

Hyunki Min

Department of Mathematics
University of California
Los Angeles CA 90095
hkmin27@math.ucla.edu
<https://hkmin27.github.io/>

EMPLOYMENT	Hedrick Assistant Adjunct Professor, UCLA <i>Mentor: Ko Honda</i>	2022 - 2025
	Postdoctoral Associate, Massachusetts Institute of Technology <i>Mentor: Lisa Piccirillo</i>	2021 - 2022

EDUCATION	Ph.D. Mathematics , Georgia Institute of Technology <i>Advisor: John Etnyre</i>	2015 - 2021
	B.S. Computer Science and Engineering , Seoul National University	2008 - 2015

PAPERS	Existence and construction of non-loose knots with Rima Chatterjee, John Etnyre and Anubhav Mukherjee arXiv:2310.04908	
	Small symplectic caps and embeddings of homology balls in the complex projective plane with John Etnyre, Lisa Piccirillo and Agniva Roy arXiv:2305.16207	
	The contact mapping class group and rational unknots in lens spaces arXiv:2207.03590	
	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 arXiv:2012.12148 To appear in <i>Journal of Differential Geometry</i>	
	On 3-manifolds that are boundaries of exotic 4-manifolds with John Etnyre and Anubhav Mukherjee <i>Transactions of the AMS</i> , 375-6 (2022) 4307-4332	
	Classification of tight contact structures on surgeries on the figure-eight knot with James Conway <i>Geometry & Topology</i> , 24-3 (2020) 1457-1517	

TALKS	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	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 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
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
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</i>	
	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	Spring 2021

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, MIT

Klara Grodzinsky (Teaching), Georgia Tech
