
CONTACT INFORMATION	Department of Mathematics Emory University Atlanta, GA 30322	bullery@emory.edu http://math.emory.edu/~bullery
EMPLOYMENT	<p>Emory University Assistant professor, August 2020–Present</p> <p>Harvard University Benjamin Peirce Postdoctoral Fellow and NSF Postdoctoral Fellow, July 2016–June 2020 Mentor: Joe Harris</p> <p>University of Utah NSF Postdoctoral Fellow, July 2015–June 2016 Mentor: Aaron Bertram</p>	
EDUCATION	<p>University of Michigan - Ann Arbor Ph.D. in Mathematics, May 2015 Advisors: Robert Lazarsfeld, Karen Smith</p> <p>University of Chicago B.A. in Mathematics, June 2010</p>	
PAPERS	<ul style="list-style-type: none"> • <i>A Cayley-Bacharach theorem and plane configurations</i>, with J. Levinson. To appear in Proc. AMS. • <i>The gonality of complete intersection curves</i>, with J. Hotchkiss and C. Lau. <i>J. Algebra</i> (2020), 579–608. • <i>The degree of irrationality of hypersurfaces in various Fano varieties</i>, with D. Stapleton. <i>Manuscripta math.</i> (2019), 1432–1785. • <i>Measures of irrationality for hypersurfaces of large degree</i>, with F. Bastianelli, P. De Poi, L. Ein, and R. Lazarsfeld. <i>Compos. Math.</i> 153 (2017), no. 11, 2368–2393. • <i>On the normality of secant varieties</i>. <i>Adv. Math.</i> 288 (2016), 631–647. • <i>Designer ideals with high Castelnuovo-Mumford regularity</i>. <i>Math. Res. Lett.</i> 21 (2014), no. 5, 1215–1225. 	
FELLOWSHIPS & HONORS	<ul style="list-style-type: none"> • NSF Mathematical Sciences Postdoctoral Research Fellowship, 2015–2018 • Harvard Excellence in Teaching Award, 2018, 2019. • Outstanding Graduate Student Instructor Award, University of Michigan (University-wide competition, 20 awardees), March 2015. • American Mathematical Society Graduate Student Travel Grant, September 2014. • Rackham Conference Travel Grant, University of Michigan, November 2013. • NSF RTG fellowship, University of Michigan, Winter 2013, Fall 2013, Winter 2014, Winter 2015. • Honors in mathematics, University of Chicago, June 2010. 	
INVITED TALKS	<ul style="list-style-type: none"> • Joint Mathematics Meetings, Special Session; Online, April 2022. • Georgia Algebraic Geometry Symposium (GAGS); Emory University, April 2022. • Algebra Seminar; Auburn University, March 2022. • Algebraic Geometry Seminar; The Ohio State University, January 2022. • Algebra Seminar; Georgia Tech, November 2021. 	

- FRAGMENT seminar; University of Colorado at Boulder and Colorado State University, October 2021.
- Algebraic Geometry Seminar; University of Georgia, October 2021.
- Seminario nacional de geometría algebraica en línea, May 2021.
- AMS Fall Eastern Virtual Sectional Meeting, Special Session on Algebraic Singularities in Arbitrary Characteristic, October 2020.
- Fellowship of the Ring Commutative Algebra Seminar, hosted by MSRI, August 2020.
- Joint NU/UIC/UofC Algebra & Geometry Seminar, May 2020.
- Algebraic Geometry Mini-conference; MIT, April 2019.
- Algebra Seminar; University of Connecticut, April 2019.
- Mathematics Colloquium; Iowa State University, February 2019.
- Geometry and Physics Seminar; Boston University, February 2019.
- Geometry, Physics, and Representation Theory Seminar; Northeastern University, February 2019.
- Mathematics Colloquium; Rice University, January 2019.
- Algebraic Geometry Seminar; The Ohio State University, November 2018.
- Mathematics Colloquium; Iowa State University, October 2018.
- I 70 Algebraic Geometry Conference, University of Missouri - Saint Louis, October 2018.
- Geometry Seminar, Texas A&M University, October 2018.
- Algebraic Geometry Northeastern Series (AGNES); Brown University, September 2018.
- Texas Algebraic Geometry Symposium (TAGS); Texas A&M University, April 2018.
- Algebraic Geometry Seminar; University of California - San Diego, March 2018.
- Graduate Workshop in Algebraic Geometry for Women and Mathematicians of Minority Genders (GWAGWMMG); MIT and Harvard University, February 2018.
- Algebra Seminar; Rutgers University, December 2017.
- Workshop on Topics in Algebraic Geometry; UNC Chapel Hill, November 2017.
- Algebraic Geometry Seminar; Courant Institute, NYU, September 2017.
- The Prospects for Commutative Algebra; Osaka, Japan, July 2017.
- Algebraic Geometry Seminar; Brown University, April 2017.
- Spring Lecture Series; University of Arkansas, March 2017.
- Algebraic Geometry Seminar; Columbia University, February 2017.
- Geometry, Algebra, Singularities, and Combinatorics seminar; Northeastern University, November 2016.
- Western Algebraic Geometry Symposium (WAGS); Colorado State University, October 2016.
- Harvard/MIT Algebraic Geometry Seminar; Harvard University, September 2016.
- Higher Dimensional Algebraic Geometry Conference; University of Utah, July 2016.
- Upper Midwest Commutative Algebra Colloquium; University of Minnesota, April 2016.
- Algebraic Geometry Seminar; Princeton University, March 2016.
- Commutative Algebra Seminar; University of Utah, March 2016.
- Algebraic Geometry Seminar; University of Utah, March 2016.
- Joint Mathematics Meetings, Special Session on Commutative Algebra; Seattle, WA, January 2016.
- Joint Mathematics Meetings, Special Session on Tensor Decompositions and Secant Varieties; Seattle, WA, January 2016.
- Algebraic Geometry Seminar; University of Utah, September 2015.
- Algebraic Geometry Seminar; University of Illinois - Urbana Champaign, April 2015.
- KUMUNUjr; University of Nebraska - Lincoln, April 2015.
- Algebraic Geometry Seminar; University of Illinois - Chicago, October 2014.
- Commutative Algebra and Algebraic Geometry Seminar; University of California - Berkeley, October 2014.

- AMS Sectional Meeting, Special Session on Toric Varieties; University of Wisconsin - Eau Claire, September 2014.
- Valley Geometry Seminar; University of Massachusetts - Amherst, March 2014.
- Commutative algebra seminar; University of Michigan, February 2014.
- Workshop on Geometry of Hilbert Schemes; Simons Center for Geometry and Physics at Stony Brook University, November 2013.

ORGANIZATIONAL
ACTIVITIES

- Co-organized the Georgia Algebraic Geometry Symposium (GAGS), 2022.
- Co-organized the algebraic geometry seminar, Harvard University, 2017-2020.
- Co-organized the colloquium, Harvard University, 2016-2017, 2018-present.
- Organized the student algebraic geometry seminar, University of Michigan, 2012-2104.
- Organized the math department summer mini-courses, University of Michigan, 2013.
- Organized and lectured for a weekly summer algebraic geometry seminar, University of Michigan, 2012.

TEACHING

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| Spring 2022 | Math 523: <i>Graduate commutative algebra</i> , Emory University.
Math 524: <i>Graduate scheme theory</i> , Emory University. |
| Fall 2021 | Math 221: <i>Linear algebra</i> , Emory University. |
| Fall 2020 | Math 788: <i>Geometry of Curves</i> , Emory University (a graduate topics course). |
| Spring 2020 | Math 137: <i>Algebraic geometry</i> , Harvard University. |
| Fall 2019 | Math 122: <i>Abstract algebra I</i> , Harvard University.
Math 221: <i>Graduate commutative algebra</i> , Harvard University. |
| Spring 2019 | Math 137: <i>Algebraic geometry</i> , Harvard University. |
| Fall 2018 | Math 131: <i>Topology</i> , Harvard University. |
| Spring 2018 | Math 137: <i>Algebraic geometry</i> , Harvard University. |
| Fall 2017 | Math 101: <i>Sets, groups, and topology</i> , Harvard University. |
| Spring 2017 | Math 252: <i>Linear series and positivity of vector bundles</i> , Harvard University (a graduate topics course). |
| Fall 2016 | Math 121: <i>Linear algebra and applications</i> , Harvard University. |
| Fall 2014 | Math 115: <i>Calculus I</i> , University of Michigan. |
| Summer 2013 | <i>M-Bio Calculus</i> , University of Michigan (summer course). |
| Fall 2012 | Math 115: <i>Calculus I</i> , University of Michigan (as course co-coordinator). |
| Spring 2012 | Math 116: <i>Calculus II</i> , University of Michigan. |
| Fall 2011 | Math 115: <i>Calculus I</i> , University of Michigan. |
| Spring 2011 | Math 115: <i>Calculus I</i> , University of Michigan. |
| Fall 2010 | Math 105: <i>Precalculus</i> , University of Michigan. |

PHD STUDENTS
ADVISED

- Jasmine Camero, Emory (expected 2025)
- Rohan Nair, Emory (expected 2025)

UNDERGRADUATE
MENTORING

- Eric Gao, Harvard (advised on senior thesis)
- James Hotchkiss, Harvard (collaborated on research project)
- Reuben Stern, Harvard (reading course on algebraic geometry)

OUTREACH

- Speaker at the Open Neighborhood Seminar, a seminar geared toward undergraduates, Harvard University, November 2019.
- Panelist at the Women in Math and Statistics conference, Harvard University, April 2017 and April 2019.
- Instructor at Michigan Math and Science Scholars (with Professor Mel Hochster and Olivia Walch), a two-week program at the University of Michigan for high-school students, Summer 2013.

- Academic mentor in math for an advanced high school student through the Michigan Mentorships Program, Summer 2013.

SERVICE

- Served as a referee for papers submitted to the following journals: Advances in Mathematics, Bollettino dell'Unione Matematica Italiana, Compositio Mathematica, Journal of Algebra, Journal of Algebraic Combinatorics, Proceedings of the American Mathematical Society.
- Served as Assistant Director for Graduate Studies, Harvard University, 2017-2020.
- Served on the graduate admissions committee, Harvard University, 2016-2018.