Artyom Lisitsyn

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Education and Experience

Iliad Intensive, California, USA	**Intensive Participant** : 10/2026
MPI MiS, Leipzig, Germany	**Visiting Researcher** : 06/2026 - 08/2026
UC Davis, California, USA	**Physics PhD** : 09/2024 - Ongoing
ETH Zurich, Switzerland	**Physics MSc** : 09/2022 - 05/2024
University of Edinburgh, UK	**Mathematical Physics BSc** : 09/2019 - 06/2022

Publications:

- *A mathematical perspective on non-planar on-shell diagram forms*
  with L. Pratt, M. Sherman-Bennett, J. Trnka; arXiv:2610.10041
- *Grassmannian Geometries for Non-Planar On-Shell Diagrams*
  with U. Oktem, M. Sherman-Bennett, J. Trnka; arXiv:2512.25005
- *Higher-genus fay-like identities from meromorphic generating functions*
  with K. Baune, J. Broedel, E. Im, and Y. Moeckli; arXiv:2409.08208
- *Schottky–Kronecker forms and hyperelliptic polylogarithms*
  with K. Baune, J. Broedel, E. Im, and F. Zerbini; arXiv:2406.10051

Talks:

- Max Planck Institute for Mathematics in the Sciences / Seminar on Nonlinear Algebra
  - *What you need to know about the Jacobian conjecture* - July 2026
- Max Planck Institute for Mathematics in the Sciences / Positive Geometry Seminar
  - *Hypertree divisors and non-planar on-shell diagrams* - June 2026
- UC Berkeley / Physics & Combinatorics Meeting
  - *The positive geometry of six points in the plane* - December 2025
- UC Los Angeles / California Amplitudes Fall 2025
  - *Non-planar on-shell diagrams at MHV* - November 2025
- SwissMAP Conference / The Amplituhedron: Structure, Combinatorics, and Positive Geometry
  - *Geometry of non planar on shell diagrams* - July 2025

Teaching:

- In the Physics Department at UC Davis
  - (09/2026 - 12/2026) Lead for TA Training Workshop
  - (04/2026 - 07/2026) Associate Instructor
  - (01/2026 - 03/2026) Lead Teaching Assistant
  - (09/2025 - 12/2025) Lead for TA Training Workshop
  - (09/2024 - 08/2025) Teaching Assistant
- (02/2023 - 05/2023) Teaching Assistant in the Institute for Theoretical Physics at ETH Zurich

Organization:

- (09/2026 - Present) Organizer of LLM Reading Group at UC Davis
  - Leading a group of ~15 physics graduate students to learn more about LLMs
  - Giving weekly lectures recapping content from the Iliad intensive
  - Leading the writing of a “Physics Grad LLM Statement” to influence department policy
  - Preparing speakers to represent graduate students at a faculty retreat on AI policy
- (07/2026) Organizer of Special Positive Geometry Seminar at MPI MiS
  - Organizing a full-day event with discussion and presentations at the intersection of physics and mathematics, particularly in the emergent subfield of positive geometry
- (03/2025 - 01/2026) Organizer of Graduate Student QMAP Journal Club
  - Organizing a weekly journal club for graduate students in the Center for Quantum Mathematics and Physics at UC Davis