

Anthony Hojin Lee

Curriculum Vitae

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antleee7.github.io

Education

M.Sc., Mathematics. KAIST, Daejeon, South Korea	2025–2027 (expected)
B.Sc., Mathematics. Seoul National University, Seoul, South Korea	2021–2025

Awards and honors

NSF GRFP Honorable Mention, 2025
Dean's List, Spring 2024, Fall 2024
Joongdong High School Hall of Fame, top 1% Korean CSAT score, 2021

Papers and preprints

Derived categories of $K3$ surfaces, B.Sc. thesis. (2024)

Teaching

Basic Calculus I, Seoul National University	2022
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Undergraduate research projects

Moduli spaces of sheaves, Fourier-Mukai transforms, and Dehn twists. Advised by Jeongseok Oh.
Compact or finite volume Coxeter polytopes in hyperbolic n -space. Advised by Gye-Seon Lee.

Conferences participated

Geometric Langlands Masterclasses, University of Copenhagen	2025
AI for Mathematics Workshop on Formalization, KIAS	2024

Study groups and seminars

Algebra & Geometry of Spaces of Tensors and Applications, DGIST
Undergraduate Algebra & Geometry Seminar, Seoul National University
Graduate Algebraic Geometry Seminar, Seoul National University
Hyperbolic Geometry Seminar, Seoul National University
Study group on Nevanlinna theory, KAIST
Study group on characteristic classes, Seoul National University (funded approx. \$380)

Organization

SNU Experimental Geometry Lab	2023–2024
<ul style="list-style-type: none">Founded a student-led mathematics club focused on geometry projects beyond the scope of undergraduate mathematics, with over 15 active members. Advised by Gye-Seon Lee.Projects: Interactive code for generating a Penrose tiling with a single complex input, based on N. J. de Bruijn's theory of pentagrids. The visualisation of limit points of iterated hyperbolic reflections. Seminars on aperiodic tilings, matrix Lie groups and hyperbolic reflection groups.	

Additional experience

K-12 Private Tutor

- 1 student, Korean CSAT calculus, top 23% student resulted in top 4% nationwide. 2023.
- Multiple students at private educational institute, 10-11th grade mathematics, 2022.

Amateur Guitar Player

- College of Natural Sciences Band, 2021-2023.
- School of Earth and Environmental Sciences Band, 2022.