

# Hyunki Min

EMPLOYMENT	<b>Hedrick Assistant Adjunct Professor</b> , UCLA <i>Mentor: Ko Honda</i>	2022 - 2025
	<b>Postdoctoral Associate</b> , Massachusetts Institute of Technology <i>Mentor: Lisa Piccirillo</i>	2021 - 2022
EDUCATION	<b>Ph.D. Mathematics</b> , Georgia Institute of Technology <i>Advisor: John Etnyre</i>	2015 - 2021
	<b>B.S. Computer Science and Engineering</b> , Seoul National University	2008 - 2015
PAPERS	<b>Spinal open books and symplectic fillings with exotic fibers</b> with Agniva Roy and Luya Wang <a href="#">arXiv:2410.10697</a>	
	<b>On contact invariants in bordered Floer homology</b> with Konstantino Varvarezos <a href="#">arXiv:2410.05511</a>	
	<b>Tight contact structures on a family of hyperbolic L-spaces</b> with Isacco Nonino <a href="#">arXiv:2311.14103</a>	
	<b>Spaces of Legendrian cables and Seifert fibered links</b> with Eduardo Fernández <a href="#">arXiv:2310.12385</a>	
	<b>Existence and construction of non-loose knots</b> with Rima Chatterjee, John Etnyre and Anubhav Mukherjee <a href="#">arXiv:2310.04908</a>	
	<b>Small symplectic caps and embeddings of homology balls in the complex projective plane</b> with John Etnyre, Lisa Piccirillo and Agniva Roy <a href="#">arXiv:2305.16207</a> (Minor revision request from <i>Selecta Mathematica</i> )	
	<b>The contact mapping class group and rational unknots in lens spaces</b> <i>IMRN, 2024-15 (2024) 11315–11342</i>	
	<b>Non-loose torus knots</b> with John Etnyre and Anubhav Mukherjee <a href="#">arXiv:2206.14848</a>	
	<b>Strongly fillable contact structures without Liouville fillings</b> <a href="#">arXiv:2205.09912</a>	
	<b>Cabling Legendrian and transverse knots</b> 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*

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TALKS

AMS Sectional Meeting, Cal Poly	May 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	August 2021
Joint Mathematics Meeting, Online conference	January 2021
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	<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>

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TEACHING  
UCLA

Math 32B: Multivariable Calculus	<i>Spring 2024</i>
Math 120A: Differential Geometry	<i>Winter 2024</i>
Math 32B: Multivariable Calculus	<i>Winter 2024</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>

MIT

TA of 18.03: Differential Equations	<i>Spring 2022</i>
TA of 18.02: Multivariable Calculus	<i>Fall 2021</i>

GEORGIA TECH

<b>GRE Math Boot Camp</b>	<i>Summer 2021</i>
Math 2550: Introduction to Multivariable Calculus	<i>Summer 2020</i>
Math 2550: Introduction to Multivariable Calculus	<i>Summer 2019</i>
Math 2551: Multivariable Calculus	<i>Summer 2018</i>
Head TA of Math 2551: Multivariable Calculus	<i>Spring 2021</i>
Head TA of Math 2551: Multivariable Calculus	<i>Fall 2019</i>
TA of Math 1554: Linear Algebra	<i>Fall 2020</i>
TA of Math 2551: Multivariable Calculus	<i>Spring 2020</i>

	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	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</i> , <i>New York Journal of Mathematics</i> , <i>Bulletins of London Mathematical Society</i> , <i>Journal of Symplectic Geometry</i> , <i>Asian Journal of Mathematics</i> , <i>Topology and its Applications</i> , <i>Transactions of the AMS</i> , <i>Journal of European Mathematical Society</i>	
	Co-organizer, Geometry & Topology Seminar, UCLA	Spring 2024
	Co-organizer, <a href="#">Special Session at AMS Sectional Meeting</a> , 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, <a href="#">Contact and symplectic topology</a> , NCNGT 21	Summer 2021
	Co-organizer, <a href="#">Reading groups on filling obstructions</a> , Georgia Tech	Spring 2021
	Co-organizer, <a href="#">4-dimensional manifolds reading seminar</a> , Georgia Tech	Fall 2020
	Co-organizer, Heegaard Floer homology reading seminar, Georgia Tech	Spring 2020
	Organizer, <a href="#">High dimensional contact topology reading seminar</a> , Georgia Tech	Fall 2019

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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

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