## James Hotchkiss

james.hotchkiss@columbia.edu Columbia University sites.google.com/view/jameshotchkiss Mathematics Hall, Room 415 **Employment** Ritt Assistant Professor, Columbia University 2023-present Education University of Michigan, Ph.D. Candidate in Mathematics 2018 - 2023Advisor: Alexander Perry Harvard College, A.B. in Mathematics cum laude 2018 Visiting Positions Postdoctoral Fellow, MSRI (SLMath) Spring 2024 Semester program in Noncommutative Algebraic Geometry Awards Donald J. Lewis Fellowship, University of Michigan 2022 Herb Alexander Award, Harvard College 2018 **Publications and Preprints** The period-index conjecture for abelian threefolds via Donaldson-Thomas theory (with A. Perry), In preparation. The period-index problem for complex tori, arxiv:2301.09293 (2023). Hodge theory of twisted derived categories and the period-index problem, arxiv:2212.10638 (2022). The gonality of complete intersection curves (with B. Ullery and C. Lau), J. Alg. 560 (2020), 579-608. Conference Talks Derived Categories, Arithmetic and Geometry, January 2024 Join Mathematics Meeting, 2024 October 2024 Brauer Groups and Derived Categories (lecture series) FRG Workshop, Northwestern

November 2023

Workshop on Derived Categories,

Hausdorff Research Institute

Algebraic Geometry and Singularities in Mixed and Positive Characteristic, FRG Special Month in Ann Arbor	May 2023
Brauer Groups in Algebraic Geometry and Arithmetic, AMS Central Sectional, Cincinatti	April 2023
Michigan Algebraic Geometry Symposium, University of Michigan	March 2023
Seminar Talks	
University of Toronto, Algebraic Geometry Seminar	December 2024
University of Wisconsin, Madison, Algebra and Algebraic Geometry Seminar	May 2023
University of Maryland, Algebra–Number Theory Seminar	May 2023
Leibniz Universität Hannover, Algebraic Geometry Seminar	April 2023
Harvard–MIT Algebraic Geometry Seminar	February 2023
Ohio State University, Arithmetic Geometry Seminar	February 2023
Other Invited Events	
Stacks Project Workshop University of Michigan, Ann Arbor	August 2023
Derived Categories, Arithmetic and Geometry AMS Mathematical Research Community	June 2023
Seminars Co-organized	
Hyperkähler Varieties, Columbia University	Fall 2023
Donaldson–Thomas Theory, University of Michigan	Spring 2022
Hodge Theory, University of Michigan	Spring 2020
Étale Cohomology, University of Michigan	Spring 2019
Other Service	
Referee for: Journal of the American Mathematical Society, Mathematische Z	Zeitschrift
Teaching	
Columbia University	
Calculus I	Fall 2023
University of Michigan	
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Spring 2023, Spring 2022, Spring 2021,

Fall 2020, Spring 2020, Fall 2019, Spring 2019

Calculus I

Precalculus Fall 2018  $Harvard\ College$  Course Assistant, Undergraduate Algebraic Geometry Spring 2018