

Taeuk Nam - Curriculum Vitae

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Positions

2026 - 2027 **Max Planck Institute for Mathematics**
1 year Postdoc, mentored by Dennis Gaitsgory

Education

2020 - 2026 **Harvard University**
Ph.D. in Mathematics, advised by Dennis Gaitsgory
2016 - 2020 **University of British Columbia**
Bachelor of Science, Honours in Mathematics

Papers

- "Tamely Ramified Geometric Langlands Correspondence". In progress.
- "Iwahori Fundamental Local Equivalence". Submitted. Available at [arXiv:2608.04207](https://arxiv.org/abs/2608.04207).
- " $D(Bun_G^I)$ is Compactly Generated". Submitted. Available at [arXiv:2411.03057](https://arxiv.org/abs/2411.03057).

Papers from Undergrad

- "Space of Generators for Matrix Algebras with Involution" (joint with Cindy Tan and Ben Williams), *Linear and Multilinear Algebra*, Volume 71, Issue 8, 2023. Available at [arXiv:1912.03027](https://arxiv.org/abs/1912.03027).
- "Singularities of Intertwining Operators and Decompositions of Principal Series Representations" (joint with Avner Segal and Lior Silberman), *Journal of Lie Theory*, Volume 30, Issue 4, 2020. Available at [arXiv:1811.00803](https://arxiv.org/abs/1811.00803).

Invited Talks

- "Applications of Geometric Langlands", Part III of Three Part Lecture Series on Geometric Langlands at the University of British Columbia in Vancouver, August 2026.
- "The Geometric Langlands Program", Part II of Three Part Lecture Series on Geometric Langlands at the University of British Columbia in Vancouver, August 2026.
- "Preliminaries for Geometric Langlands", Part I of Three Part Lecture Series on Geometric Langlands at the University of British Columbia in Vancouver, August 2026.
- "Categorical Trace and Geometric Langlands" at the CMS Special Session on Automorphic Forms and Representations in Saint John, June 2026.
- " Bun_G and the Hecke Action" at Hot Topics: Geometric Langlands Conjecture hosted at SLMath in Berkeley, April 2026.
- "Tamely Ramified Geometric Langlands" at CASL hosted at Northeastern in Boston, June 2025.
- "Tamely Ramified Geometric Langlands" at the MPI-Oberseminar at MPIM in Bonn, April 2025.

- “Constructible Sheaves on Stacks” at the ISM Discovery School on Langlands Correspondence for Spherical Varieties hosted at McGill in Montreal, October 2023.

Teaching Experience

- Teaching Fellow for Math 21b: Linear Algebra and Differential Equations at Harvard, Spring 2026.
- Teaching Fellow for Math 21b: Linear Algebra and Differential Equations at Harvard, Fall 2023.
- Teaching Fellow for Math 99r: Tutorial on Moduli Problems and Stacks at Harvard, Fall 2022.
- Teaching Fellow for Math 25b: Honors Linear Algebra and Real Analysis II at Harvard, Spring 2022.
- Participant in TUMS Teaching Undergraduate Mathematics at Harvard, Spring 2021.
- Teaching Assistant for Math 121: Honours Integral Calculus at UBC, Spring 2020.
- Teaching Assistant for Math 120: Honours Differential Calculus at UBC, Fall 2019.
- Teaching Assistant for Science One Mathematics at UBC, Fall 2017 - Spring 2019.

Mentorship

- Ari Krishna: Beilinson-Bernstein Localization (Directed Reading Program, 2025)
- Alvan Caleb Arulandu: Intro to Category Theory (Directed Reading Program, 2024)
- Edwin Gamez Hernandez: Representation Theory of Finite Groups (Directed Reading Program, 2023)
- Rushil Mallarapu: Perverse Sheaves in Geometric Representation Theory (Directed Reading Program, 2023)
- Dora Woodruff: Algebraic Geometry using Functor of Points (Directed Reading Program, 2022)

Leadership and Outreach

- Social Coordinator for the Harvard Graduate Residence Halls Council, 2022 - 2024.
- Co-organizer for Real Representations (Harvard Math Department affinity group for under-represented and marginalized identities in math), 2023 - 2024.
- Co-organizer for the Infinity Categories learning seminar at Harvard, 2022.
- Officer of the UBC Undergraduate Mathematics Society, 2019 - 2020.