## John D. Wiltshire-Gordon

Contact	Williams College Mathematics and Statistics Bascom House	jdw4@williams.edu			
	33 Stetson Court Williamstown, MA 01267	https://jwiltshiregordon.github.io/			
Interests	Representation theory of categories, configuration spaces, computer algebra				
Academic	Williams College				
POSITIONS	Visiting Assistant Professor, Fall 2020 - Summer 2021				
	University of Wisconsin				
	Honorary Fellow, Fall 2019 - Summer 2020 Van Vleck Visiting Assistant Professor, Spring 2017 - Summer 2019 Supervisor: Jordan S. Ellenberg				
	ICERM				
	Semester postdoctoral researcher, Fall 2016 Program: "Topology in motion"				
Education	University of Michigan				
	Ph.D. May 2016. "Representation theory of combinatorial categories" Advisor: David E. Speyer				
	University of Chicago				
	B.A. in Mathematics, June 2011				
Papers	Configuration spaces of axis-aligned boxes with Maya Banks. In preparation.				
	On the tails of FI-modules with Peter Patzt. arXiv:1909.09729, September 2019.				
	Configuration space of a product. arXiv:1808.08894, August 2018.				
	On computing the eventual behavior of an FI-module over the rational numbers. arXiv:1808.07803 Math. Comp. 89 (2020), no. 326, 2985–3001.				
	Models for configuration space in a simplicial complex. arXiv:1706.06626, Colloq. Math. 155 (2019), no. 1, 127–139.				
	<b>Specht Polytopes and Specht Matroids</b> with Alexander Woo and Magdalena Za- jaczkowska. arXiv:1701.05277, January 2017. <i>Combinatorial algebraic geometry</i> , 201– 228, Fields Inst. Commun.				
	Algebraic structures on cohomology of configuration spaces of manifolds with flows with Jordan S. Ellenberg. arXiv:1508.02430, August 2015.				
	Categories of Dimension Zero arXiv:1508.04107. Proc. Amer. Math. Soc. 147 (2019), no. 1, 35–50.				
	Uniformly presented vector spaces arXiv:1406.0786, June 2014.				

Word-induced measures on compact groups with Gene S. Kopp. arXiv:1102.4353 Unpublished.

**Robust coin flipping** with Gene S. Kopp. arXiv:1009.4188. Advances in cryptology—EUROCRYPT 2012, 172–194, *Lecture Notes in Comput. Sci.*, 7237, Springer, Heidelberg, 2012.

TEACHING University of Michigan Fall 2012 Calculus 115 Winter 2013 Calculus 115

## University of Wisconsin

Fall	2017	Combinatorics 475
Spring	2018	Collaborative Undergraduate Research Lab 490
Fall	2018	Graduate Algebra 741

## Williams College

Fall	2020	Intro to Computer Algebra 391
Fall	2020	Representation theory 456
Spring	2021	Linear algebra
Spring	2021	Linear algebra (second section)

 MENTORSHIP
During the 2015-2016 academic year, I mentored an undergraduate student. Under my guidance, he proved a result that appeared in the Journal of Algebra: Andrew Gitlin. New examples of dimension zero categories. arXiv:1709.06971. J. Algebra, 505:271-278, 2018.

- Fall of 2016, I was selected as a student mentor for the Fields Institute session "Combinatorial algebraic geometry."
- During the 2018-2019 academic year, I began a collaboration with a first-year graduate student named Maya Banks. This work is still in progress.
- Summer 2019, I was a TA for the MSRI summer school "Representation Stability"

Honors	2011 - 2014	NSF Graduate Research Fellow
	2015 - 2016	Rackham Predoctoral Fellow
	2016	Wirt & Mary Cornwell Prize