LINH TRUONG

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APPOINTMENTS	University of Michigan, Ann Arbor, MI Assistant Professor Postdoctoral Assistant Professor	2021 - 2020 - 2021
	Institute for Advanced Study, Princeton, NJ Member and NSF Postdoctoral Fellow	2019 - 2020
	Columbia University, New York, NY Ritt Assistant Professor NSF Postdoctoral Fellow	2018 - 2018 2017 - 2018
	Massachusetts Institute of Technology, Cambridge, MA NSF Postdoctoral Fellow	2016 - 2017
Education	Princeton University, Princeton, NJ Ph.D. in Mathematics Thesis: Applications of Heegaard Floer Homology to Knot Concordance Advisors: Peter Ozsváth and Zoltán Szabó	
	University of Pennsylvania, Philadelphia, PAB.A., M.A. in Mathematics	2011

Publications & Preprints

Khovanov homology and the Involutive Heegaard Floer homology of branched double covers, (with A. Alishahi and M. Zhang), preprint (2023), arXiv:2305.07172.

A note on knot Floer thickness and the dealternating number, *Topology Appl* 337 (2023), Paper No. 108638, 5.

Homology concordance and knot Floer homology (with I. Dai, J. Hom, and M. Stoffregen), preprint (2021), arXiv:2110.14803. *Submitted*.

A combinatorial description of the LOSS Legendrian knot invariant (with D. He), *J. Knot Theory Ramifications* 31 (2022), no. 13, 2250093.

Comparing Bennequin-type inequalities (with E. Aceves and K. Kawamuro), New York J. Math. 27 (2021), 124-140.

Braids, fibered knots, and concordance questions (with D. Hubbard, K. Kawamuro, F. C. Kose, G. Martin, O. Plamenevskaya, K. Raoux, and H. Turner), *Research directions in symplectic and contact geometry and topology*, 293–324, Assoc. Women Math. Ser., 27, Springer, Cham, 2021.

On the Upsilon invariant of fibered knots and right-veering open books (with D. He and D. Hubbard), *Math. Res. Lett.* 29 (2022), no. 2, 421-444.

Annular link invariants from the Sarkar-Seed-Szabó spectral sequence (with M. Zhang), *Michigan Math. J.* 71 (2022), no. 4, 725-763.

A slicing obstruction from the 10/8+4 theorem, 2019-20 MATRIX Annals, MATRIX Book Ser., Springer (2021), pp. 167-172.

More concordance homomorphisms from knot Floer homology (with I. Dai, J. Hom, and M. Stoffregen), *Geom. Topol.*, 25 (2021) 275-338.

An infinite rank summand of the homology cobordism group (with I. Dai, J. Hom, and M. Stoffregen), to appear in *Duke Math. J.*

A refinement of the Ozsváth-Szabó large integer surgery formula and knot concordance, *Proc. Amer. Math. Soc.*, 149 (2021), no. 4, 1757-1771.

Truncated Heegaard Floer homology and knot concordance invariants, *Algebr. Geom. Topol.*, 19 (2019), no. 4, 1881-1901.

Extremal Measures and Clockwise Overlays (with H. Bercovici and W.S. Li), Discrete Math., 315, 2014, p 53-64.

Αι	VARDS
&	GRANTS

NSF	CAREER.	Grant	DMS-2237131	(PI: \$550	.000	2023
1 101	CILICIDIO	OI CHIL	D1110 ==01101	(I I) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,000	, 2020

LSA Teaching Academy Grant Professional Development Grant 2022 – 2024

NSF Grant DMS-2005539, DMS-2104309 (PI; \$107,908) 2020 – 2023

NSF Mathematical Sciences Postdoctoral Research Fellowship 2016 – 2020

NSF Graduate Research Fellowship Program Honorable Mention 2013

Dean's Scholar, University of Pennsylvania

2010

-2028

Awarded by the College of Arts and Sciences annually to nine undergraduate students, nominated by faculty, for outstanding academic achievements.

INVITED
CONFERENCE
& WORKSHOP
TALKS

Georgia Topology Conference May 2024 University of Georgia

New developments in 3- and 4-manifold topology
University of Virginia

June 2023

Gauge theory and low-dimensional topology

April 2023
IMSA, University of Miami

Floer homotopical methods in low dimensional & symplectic topology November 2022 Simons Laufer Mathematical Sciences Institute (previously MSRI)

Women and Gender Minorities in Symplectic and Contact Geometry April 2022 AMS-AWM Special Session, Joint Mathematics Meetings

Geometric Topology October 2021
AMS Fall Central Sectional Meeting Special Session

	Low-Dimensional Topology [cancelled due to COVID] AMS Sectional Special Session, Purdue University	April 2020
	Geometry and Topology workshop Institute for Pure & Applied Mathematics, UCLA	January 2020
	Floer Homology in Dimensions 3 and 4 AMS Fall Central Sectional Meeting Special Session	September 2019
	Women in Symplectic and Contact Geometry and Topology workshop ICERM at Brown University	July 2019
	Thirty Years of Floer Theory for 3-Manifolds Workshop Casa Matemática Oaxaca	August 2017
Invited Colloquia	UC Davis Geometry/Topology seminar	February 2024
& Seminar Talks	Gauge Theory Virtual seminar	February 2022
TALKS	K-OS Knot online seminar	February 2022
	University of Georgia Topology seminar	October 2021
	Stanford University Topology seminar	May 2021
	${\bf Boston~College~\it Geometry/Topology/Dynamics~\it virtual~seminar}$	April 2021
	University of Massachusetts Amherst $Colloquium$	March 2021
	Michigan State University Geometry and Topology seminar	February 2021
	UC San Diego Topology seminar	October 2020
	Lafayette-Lehigh $Geometry\ \mathcal{E}\ Topology\ seminar\ [cancelled\ due\ to\ COVI$	(D) March 2020
	Haverford and Bryn Mawr Colloquium [cancelled due to COVID]	March 2020
	North Carolina State University Colloquium	February 2020
	Duke University Colloquium	February 2020
	University of Notre Dame Colloquium	February 2020
	University of Illinois at Chicago Colloquium	January 2020
	Fordham University Colloquium	December 2019
	Rice University Topology seminar	November 2019
	Princeton University Noetherian Ring seminar	November 2019
	${\bf Institute\ for\ Advanced\ Study}\ {\it Mathematical\ Conversations}$	October 2019
	Princeton University Topology seminar	October 2019

	University of Michigan RTG seminar Geometry, Topology, and Dynamics October 2019
	University of Michigan Colloquium October 2019
	University of Virginia Geometry seminar October 2019
	Institute for Advanced Study Short talks by postdoctoral members September 2019
	CIRGET, University of Montréal Geometry and Topology seminar September 2019
	Dartmouth College Topology seminar May 2019
	Massachusetts Institute of Technology Geometry and Topology seminar April 2019
	Michigan State University Geometry and Topology seminar April 2019
	Louisiana State University Virtual Topology seminar April 2019
	UC Davis Geometry/Topology seminar & Student-run G&T seminar February 2019
	Georgia Institute of Technology Geometry Topology seminar April 2018
	Stony Brook University Topology and Symplectic Geometry seminar February 2018
	California Institute of Technology Geometry and Topology seminar October 2017
	Brandeis University Topology seminar February 2017
	Princeton University Topology seminar February 2016
Invited Workshops	Floer Homotopy Theory and Low-Dimensional Topology workshop University of Oregon August 2019
	Frontiers in Floer homology Boston College July 2019
	Simons Collaboration on Homological Mirror Symmetry Simons Foundation November 2018
CONTRIBUTED TALKS	Research Program: Quantum Field Theory and Manifold Invariants July 2019 Park City Mathematics Institute
	Workshop in Geometric Topology University of Wisconsin – Milwaukee June 2019
	Lightning Talks, Tech Topology Conference (2 talks) Georgia Institute of Technology December 2017, 2018
Expository Talks	University of Michigan Learning seminar in Algebraic Combinatorics January 2022
THIN	University of Michigan RTG Representation Theory seminar November 2021

	Reading seminar in Heegaard Floer homology (online) Virtual Low-dimensional Topology / University of Virginia	May 2020
	Columbia University Michael Zhao Memorial Student Colloquium	March 2019
	Columbia University Informal Topology Reading Seminar (4 talks)	2016 - 2019
	Princeton University Graduate Student Seminar	February 2015
	Princeton University Informal Graduate Topology Seminar (11 talks)	2012 - 2014
Conference	Michigan Topology Intercity Symposium	November 2023
& Seminar Organization	University of Michigan Topology Seminar	2020 - present
	Princeton University Horizons Seminar	Spring 2021
	Nearly Carbon Neutral Topology Conference (online) Topic session: "Floer homology and low-dimensional topology"	June 2020
	Columbia University Symplectic Geometry, Gauge Theory & Categorification seminar	2017 - 2019
	Princeton University Informal Graduate Topology Seminar	2013 - 2015
	Princeton University Noetherian Ring	Spring 2013
	Institute for Advanced Study Women and Mathematics Program	Spring 2013
SERVICE	Honors Committee, Michigan Math	2023 - 2024
	Ombuds Committee, Michigan Math	2023 - 2024
	Undergraduate Research REU Committee, Michigan Math 2021 –	2022, 2023-2024
	Admissions & Fellowships Math Committee, Michigan Math	2021 - 2022
	Climate and Inclusion Committee, Princeton University	2020 - 2024
	NSF grant review panelist	2021
	Referee for numerous math journals	
TEACHING	University of Michigan, Instructor Math 697: Topics in Topology Math 490: Introduction to Topology Math 590: Introduction to Topology Math 215: Calculus III Math 697: Topics in Topology Math 115: Calculus I	Fall 2023 Fall 2023 Winter 2022 Fall 2021 Winter 2021 Fall 2020

	Columbia University, Instructor Math UN1201: Calculus III Math UN1101: Calculus I Math UN2000: Introduction to Higher Mathematics	Spring 2019 Fall 2017, 2018 Fall 2018
	Princeton University, Instructor Math 201: Multivariable Calculus	Fall 2014
	Princeton University , Teaching Assistant Linear algebra, calculus, analysis, and algebraic topology	2012 - 2015
Additional Teaching	ICERM Perspectives on Dehn Surgery, Teaching Assistant Yi Ni's course on Heegaard Floer homology and Dehn surgery	July 2019
& Mentorship	PCMI Graduate Summer School, Teaching Assistant Jen Hom's course on Heegaard Floer homology	July 2019
	Columbia University, Supervised Reading course Topic: Khovanov homology and knot Floer homology	Spring 2019
	Columbia Summer Undergraduate Research Program Co-supervised six students in knot theory and grid homology	Summer 2018
OUTREACH	AWM Mentoring Program , University of Michigan Mentor for a group of six undergrads, grad students and postdoc	2023-2024
	GradFUTURES, Princeton University Panelist, "Pursuing a career in academia with math and physics PhD"	April 2022
	Ypsi Super Saturdays , Math Corps at University of Michigan I volunteered to tutor students from Ypsilanti Community Middle School.	2020 - 2021
	Mentor Network, Association for Women in Mathematics (AWM)	Spring 2021
	Prospective Ph.D. Preview (P3) , Princeton University I co-hosted the Math Open House for the P3 program, which aims to recruit first-generation or low-income students and those from historically underrepresented groups.	October 2020
	AWM Lunch with the speaker , University of Virginia I led an informal discussion with students on career questions.	October 2019
	Association for Women in Mathematics, Columbia University I served as a faculty mentor for three women undergraduate math major	2018 – 2019 ors.
	Meeting of the LSU chapter of the AWM, Louisiana State Univ. I led an informal discussion with graduate students on career questions.	April 2019
	Graduate Research Symposium , Women in Science at Columbia I reviewed scientific abstracts submitted by women graduate students.	April 2018
	Scientista Symposium, Scientista Foundation	April 2018

I judged the S.T.E.M. poster fair for women undergraduates and graduate students in science, engineering and mathematics.

S.T.E.M. Outreach Colloquium, NYC Department of Education March 2018 I gave a knot theory presentation for high school students and teachers in the NYC High School Science Research Pathways Program.

Columbia Undergraduate Math Society, Columbia University March 2018 I gave a talk on Khovanov homology for undergraduate math majors.

Princeton University Math Competition, Princeton University November 2014 I proctored for PUMaC, a math contest for high school students.

Women and Mathematics, IAS and Princeton University May 2012 Panelist for discussion on graduate school and career plans.

Mentoring Möbius, Princeton Math Club

Mentor for undergraduates pursuing a mathematics major.

Penn Undergraduate Math Society, University of Pennsylvania April 2011 Panelist for info session on applying to math graduate school.