

Hyunki Min

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EMPLOYMENT	Limited Term Professor, UGA <i>2025 - present</i>
	Hedrick Assistant Adjunct Professor, UCLA <i>Mentor: Ko Honda</i> <i>2022 - 2025</i>
	Postdoctoral Associate, MIT <i>Mentor: Lisa Piccirillo</i> <i>2021 - 2022</i>
EDUCATION	Ph.D. Mathematics, Georgia Tech <i>Advisor: John Etnyre</i> <i>2015 - 2021</i>
	B.S. Computer Science and Engineering, Seoul National University <i>2008 - 2015</i>
PAPERS	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 arXiv:2310.04908 To appear in <i>IMRN</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 Revise and resubmit at <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 Revise and resubmit at <i>Memoirs of the AMS</i>

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

Tech Topology Conference, Georgia Tech	December 2020
NCNGT 20, Online conference	June 2020
Topology Seminar, University of Alabama	February 2020
Topology Seminar, Seoul National University	December 2019
Tech Topology Conference, Georgia Tech	December 2019
Topology Seminar, Binghamton University	April 2019
AMS Sectional Meeting, University of Auburn	March 2019
Topology Seminar, University of Georgia	January 2019
Mini-workshop, Seoul National University	January 2019
Tech Topology Conference, Georgia Tech	December 2018

TEACHING
UCLA

Math 32B: Multivariable Calculus	Spring 2025
Math 120A: Differential Geometry	Winter 2025
Math 32B: Multivariable Calculus	Winter 2025
Math 132: Complex Analysis for Applications	Fall 2024
Math 132: Complex Analysis for Applications	Spring 2024
Math 110B: Algebra	Winter 2024
Math 132: Complex Analysis for Applications	Winter 2024
Math 31B: Integration and Infinite Series	Fall 2023
Math 33A: Linear Algebra and its Applications	Spring 2023
Math 33B: Differential Equations	Winter 2023
Math 115A: Linear Algebra	Fall 2022

MIT

TA of 18.03: Differential Equations	Spring 2022
TA of 18.02: Multivariable Calculus	Fall 2021

GEORGIA TECH

GRE Math Boot Camp	Summer 2021
Math 2550: Introduction to Multivariable Calculus	Summer 2020
Math 2550: Introduction to Multivariable Calculus	Summer 2019
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
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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
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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
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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	Fall 2021
	Co-organizer, Contact and symplectic topology , NCNGT 21	Summer 2021

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
