# CURRICULUM VITAE

## Ekaterina Bogdanova

**Personal data:** Born in Moscow, Russia, November 11, 1999.

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### Education:

- 2017 — 2021   B. S.   National Research Institute Higher School of Economics, Faculty of Mathematics
- 2021 — present   Ph. D.   Harvard University

### Employment:

- 2020 — 2021   Research intern at HSE – Skoltech International Laboratory of Representation Theory and Mathematical Physics

### Research:

- *On the Bezrukavnikov-Kaledin quantization of symplectic varieties in characteristic p.* Joint work with Vadim Vologodsky. Published in *Compositio Mathematica.*
  https://arxiv.org/abs/2011.08259
- *The canonical global quantization of symplectic varieties in characteristic p.* Joint with Dmitry Kubrak and Roman Travkin
  https://arxiv.org/abs/2211.17261
- *Local systems with restricted variation on the formal punctured disc via factorization*
  https://arxiv.org/abs/2411.05297
- *Non-vanishing of quantum geometric Whittaker coefficients*
  https://arxiv.org/abs/2508.19058
- *Quantum Betti geometric Langlands functor*

### Awards:

- William R. Hearst III Research Fellowship in Math, Harvard University 2023-2024
- Eric Cooper and Naomi Siegel Graduate Student Fellowship I, Harvard University 2023-2024
- James Mills Peirce Fellowship, Harvard University 2021
- Arnold scholarship, HSE University 2020 – 2021
- Increased State Academic Scholarship, HSE University 2018-2019

### Research talks:

- Northeastern, Conference on the Langlands program,
  - *Non-vanishing of twisted geometric Whittaker coefficients*, 2025
- University of Chicago, Representation theory seminar
  - *Non-vanishing of twisted geometric Whittaker coefficients*, 2025
- Perimeter institute, Mathematical Physics seminar
  - *Non-vanishing of twisted geometric Whittaker coefficients*, 2024
- CRM / Université de Montréal, D-modules, local systems, and applications conference
  - *Non-vanishing of twisted geometric Whittaker coefficients*, 2024
- Universität Heidelberg, Ramification in geometric Langlands and non-abelian Hodge theory conference
  - *Local systems with restricted variation on the formal punctured disc via factorization*, 2023
- UW Madison, Algebra and Algebraic Geometry Seminar
  - *Local systems with restricted variation on the formal punctured disc via factorization*, 2023

- Yale, Geometry, Symmetry and Physics
  - *Local systems with restricted variation on the formal punctured disc via factorization*, 2023
- HSE, Arnold's day
  - *p-adic integration on Abelian varieties*, 2021
- HSE, Representation theory seminar
  - *On the Kaledin-Bezrukavnikov quantization in characteristic p*, 2020
- HSE-UGA "Zoomerfest"
  - *On the Kaledin-Bezrukavnikov quantization in characteristic p*, 2020
- Lunts dacha seminar
  - *On the Kaledin-Bezrukavnikov quantization in characteristic p*, 2020

**Teaching:**

- Teaching fellow, Harvard:
  - Math 25b, Spring 2025
- Teaching fellow, Harvard:
  - Math 21a, Fall 2023
- Teaching Assistant, UC Berkeley:
  - Introduction to Derived Algebraic Geometry program, Summer 2023
- Teaching fellow, Harvard:
  - Math 21a, Spring 2023
- Teaching assistant, HSE:
  - Algebra-3, Fall 2019

**Service:**

- Mentor, MIT:
  - SPUR program, Summer 2025
- Referee for:
  - Advanced in Mathematics;
  - IMRN.