## Benjamin Keigwin

CONTACT INFORMATION	Department of University of I		keigwin@sas.upenn.edu https://benkeigwin.com		
Research Interests	Algebraic Geometry, Homotopy Theory				
EDUCATION	University of Pennsylvania, Philadelphia, Pennsylvania				
	Graduate Student in Mathematics, August 2020 - May 2025 Expected				
	University of Cambridge, Cambridge, United Kingdom				
	Master of Advanced Study in Mathematics, June 2020				
	University of Virginia, Charlottesville, Virginia				
	B.A. with Highest Distinction in Mathematics, May 2019				
RESEARCH	Elliptic Curves over Arithmetic Fields (2019). Senior Thesis.				
	Some Explicit Polynomials with Galois Group $S_n$ over $\mathbb{Q}$ (2017).				
PRESENTATIONS AND TALKS	Penn Geometry/Topology Grad Seminar, Functional Analysis and Condensed Mathematics. (Nov 2022)				
	Penn Graduate Algebraic Geometry Seminar, An Introduction to Condensed/Pyknotic Mathematics. (Sept 2022)				
	Penn Geometry/Topology Grad Seminar, Dualities between Algebra and Geometry. (Dec 2021)				
	Public defense of distinguished major thesis, Elliptic Curves over Arithmetic Fields. (April 2019)				
Honors and Awards	2019	E.J. McShane Prize	University of Virginia Mathematics Department		
	2018	E.E. Floyd Prize, U	niversity of Virginia Mathematics Department		
	2015-2019	Echols Scholar Hono	ors Program, University of Virginia		
Conferences & Workshops Attended	Homotopy Theory with Applications to Arithmetic and Geometry, Fields Institute (June $2022$ )				
	Chern-Simons and Other Topological Field Theories, MSRI. (Nov 2021)				
	Motivic Homotopy Graduate Summer School at IAS/PCMI. (July 2021)				
	Viva Talbot Conference. (June 2021)				

Elliptic Curves, Torsors, and L-Functions, University of Virginia. (March 2017)

Shenandoah Undergraduate Mathematics and Statistics Conference, James Madison University. (September 2016)

Teaching	Princeton Prison Teaching Initiative				
Experience	Math instructor at South Woods State Prison				
	Instructor, Math 015 Beginning Mathematics	Spring 2022			
	University of Pennsylvania				
	Teaching Assistant, Math 1610 Honors Calculus	Fall 2022			
	Teaching Assistant, Math 603 Graduate Algebra				
	Teaching Assistant, Math 601 Graduate Algebraic Topology	Spring 2022			
	Teaching Assistant, Math 241 Calculus IV				
	University of Virginia				
	Teaching Assistant, Math 3340 Complex Variables				
	Teaching Assistant, Math 4651 Advanced Linear Algebra	Fall 2018			
SERVICE AND ACTIVITIES	Mentor for Echols Scholar Mentor Program, University of Virginia	2016-2019			
	Founder of University of Virginia "Integration Bee"	2016			