

CURRICULUM VITAE

Roman Krutowski

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Education:

- 2020 — Ph. D. Student University of California, Los Angeles, Department of Mathematics
- 2016 — 2020 B. S. National Research Institute Higher School of Economics, Faculty of Mathematics
- 2015 — 2019 M. S. Independent University of Moscow

Employment:

- 2015 — 2020 Math teacher at Gymnazium 1514
- 2017 — 2018 Math teacher at "Center of pedagogical mastership"
- 2018 — 2021 Editor at "Kvantik" journal
- 2018 — 2020 Research intern at International Laboratory of Mirror Symmetry

Research:

- Basic Cohomology of Caninocial Holomorphic Foliations on Complex Moment-Angle Manifolds. Joint work with Hiroaki Ishida and Taras Panov, *International Mathematics Research Notices* (2020)
<https://arxiv.org/abs/1811.12038>
- Dolbeault cohomology of complex manifolds with torus action. Joint work with Taras Panov
V. A. Rokhlin-Memorial. Topology, Geometry, and Dynamics V. A. Rokhlin-Memorial, Contemp. Math., 772 (2021)
<https://arxiv.org/abs/1908.06356>

Awards:

- Horn Moez Prize – 2020
- Stone Fellowship (UCLA) – 2020
- Arnold stipend 2019 – 2020
- Simons Foundation stipend 2019
- Möbius Contest 2018, nomination "Graduates and undergraduates", 2nd prize
- Dobrushin stipend (Fall 2017, Spring 2018)
- All-Russian Mathematical Olympiad (2014, 2015), 2nd prize
- Intel ISEF (2015, 2016), 2nd prize
- Moscow Mathematical Olympiad (2013), 1st prize

Research talks:

- IMSA, Irrational Fans in Physics and Mathematics
Basic Cohomology of Moment-Angle Manifolds
- "Toric Topology in Okayama 2019"
Basic Dolbeault cohomology of manifolds with torus action.
- "Topology, Geometry, and Dynamics: Rokhlin 100"
Basic cohomology of moment-angle manifolds
- MSU, Postnikov seminar
Basic de Rham cohomology of canonical foliations on moment-angle manifolds.

Schools and Conferences:

- "Toric Topology in Okayama 2019", Okayama, 18-22 November, 2019

- Toric Topology seminar, Osaka, 14 November, 2019
- "Japanese-Russian Seminar on Toric Topology and Homotopy Theory", Moscow, 26-27 August, 2019
- "Topology, Geometry, and Dynamics: Rokhlin 100", 19-23 August, Saint-Petersburg, 2019
- Summer school "Foliations and algebraic geometry", Grenoble, July 1-5, 2019
- Workshop Higher Dimensional Complex Geometry, Saarbrücken, April 1-4, 2019
- Algebra and Geometry, Yaroslavl', July 24-31, 2019
- Algebra and Geometry, Yaroslavl', July 25-31, 2017
- "Young Topologists Meeting", University of Copenhagen, Copenhagen, July 9-13, 2018
- "Young Topologists Meeting", KTH Royal institute of technology, Stockholm, July 3-7, 2017
- "Glances@Manifolds, Jagiellonian University, Krakow, July 2-6, 2018
- Summer school "Contemporary Mathematics", Dubna, July 19 - 30, 2018
- Summer school "Contemporary Mathematics", Dubna, July 19 - 30, 2016
- Summer school "Contemporary Mathematics", Dubna, July 18 - 29, 2015

Expository talks:

- HSE, Convex and Algebraic Geometry seminar
 - *Classification of Gorenstein Toric Del Pezzo Varieties*, 2019
- IUM, Algebraic K-theory seminar
 - *Quillen's theorems A and B*, 2018
- HSE, "Geometric structures" seminar
 - *Cohomology of moment-angle manifolds*, 2018
- MSU, Geometry and topology seminar
 - *Borel spectral sequence and Dolbeault cohomology*, 2018
- IUM, Index theorems seminar
 - *Cyclic and Hochschild homology*, 2017
- HSE, Low-dimensional topology seminar
 - *Loop theorem and Dehn's lemma*, 2017
- HSE, Student seminar
 - *Equivariant and Basic Cohomology*, 2018
 - *Properties of Todd genus*, 2017
 - *Introduction to Morse theory*, 2016

TAing:

- Teaching assistant, UCLA:
 - Math 33A, Summer 2021
 - Math 33A, Spring 2021
 - Math 121A, Winter 2020
 - Math 31AL, Fall 2020
- Teaching assistant, HSE:
 - Topology-1, Fall 2019
 - Topology-1, Fall 2018
 - Algebra-1, Fall 2018
 - Geometry-2, Spring 2018
 - Logic and Algorithms, Fall 2017
- Teaching assistant, IUM:
 - Differential equations, Fall 2019

- Topology-2, Fall 2018
- Analysis on manifolds, Fall 2018
- Topology-2, Spring 2018
- Topology-1, Fall 2017
- Geometry-1, Fall 2017