

CURRICULUM VITAE

Vadim Semenov

E-mail 1: vs1292@nyu.edu,

E-mail 2: mr.vadimsemenov@gmail.com

Webpage: <https://v-semenov.com>

Telegram: <https://t.me/vadimmath>

Primary research interests: Geometric Analysis, Convex Geometry

Secondary research interests: Optimal Mass Transport, Partial Differential Equations

Positions:

- 2024— LFZ Assistant Professor, Brown University.
- 2023—2024 Visiting Assistant Professor, New York University, Courant Institute of Mathematical Sciences.

Education:

- 2017—2023 Ph. D. in Mathematics, New York University, Courant Institute of Mathematical Sciences. Advisors: Deane Yang, Gaoyong Zhang.
- 2013—2017 B. Sc. in Mathematics, New York University, Courant Institute of Mathematical Sciences.

Papers and preprints:

- *The Gauss Image Problem with Weak Alexandrov Condition* (Accepted J. Funct. Anal., 2024) [[arXiv:2210.16778](https://arxiv.org/abs/2210.16778)]
- *The Discrete Gauss Image Problem* (Submitted, 2022) [[arXiv:2210.16974](https://arxiv.org/abs/2210.16974)]
- *The Uniqueness of the Gauss Image Measure* (Submitted, 2023) [[arXiv:2305.01779](https://arxiv.org/abs/2305.01779)]

Invited Talks:

- The Gauss Image Problem at LCDS Seminar, Brown University, February 2024.
- The Uniqueness of the Gauss Image Measure at Convex Geometry - Analytics Aspects, Cortona, Italy, July 2023.
- The Gauss Image Problem at Analysis Seminar, Syracuse University, April 2023.
- Introduction to Convex Geometry: Minkowski type Problems and associated Geometric Inequalities at GSIMS Seminar at MS Seminar, New York University, March 2023.

- Introduction to Convex Geometry: Minkowski type Problems and associated Geometric Inequalities at GSIMS Seminar, Lehigh University, March 2023.
- The Discrete Gauss Image problem at Discrete Math/Geometry Seminar, TU Berlin, February 2023.
- The Discrete Gauss Image problem at Copenhagen-Jerusalem Combinatorics Seminar, February 2023.
- The Discrete Gauss Image problem at Harmonic Analysis Methods in Geometric Tomography, ICERM, Brown University, September 2022.

Link to the recording: https://icerm.brown.edu/video_archive/?play=2967

Teaching:

- APMA 1650, Statistical Inference I, Spring 2025 at Brown University.
- APMA 1650, Statistical Inference I, Fall 2024 at Brown University.
- MATH-UA.343.004 Algebra, Spring 2024 at NYU.
- MATH-UA.343.005 Algebra, Spring 2024 at NYU.
- MATH-UA.248 Theory of Numbers, Fall 2023 at NYU.
- MATH-UA.343 Algebra, Fall 2023 at NYU.
- MATH-UA.329 Honors Analysis II, Spring 2023 (Teaching Assistant) at NYU.
- MATH-UA.328 Honors Analysis I, Spring 2023 (Teaching Assistant) at NYU.
- MATH-UA.328-002, Honors Analysis I, Fall 2022 (Teaching Assistant) at NYU.
- MATH-UA.148-002, Honors Linear Algebra I, Fall 2022 (Teaching Assistant) at NYU.
- MATH-UA.325-011, Analysis I, Spring 2022 (Teaching Assistant) at NYU.
- MATH-UA.325-012, Analysis I, Spring 2022 (Teaching Assistant) at NYU.
- MATH-GA.2430-001 Real Variables I, Fall 2021. (Teaching Assistant) at NYU.
- MATH-UA.325-002, Analysis I, Fall 2021 (Teaching Assistant) at NYU.
- MATH-UA.325-003, Analysis I, Fall 2021 (Teaching Assistant) at NYU.

Service:

- Organizing Mass Transport Student Seminar, Spring 2023

Grants and Awards:

- MacCracken Fellowship, 2017-2022
- Mathematics Award for Academic Achievement at Courant Institute of Mathematical Sciences, 2018

Students Supervised:

- Vu Nguyen (Summer 2024).

Last updated August 8, 2024.