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Born: April 21, 1992—Richmond, VA

Nationality: American

Languages: English, Chinese, German, French (reading only)

Areas of interest

Geometric representation theory, quantum algebra, integrable systems, special functions

Education

- 2014- PhD in Mathematics; University of Illinois, Urbana-Champaign
 Advisor: Thomas Nevins
- 2010-2013 BA in Mathematics with High Honors; University of California, Berkeley

Research works

- 2019 *Wreath Macdonald theory*
 In preparation
- Wreath Macdonald polynomials as eigenstates*
 arxiv:1904.05015

Other writing

- Category \mathcal{O} and the Kazhdan-Lusztig conjectures*
 in *Soergel Bimodules*, edited by B. Elias, S. Makisumi, U. Thiel, and G. Williamson
 RSME Springer Series
 Forthcoming
- 2019 *Representation Theory and the Elliptic Frontier*
 joint with D. Berwick-Evans, E. Cliff, N. Ganter, and A. Tripathy
 Notices of the AMS, Vol.66 (2019), No.2, pp. 242-245

Awards

- 2018 Hack Fellowship; UIUC Department of Mathematics

2016 Golub Fellowship; UIUC Department of Mathematics

Talks

2020 AMS JMM; “Equivariant elliptic cohomology and geometric representation theory”

2019 Ohio State; Representations and Lie Theory Seminar
Glasgow; Algebra Seminar
Edinburgh; MAXIMALS Seminar
UIUC; Elliptic Cohomology Days
MIT; Geometric Representation Theory Seminar
Yale; Geometry, Symmetry, and Physics Seminar

2018 UIUC; Integrability and Representation Theory Seminar

2017 UIUC; Workshop on Conformal Field Theory
UIUC; Integrability and Representation Theory Seminar

2015 Talbot workshop
UIUC; Algebraic Geometry Seminar

Organizational experience

2019 AMS MRC on Geometric Representation Theory and Equivariant Elliptic Cohomology

2015-2017 UIUC Graduate Algebraic Geometry Seminar

2015 Graduate Student Topology and Geometry Conference

Service

Referee for SIGMA

Committee member: TA Teaching Award Committee, Coble Steering Committee.

Teaching experience

2018 Course Instructor; UIUC Department of Mathematics
Math 231

Course Instructor; Danville Area Community College, Danville Correctional Center
Math 115

2016- Writing and Math Partner, Workshop Facilitator, For-Credit Course Instructor; Educa-
tion Justice Project, Danville Correctional Center
Math 220, 231

2014- Teaching assistant; UIUC Department of Mathematics
Math 112, 124, 220, 221, 241, 285, 415