

Gheehyun Nahm

Education	Princeton University Ph.D. candidate in Mathematics	2023 – present
	University of Cambridge (Trinity College) 2019 – 2021: leave for mandatory national service BA+MMath; Part II (2022): Class I, rank: 1 st /243; Part III (2023): Distinction, rank: 1 st /282	2017 – 2023
	Seoul National University Left after one semester; Major in Mathematics	2017
Research	Rational surgery exact triangles in Heegaard Floer homology. arXiv:2601.06654	
	Khovanov homology can distinguish exotic Mazur manifolds. arXiv:2510.10809	
	Spectral sequences in unoriented link Floer homology. arXiv:2505.01914	
	An unoriented skein exact triangle in unoriented link Floer homology. arXiv:2501.01047	
Invited Talks	AMS Special Session on Topology, Gauge Theory, and Special Geometric Structures	Mar 2026
	AMS Special Session on Sheaf-Theoretic and Floer-Theoretic Approaches to Contact and Symplectic Topology	Mar 2026
	Joint IAS/Princeton University Symplectic Geometry Seminar	Nov 2025
	London Low Dimensional Topology Seminar (online)	Nov 2025
	Stanford University, Topology Seminar	Oct 2025
	California Institute of Technology, Geometry & Topology Seminar	Oct 2025
	ICTP Conference on Modern Developments in Low-Dimensional Topology	June 2025
	Duke University, Geometry/Topology Seminar	May 2025
	University of Oregon, Topology/Geometry Seminar	Feb 2025
Selected Honors	Centennial Fellowship, Princeton University	2023 – 2027
	ILJU Fellowship, ILJU Academy and Culture Foundation	2023 – 2028
	Pure Mathematics Prize, University of Cambridge	2023
	Leslie Walshaw Award, Trinity College	2023
	Ver Heyden de Lancey Prize, Trinity College	2022
	Presidential Science Scholarship, Republic of Korea <i>2019 – 2021: leave for mandatory national service</i>	2017 – 2023
Service	Princeton University Student Topology Seminar Organizer (Spring 2024 , Fall 2024 , Spring 2025); Co-organizer (Fall 2025)	Spring 2024 – present
	Princeton University Topology Reading Seminar Co-organizer (Spring 2024 Khovanov homology and related topics); Organizer (Fall 2024 Topics in Heegaard Floer homology , Fall 2025 New constructions of closed 4-manifolds)	Spring 2024, Fall 2024, Fall 2025

International Mathematical Olympiad (IMO)
2019: Language Consultant; 2022, 2024, 2025: Coordinator

2019, 2022, 2024, 2025

KAIST Advanced Mathematics Camp
Teaching assistant; Probability and measure theory

2016

Languages

Korean (native), **English** (fluent), **Mandarin Chinese**, **Japanese** (漢検 準2級)