Daniil Glukhovskiy

contact

Department of Mathematics
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education

Stony Brook University — 2021 – current
Ph.D., Mathematics — expected 05/2027
Advisor: Theodore D. Drivas, Co-Advisor: Boris A. Khesin

New York University — 2017 – 2021
B.A., Mathematics with Honors, minor in Physics — GPA: 3.85/4.0

academic visits

4. *Duke University, NC* — 10/2026
   Host: Tarek Elgindi — 1 week
3. *New York University, NY*, Computer Science and Engineering Department — 06/2026 – 08/2026
   Host: Pavel Izmailov — 3 months
2. *Chalmers University of Technology, Sweden* — 11/2025
   Host: Klas Modin — 1 week
1. *Universiteit van Amsterdam, Netherlands* — 09/2025–12/2025
   Host: Erwin Luesink — 3 months

publications

4. T.D. Drivas, D. Glukhovskiy
   Rapidly oscillating constraints and stabilization of Rayleigh–Taylor instability, *in preparation*
3. T.D. Drivas, D. Glukhovskiy
   Geometry of strong forces in continuum mechanics,
   57 pp., *submitted* (2026)
   arXiv:2607.27165
2. T.D. Drivas, D. Glukhovskiy, and B. Khesin,
   Pensive billiards, point vortices, and the silver ratio,
   Forum of Mathematics, Sigma, Vol. 13:e171 (2025), 1-32
   arXiv:2408.03279
1. T.D. Drivas, D. Glukhovskiy, and B. Khesin,
   Singular vortex pairs follow magnetic geodesics,
   International Mathematics Research Notices, 2024:14 (2024), 10880-10894
   arXiv:2401.08512

awards

- SUNY Research Foundation Academic Fellowship — 2021–2025
- IMO Team Selection Camp — 2016
- Gold Medal, *All-Russia Math Olympiad* — 2016

teaching

Stony Brook University

Teaching Assistant for Calculus II, Calculus B, Advanced Linear Algebra, Honors Analysis, Grader for Graduate Analysis, Computer-Assisted Problem Solving, History of Mathematics — 2021 – 2025

New York University

Tutor for Calculus, Analysis and Linear Algebra — 2019 – 2021

invited talks

9. Hamiltonian Systems Seminar (Online), University of Toronto, *(scheduled)* — 11/2026
8. Applied Math and Analysis Seminar, Duke University, North Carolina — 10/2026
7. Current Trends in Fluid Dynamics, University of Maryland, Maryland — 04/2026
6. Fluids seminar, Chalmers University of Technology, Sweden — 11/2025
5. UvA Analysis Seminar, Universiteit van Amsterdam, Netherlands — 10/2025
4. Long-time Dynamics in Random and Deterministic Systems, EPFL, Switzerland — 09/2025
3. Harmonic Analysis and PDE seminar, CUNY, New York — 10/2024
2. Hamiltonian Systems Seminar (Online), University of Toronto — 05/2024
1. Infinite-Dimensional Geometry and Fluids, BIRS Workshop, Banff, Canada — 10/2023

outreach/ service

- Reviewer for *Nonlinearity*
- Graduate Student Seminar organizer, Stony Brook — 2022 – 2023
- Directed Reading Program mentor, Stony Brook — 2022, 2024
- Math Circle Instructor, Moscow School # 57, Moscow, Russia — 2015 – 2017

code

Python (numpy/scipy/pandas), MATLAB, git, *Mathematica*, LaTeX