

Adam Saltz

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RESEARCH INTERESTS

Low-dimensional topology
Interactions between Khovanov homology and Floer homology
Trisections of four-manifolds
Contact topology and transverse links

EMPLOYMENT

2016 – Present University of Georgia
Assistant Professor (limited-term), Mathematics
Supervised by David Gay

EDUCATION

2016 **Boston College**, Chestnut Hill, MA
Ph.D. in Mathematics
Advisor: John Baldwin

2010 **Johns Hopkins University** (JHU), Baltimore, MD
Master of Arts in Mathematics and Bachelor of Arts in Mathematics, May 2010

PUBLICATIONS

An annular refinement of the transverse invariant in Khovanov homology
With Diana Hubbard. *Algebraic & Geometric Topology*. 16-4 (2016), 2305-2324.
DOI 10.2140/agt.2016.16.2305, [arxiv:1507.06263 \[math.GT\]](https://arxiv.org/abs/1507.06263)

The Ozsváth-Szabó spectral sequence and combinatorial link homology
Submitted for publication, 2017.
arxiv preprint, [arxiv:1510.02819 \[math.GT\]](https://arxiv.org/abs/1510.02819)

Strong Khovanov-Floer Theories and Functoriality
To be submitted soon.
arxiv preprint, [arxiv:1712.08272 \[math.GT\]](https://arxiv.org/abs/1712.08272)

A tangle theory for Szabó's geometric link homology theory
With John Baldwin and Cotton Seed. *In preparation*.

Bridge trisections of knotted surfaces and Khovanov homology
In preparation.

INVITED TALKS

- 2018 Joint Mathematics Meeting, special session on “Quantum link invariants, Khovanov homology, and low-dimensional manifolds,” San Diego.
AMS Eastern sectional meeting, special session on “Connections between Trisections of 4-manifolds and Low-dimensional Topology,” Northeastern University
Michigan State University, geometry and topology seminar
Rice University, topology seminar
- 2017 University of Virginia, topology seminar
Participant, American Institute of Mathematics trisections workshop
Syracuse University, topology seminar
Binghamton University (SUNY), topology seminar
- 2016 Georgia Institute of Technology, topology seminar
AMS Western sectional meeting, special session on “Floer-theoretic invariants of knots and three-manifolds”, University of Denver
AMS Southeastern sectional meeting, special session on “Low-dimensional topology and geometry”, University of Georgia.
AMS Graduate Student Conference in Geometry and Topology, Brown University.
- 2015 Louisiana State University, topology seminar.

SUBMITTED TALKS

- 2017 Tech Topology Conference, Georgia Institute of Technology.
- 2016 Advances in Quantum and Low-Dimensional Topology, University of Iowa.
- 2015 Moab Topology Conference, Utah State University.
Graduate Student Conference in Geometry and Topology, Temple University.

HONORS AND AWARDS

- 2013 Donald J. White Teaching Excellence Award

SERVICE

- 2017 Organizer for Georgia International Topology Conference
Organizer for UGA-Tech Joint Topology Seminar
Referee for Journal of the London Mathematical Society
Reviewer for Zentralblatt
- 2013 – 2016 Representative to the Graduate Arts & Sciences Association at BC
- 2012 – 2015 Organizer of Graduate Student “Floer-ish” seminar
President of BC’s Mathematics Graduate Student Association and American Mathematical Society student chapter

TEACHING

- Calculus I (Fall 2012 – 2014, Fall 2016 and 2017)
Calculus II (Spring 2013 – 2015, Spring 2017)
Applied Linear Algebra (Spring 2018)
Knot Theory (topology graduate topics course) (Fall 2017)
Differential Geometry of Curves and Surfaces (Spring 2016)
Finite Probability (Fall 2015)
Boston College Math Experience (Summer 2014, course for high school students)
As a teaching assistant: pre-calculus, linear algebra, calculus