

Hyunki Min

EMPLOYMENT	Hedrick Assistant Adjunct Professor, UCLA <i>Mentor: Ko Honda</i>	2022 - 2025
	Postdoctoral Associate, MIT <i>Mentor: Lisa Piccirillo</i>	2021 - 2022
EDUCATION	Ph.D. Mathematics, Georgia Tech <i>Advisor: John Etnyre</i>	2015 - 2021
	B.S. Computer Science and Engineering, Seoul National University	2008 - 2015
PAPERS	Cable links of uniformly thick knot types with Rima Chatterjee, John Etnyre and Thomas Rodewald arXiv:2507.03185	
	Bordered contact invariants and half Giroux torsion with Konstantinos Varvarezos arXiv:2506.14050	
	Spinal open books and symplectic fillings with exotic fibers with Agniva Roy and Luya Wang arXiv:2410.10697	
	On contact invariants in bordered Floer homology with Konstantinos Varvarezos arXiv:2410.05511	
	Tight contact structures on a family of hyperbolic L-spaces with Isacco Nonino arXiv:2311.14103	
	Spaces of Legendrian cables and Seifert fibered links with Eduardo Fernández arXiv:2310.12385	
	Existence and construction of non-loose knots with Rima Chatterjee, John Etnyre and Anubhav Mukherjee <i>IMRN, 2025-14 (2025)</i>	
	Small symplectic caps and embeddings of homology balls in the complex projective plane with John Etnyre, Lisa Piccirillo and Agniva Roy arXiv:2305.16207 To appear in <i>Selecta Mathematica</i>	
	The contact mapping class group and rational unknots in lens spaces <i>IMRN, 2024-15 (2024) 11315–11342</i>	
	Non-loose torus knots with John Etnyre and Anubhav Mukherjee	

[arXiv:2206.14848](#)

Strongly fillable contact structures without Liouville fillings

[arXiv:2205.09912](#)

Cabling Legendrian and transverse knots

with Apratim Chakraborty and John Etnyre

Journal of Differential Geometry, 126-1 (2024) 1-48

On 3-manifolds that are boundaries of exotic 4-manifolds

with John Etnyre and Anubhav Mukherjee

Transactions of the AMS, 375-6 (2022) 4307-4332

Classification of tight contact structures on surgeries on the figure-eight knot

with James Conway

Geometry & Topology, 24-3 (2020) 1457-1517

TALKS

AMS Sectional Meeting, Cal Poly	May 2025
Topology seminar, Caltech	April 2025
Topology seminar, Boston College	March 2025
Topology seminar, UGA	November 2024
Topology seminar, KIAS	October 2024
Topology seminar, University of Arkansas	May 2024
Princeton Topology Conference, Princeton University	April 2024
Australian Geometric Topology Webinar, Zoom	Mar 2024
Topology seminar, University of Southern California	November 2023
Topology seminar, Claremont Colleges	November 2023
Topology seminar, UT Austin	September 2023
Graduate Student Topology and Geometry Conference, Harvard University	July 2023
Georgia Topology Conference, University of Georgia	May 2023
AMS Sectional Meeting, Georgia Tech	March 2023
Workshop for Young Symplectic Geometers, Korea	February 2023
G&T Workshop Turkey, Online workshop	December 2021
Boston Graduate Topology Seminar, MIT	November 2021
Informal Symplectic Seminar, MIT	November 2021
Geometry/Topology Seminar, MIT	September 2021

GT GAPS , Online seminar	<i>August 2021</i>
Joint Mathematics Meeting , Online conference	<i>January 2021</i>
Tech Topology Conference , Georgia Tech	<i>December 2020</i>
NCNGT 20 , Online conference	<i>June 2020</i>
Topology Seminar , University of Alabama	<i>February 2020</i>
Topology Seminar , Seoul National University	<i>December 2019</i>
Tech Topology Conference , Georgia Tech	<i>December 2019</i>
Topology Seminar , Binghamton University	<i>April 2019</i>
AMS Sectional Meeting , University of Auburn	<i>March 2019</i>
Topology Seminar , University of Georgia	<i>January 2019</i>
Mini-workshop , Seoul National University	<i>January 2019</i>
Tech Topology Conference , Georgia Tech	<i>December 2018</i>

TEACHING

UCLA	Math 32B: Multivariable Calculus	<i>Spring 2025</i>
	Math 120A: Differential Geometry	<i>Winter 2025</i>
	Math 32B: Multivariable Calculus	<i>Winter 2025</i>
	Math 132: Complex Analysis for Applications	<i>Fall 2024</i>
	Math 132: Complex Analysis for Applications	<i>Spring 2024</i>
	Math 110B: Algebra	<i>Winter 2024</i>
	Math 132: Complex Analysis for Applications	<i>Winter 2024</i>
	Math 31B: Integration and Infinite Series	<i>Fall 2023</i>
	Math 33A: Linear Algebra and its Applications	<i>Spring 2023</i>
	Math 33B: Differential Equations	<i>Winter 2023</i>
	Math 115A: Linear Algebra	<i>Fall 2022</i>
	TA of 18.03: Differential Equations	<i>Spring 2022</i>
MIT	TA of 18.02: Multivariable Calculus	<i>Fall 2021</i>
	GRE Math Boot Camp	<i>Summer 2021</i>
GEORGIA TECH	Math 2550: Introduction to Multivariable Calculus	<i>Summer 2020</i>
	Math 2550: Introduction to Multivariable Calculus	<i>Summer 2019</i>

	Math 2551: Multivariable Calculus	Summer 2018
	Head TA of Math 2551: Multivariable Calculus	Spring 2021
	Head TA of Math 2551: Multivariable Calculus	Fall 2019
	TA of Math 1554: Linear Algebra	Fall 2020
	TA of Math 2551: Multivariable Calculus	Spring 2020
	TA of Math 2551: Multivariable Calculus	Spring 2019
	TA of Math 1554: Linear Algebra	Fall 2018
	TA of Math 2552: Differential Equations	Fall 2017
	TA of Math 2551: Multivariable Calculus	Summer 2017
	TA of Math 2551: Multivariable Calculus	Spring 2017
	TA of Math 1564: Linear Algebra with Abstract Vector Spaces	Fall 2016
	TA of Math 2552: Differential Equations	Summer 2016
	TA of Math 2551: Multivariable Calculus	Spring 2016
AWARDS	O'Neill Travel Award, UCLA	Spring 2025
	Top Grad Student Award, Georgia Tech	Spring 2021
	Outstanding Grad Student Instructor Award, Georgia Tech	Spring 2021
	Outstanding TA Award, Georgia Tech	Spring 2021
MENTORING	REU: 2-bridge knots and the cosmetic surgery conjecture, UCLA <i>Mentees: Michael Huang, Zelong Li, Rahi Tanaz, Chengyi Zhang</i>	Summer 2023
	Direct Reading Program: Legendrian knots, MIT <i>Mentees: Pedro Suarez, Liane Xu</i>	Winter 2021
SERVICE	Referee work: <i>Journal of Topology, New York Journal of Mathematics, Bullentins of London Mathematical Society, Journal of Symplectic Geometry, Asian Journal of Mathematics, Topology and its Applications, Transactions of the AMS, Journal of European Mathematical Society, Algebraic and Geometric Topology</i>	
	Co-organizer, Geometry & Topology Seminar, UCLA	Spring 2024
	Co-organizer, Special Session at AMS Sectional Meeting , UC Riverside	Fall 2024
	Co-organizer, Geometry & Topology Seminar, UCLA	Fall 2024
	Co-organizer, Geometry & Topology Seminar, MIT	Spring 2022

Co-organizer , Geometry & Topology Seminar, MIT	<i>Fall 2021</i>
Co-organizer , Contact and symplectic topology , NCNGT 21	<i>Summer 2021</i>
Co-organizer , Reading groups on filling obstructions , Georgia Tech	<i>Spring 2021</i>
Co-organizer , 4-dimensional manifolds reading seminar , Georgia Tech	<i>Fall 2020</i>
Co-organizer , Heegaard Floer homology reading seminar, Georgia Tech	<i>Spring 2020</i>
Organizer , High dimensional contact topology reading seminar , Georgia Tech	<i>Fall 2019</i>
Grad Panel with Visiting Honor Students , Georgia Tech	<i>Spring 2021</i>

REFERENCES

John Etnyre, Georgia Tech

Jen Hom, Georgia Tech

Ko Honda, UCLA

Lisa Piccirillo, UT Austin

Klara Grodzinsky (Teaching), Georgia Tech

Guido Montufar (Teaching), UCLA
