Curriculum Vitae - Sehun Jeong

Contact Information

Department of Mathematics
Claremont McKenna College
850 Columbia Avenue
Claremont, CA 91711

Phone: (909) 607 - 5006
Email: sehjeong@cmc.edu

Education

Ph.D. in Mathematics, August 2025
Claremont Graduate University
Advisor: Professor Lenny Fukshansky
Thesis: Diophantine avoidance, number fields, and quadratic forms

M.S. in Mathematics, 2017
California State University, Long Beach

B.S. in Mathematics, 2014
University of California, Irvine

Professional Experience

Visiting Assistant Professor
Claremont McKenna College, July 2025 - present

Teaching Assistant
Claremont McKenna College, August 2023 - May 2025
Claremont Graduate University, September 2024 - December 2024

Grader
Claremont McKenna College, August 2023 - May 2025
Pitzer College, February 2025 - May 2025
Pomona College, September 2021 - May 2025

Other Experience

Private Tutor, June 2010 - present

Researh Interests

Algebraic number theory, geometry of numbers, theory of height functions, lattice theory, arithmetic of quadratic forms, Diophantine approximation

Publications

1. (with Lenny Fukshansky) Diophantine avoidance and small-height primitive elements in ideals of number fields, *Combinatorics and Number Theory*, vol. 13 no. 4 (2024) pg. 333-350
2. (with Lenny Fukshansky) Integral zeros of quadratic polynomials avoiding sublattices, *The Ramanujan Journal*, vol. 66 no. 2 (2025), Paper no. 26, 10 pp.

Honors, Awards, Scholarships

Peeler Endowed Fellowship, *Claremont Graduate University*, F22, S23
Math Fellowship, *Claremont Graduate University*, F20, S21, F21, S22
Honors in Mathematics, *University of California, Irvine*, June 2014

Given Talks

Integral quadratic forms and lattice angles
Southern California Discrete Mathematics Symposium, Irvine, CA, April 6, 2025

Primitive elements in number fields and Diophantine Avoidance
Number Theory Seminar at University of California, Irvine, Irvine, CA, October 10, 2024

Primitive elements in number fields and Diophantine Avoidance
2024 Langenhop Lecture & Southern Illinois University Conference, Carbondale, IL, May 16-17, 2024

Courses Taught

Fall 2025
MATH 30: Calculus I, *Claremont McKenna College*, Instructor

Spring 2025
MATH 172: Abstract Algebra II: Galois Theory, *Claremont McKenna College*, Teaching Assistant, Grader
MATH 163: Quantum Computation, *Claremont McKenna College*, Grader
MATH 140: Algebraic Topology, *Pitzer College*, Grader
MATH 67: Vector Calculus, *Pomona College*, Grader
MATH 31: Calculus II, *Claremont McKenna College*, Grader

Fall 2024
MATH 389: Computation Topology (advanced topic), *Claremont Graduate University*, Teaching Assistant, Grader
MATH 171: Abstract Algebra I, *Claremont McKenna College*, Teaching Assistant, Grader
MATH 55: Discrete Mathematics, *Claremont McKenna College*, Grader
MATH 31: Calculus II, *Claremont McKenna College*, Grader

Spring 2024
MATH 175: Number Theory, *Claremont McKenna College*, Teaching Assistant, Grader
MATH 31: Calculus II, *Claremont McKenna College*, Grader

Fall 2023
MATH 195: Coding Theory (advanced topic), *Claremont McKenna College*, Teaching Assistant
MATH 140: Modern Geometry, *Claremont McKenna College*, Grader
MATH 31: Calculus II, *Claremont McKenna College*, Grader

Fall 2021
MATH 189B: Calculus of Variation and Optimization (advanced topic), *Pomona College*, Grader