Math 1100–Finite Mathematics (2 sections)                                  | Fall 2021   |
| · Math 3002–Differential Equations   | Fall 2021   |
| · Math 3005–Abstract Algebra   | Summer 2021 |
| · Math 3005–Abstract Algebra   | Spring 2021 |
| · 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 |
| · Math 1100–Finite Mathematics (VIA)   | Fall 2019   |
| · Math 1108–Math for Business: Finite  | Fall 2019   |
| <i>Recitation Instructor</i>   |             |
| · Math 2005–Multivariable Calculus II  | Spring 2022 |
| · Math 2005–Multivariable Calculus II  | Spring 2021 |
| <b>University of South Carolina</b>  |             |
| <i>Instructor of Record</i>  |             |
| · Math 599–Abstract Algebra and Music  | Fall 2018   |
| · Math 544–Linear Algebra  | Spring 2018 |
| · Math 142–Calculus I (2 sections)   | Fall 2017   |
| · Math 747–Algebraic Geometry: Schemes                                       | Spring 2017 |
| · Math 242–Elementary Differential Equations (2 sections)                    | Fall 2016   |
| <b>University of Georgia</b>   |             |
| <i>Instructor of Record</i>  |             |
| · Math 2260–Calculus II for Science and Engineering                          | Fall 2015   |
| · Math 1113–Pre-Calculus   | Spring 2015 |
| · Math 2250–Calculus I for Science and Engineering                           | Spring 2014 |
| · Math 1113–Pre-Calculus   | Fall 2013   |
| <i>Recitation Instructor</i>   |             |
| · Math 2200–Analytic Geometry and Calculus                                   | Spring 2011 |
|  | Fall 2010   |
| <b>Instructor for Math Kangaroo Course Level 3-4</b>                         | Fall 2022   |
| <i>Math Kangaroo USA</i>   |             |
| <b>Instructor for independent tutorial course on ring theory</b>             | Summer 2021 |
| <i>Students: F. Azad, Z. Chen, Z. van Zant</i>                               |             |
| <b>Mental Health and International Students</b>                              | Nov. 2018   |
| <i>International Accelerator Program, University of South Carolina</i>       |             |
| <b>FLIP (Focus on Learning, Innovation and Pedagogy) Participant</b>         | Fall 2017   |
| <i>Center for Teaching Excellence, University of South Carolina</i>          |             |
| <b>Observer of first-time graduate instructors</b>                           | Spring 2015 |
| <i>University of Georgia, supervised by Lisa Townsley</i>                    |             |
| <b>UGA graduate student teacher training</b>                                 | 2010- 2014  |
| <i>Courses with Robert Rumley, Jon Hanke, Matt Mastin, and Lisa Townsley</i> |             |

## Professional Activities

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| <b>MoMath Math Gym Host</b><br><i>National Museum of Mathematics, New York, NY</i>   | May 2020–Present        |
| <b>Faculty Advisor for the 3-2 Combined Engineering Program</b><br><i>Fordham University</i>   | Fall 2024–Present       |
| <b>Faculty Advisor for Math-CISC Major</b><br><i>Fordham University</i>  | Fall 2019–Present       |
| <b>Member of the Special Projects Committee</b><br><i>National Association of Mathematicians</i>   | Fall 2022–Spring 2024   |
| <b>Core Curriculum Committee</b><br><i>Fordham University</i>  | Fall 2020–Spring 2023   |
| <b>Math Kangaroo State Directors Meeting</b><br><i>Math Kangaroo USA</i>   | Oct. 2022               |
| <b>Seminar on the Future of Jesuit Higher Education</b><br><i>Fordham University</i>   | Fall 2022               |
| <b>AMS-SMF-EMS Special Session on Derived Cat. and Rationality</b><br><i>Co-organizer with M. Ballard and E. Macrì; Grenoble, France</i>             | July 2022               |
| <b>Early-Career Faculty Panelist</b><br><i>New Faculty Orientation, Fordham University</i>   | Aug. 2021               |
| <b>Career Day Volunteer</b><br><i>The Equity Project Charter School</i>  | Jan. 2020               |
| <b>New Faculty Seminar on Mission</b><br><i>Fordham University</i>   | Fall 2019               |
| <b>New Beginnings Life Skills Program Volunteer</b><br><i>South Carolina Department of Juvenile Justice</i>  | Fall 2018–Summer 2019   |
| <b>Magellan Explorer Project Advisor</b><br><i>for Danielle Wood, University of South Carolina</i>   | Spring 2017–Spring 2018 |
| <b>Top Scholar Review Committee Member and Interviewer</b><br><i>University of South Carolina</i>  | Fall 2017–Spring 2018   |
| <b>Motives at South Carolina</b><br><i>Seminar Organizer</i>   | Spring 2018             |
| <b>Comprehensive Exam Committee Member</b><br><i>University of South Carolina</i>  | Spring 2017–Fall 2018   |
| <ul style="list-style-type: none"> <li>· Candace Bethea</li> <li>· Tracy Huggins</li> <li>· Alicia Lamarche</li> <li>· Robert Vandermolen</li> </ul> |                         |

**Journal Referee**

2017–Present

- *Épijournal de Géométrie Algébrique*
- *Journal of Algebra*
- *Journal of the European Mathematical Society*
- *Notices of the American Mathematical Society*
- *Pacific Journal of Mathematics*

**South Carolina 4 Square Club (SC4SC)**

Fall 2017–Spring 2019

*Club Advisor***USC Graduate Student Seminar**

April 2019

*Job Market Panelist*

Sept. 2017

**UGA conference on algebraic and analytic aspects of quadratic forms**

July 2017

*Co-organizer with D. Krashen, P. Clark, and K. Thompson***University of South Carolina High School Math Competition**

Feb. 2017

*Volunteer Judge and Proctor*

Feb. 2018

**UGA Graduate Student Bootcamp**

June 2016

*Job Market Panelist/Speaker on “How to give a good math talk”***University of Georgia Math Camp**

June 2016

*Graduate Instructor*

July 2014

**Project REFOCUS**

Spring 2016

*21st Century Skills Program Volunteer*

Fall 2015

**University of Georgia High School Math Tournament**

Nov. 2014

*Volunteer*

Nov. 2013

**A Place Called Home Non-Profit Youth Center**

Spring 2008

*Volunteer Tutor, K-12, all subjects***Member of the American Mathematical Society****Member of the National Association of Mathematicians****Skills****Technology**

Self-instructed coding in Python, HTML, website building, Mathematica, Sage, Git, L<sup>A</sup>T<sub>E</sub>X, MyMathLab, MyLab Math, WebAssign, WebWork, BlackBoard, experience with Windows, Mac, Linux (via Ubuntu) operating systems.

**Language**

- French, limited working proficiency
- Spanish, elementary proficiency

## Conferences and Workshops Attended

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| <b>Special Session on ramification in algebraic and arithmetic geometry</b><br><i>AMS Central Sectional Meeting, University of Wisconsin, Milwaukee</i> | April 2024         |
| <b>Special Session on algebraic groups and local-global principles</b><br><i>AMS Southeastern Sectional Meeting, Florida State University</i>           | March 2024         |
| <b>Syzygies and Mirror Symmetry</b><br><i>American Institute of Mathematics, Pasadena, CA</i>   | Sept. 2023         |
| <b>MAA MathFest</b><br><i>Philadelphia, PA</i>  | Aug. 2022          |
| <b>Derived, Birational, and Categorical Algebraic Geometry</b><br><i>Banff International Research Station, Banff, AB, Canada</i>                        | Nov. 2021          |
| <b>Undergraduate Faculty Program on Motivic Milnor Numbers</b><br><i>Park City Math Institute and Institute for Advanced Study</i>                      | Aug. 2021          |
| <b>Quadratic forms, linear algebraic groups and beyond</b><br><i>Organizers: P. Gille, Z. Reichstein, K. Zainoulline</i>                                | May 2020-July 2022 |
| <b>Algebraic groups and algebraic geometry</b><br><i>In honor of Zinovy Reichstein's 60th birthday</i>  | June 2021          |
| <b>PIC Math Faculty Workshop</b><br><i>Mathematical Association of America</i>  | June 2021          |
| <b>Algebra and Geometry of Homogeneous Spaces</b><br><i>Organizers: N. Karpenko, N. Lemire, K. Zaynullin</i>  | June 2021          |
| <b>Joint Mathematics Meetings</b><br><i>Washington, D.C.</i>  | Jan. 2021          |
| <b>Derived categories and (non)commutative algebraic geometry</b><br><i>Canadian Mathematical Society Winter Meeting</i>                                | Dec. 2020          |
| <b>Birational, categorical, and derived algebraic geometry</b><br><i>Banff International Research Station, Banff, AB, Canada</i>                        | Nov. 2020          |
| <b>Madison Moduli Weekend</b><br><i>University of Wisconsin, Madison</i>  | Sept. 2020         |
| <b>Workshop on <math>\infty</math>-categories and applications</b><br><i>Max Planck Institute for Mathematics</i>                                       | Aug. 2020          |
| <b>Online Inquiry Based Learning</b><br><i>Mathematical Association of America</i>  | July 2020          |
| <b>Electronic Algebraic K-Theory Seminar</b><br><i>Organizers: B. Antieau, E. Elmanto, A. Mathew, M. Yakerson</i>                                       | June 2020          |
| <b>Teaching as a legitimate application of college mathematics</b><br><i>META Math Webinar, Mathematical Association of America</i>                     | May 2020           |
| <b>Brauer Groups, Derived Categories and Birational Geometry</b><br><i>Banff International Research Station, Banff, AB, Canada</i>                      | Nov. 2019          |
| <b>Emerging Research in Algebraic Groups, Motives, and K-Theory</b><br><i>Euler International Mathematical Institute, St. Petersburg, Russia</i>        | Sept. 2019         |



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| <b>Rationality problems in algebraic geometry</b><br><i>American Institute of Mathematics, San Jose, CA</i>             | July 2019      |
| <b>Derived algebraic geometry and its applications</b><br><i>Mathematical Sciences Research Institute, Berkeley, CA</i> | March 2019     |
| <b>Joint Mathematics Meetings</b><br><i>Baltimore, MD</i>   | Jan. 2019      |
| <b>Carolina Math Seminar</b><br><i>University of South Carolina</i>   | Nov. 2018      |
| <b>K-theory Conference Workshop (ICM Satellite)</b><br><i>Universidad de Buenos Aires, Argentina</i>                    | July 2018      |
| <b>K-theory Conference School (ICM Satellite)</b><br><i>Universidad Nacional de La Plata, Argentina</i>                 | July 2018      |
| <b>The 13<sup>th</sup> Brauer Group Conference</b><br><i>Colorado State Mountain Campus, Pingree Park, CO</i>           | June 2018      |
| <b>Discover USC</b><br><i>Mentor for Danielle Wood, University of South Carolina</i>                                    | April 2018     |
| <b>A Day of Algebraic Geometry in Savannah</b><br><i>Georgia Southern University</i>                                    | March 2018     |
| <b>Georgia Algebraic Geometry Symposium</b><br><i>Georgia Institute of Technology</i>                                   | Feb. 2018      |
| <b>Joint Mathematics Meetings</b><br><i>San Diego, CA</i>   | Jan. 2018      |
| <b>Stacks Project Workshop</b><br><i>University of Michigan</i>   | July-Aug. 2017 |
| <b>CAAATQuaFs (Conference on Quadratic Forms)</b><br><i>University of Georgia</i>                                       | July 2017      |
| <b>K-theory and Related Fields Trimester Program</b><br><i>Hausdorff Research Institute for Mathematics</i>             | May-June 2017  |
| <b>Georgia Algebraic Geometry Symposium</b><br><i>University of Georgia</i>   | March 2017     |
| <b>Lectures in Arithmetic Geometry at Rice</b><br><i>Rice University</i>  | Feb. 2017      |
| <b>Topological Approaches to Arithmetic and Algebraic Geometry</b><br><i>University of Georgia</i>                      | Sept. 2016     |
| <b>Arithmetic Algebraic Geometry</b><br><i>Courant Institute of Mathematical Sciences</i>                               | Aug. 2016      |
| <b>Joint Mathematics Meetings</b><br><i>Seattle, WA</i>   | Jan. 2016      |
| <b>Georgia Algebraic Geometry Symposium</b><br><i>Emory University</i>  | Oct. 2015      |
| <b>Local-Global Principles and Their Obstructions</b><br><i>University of Pennsylvania</i>                              | Oct. 2015      |
| <b>Grad Student Bootcamp for the Alg. Geom. Research Institute</b><br><i>University of Utah</i>                         | July 2015      |

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| <b>The 12<sup>th</sup> Brauer Group Conference</b><br><i>Colorado State Mountain Campus, Pingree Park, CO</i>       | June 2015  |
| <b>Arizona Winter School: Arithmetic and Higher-Dimensional Varieties</b><br><i>University of Arizona</i>           | March 2015 |
| <b>Georgia Algebraic Geometry Symposium</b><br><i>University of Georgia</i>   | Oct. 2014  |
| <b>Representation Theory and <math>K</math>-Theory</b><br><i>University of Southern California</i>                  | May 2014   |
| <b>Southeastern Lie Theory Workshop</b><br><i>University of Georgia</i>   | May 2014   |
| <b>Georgia Algebraic Geometry Symposium</b><br><i>University of Georgia</i>   | Oct. 2013  |
| <b>Torsors, Nonassociative Algebras, and Cohomological Invariants</b><br><i>Fields Institute</i>                    | June 2013  |
| <b>Homotopical Methods in Algebraic Geometry</b><br><i>University of Southern California</i>                        | May 2013   |
| <b>Workshop on Torsors, Motives, and Cohomological Invariants</b><br><i>Fields Institute</i>                        | May 2013   |
| <b>Oberwolfach Seminar on Algebraic Groups and Patching</b><br><i>Mathematisches Forschungsinstitut Oberwolfach</i> | Oct. 2012  |
| <b>Georgia Algebraic Geometry Symposium</b><br><i>University of Georgia</i>   | May 2012   |
| <b>VIGRE Summer School Program in Algebraic Geometry</b><br><i>University of Georgia</i>                            | May 2012   |
| <b>Arizona Winter School: Ramification and Geometry</b><br><i>University of Arizona</i>                             | March 2012 |
| <b>Algebraic Geometry Northeastern Series Workshop</b><br><i>Stony Brook University</i>                             | Oct. 2011  |
| <b>A Celebration of Algebraic Geometry</b><br><i>Harvard University</i>   | Aug. 2011  |
| <b><math>K</math>-Theory and Motives</b><br><i>University of California, Los Angeles</i>                            | March 2011 |
| <b>Compact Moduli and Vector Bundles</b><br><i>University of Georgia</i>  | May 2010   |