Artem Kotelskiy

Curriculum Vitae

Indiana University Math dept, 831 E 3rd Street Bloomington, IN, 47405

email: artofkot@iu.edu $homepage:\ artofkot.github.io$

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• Indiana University, Bloomington, USA. Zorn postdoctoral fellow.

2018 - present

EDUCATION

• Princeton University, Princeton, USA. Ph.D. in Mathematics. Advisor: Zoltán Szabó. 2013 - 2018

2008 - 2013

2013

• Lomonosov Moscow State University, Moscow, Russia. B.S. and M.S. in Mathematics. Advisor: Taras Panov.

AWARDS AND HONORS

• AMS-Simons travel grant.	2019-2022
• Graduate student teaching award, Princeton University.	2017
• 32nd Russian national mathematical Olympiad, 3rd prize.	2008
• Moscow Mathematical Olympiad, 1st and 2nd prizes.	2006, 2008
• President prize from the government of Russia.	2006, 2008

Publications and preprints	
• Thin links and Conway spheres. Joint with L. Watson and C. Zibrowius. In preparation.	2020
• The correspondence induced on the pillowcase by the earring tangle. Joint with G. Cazassus, C. Herald and P. Kirk. arXiv:2010.04320 (57 pages)	2020
• Khovanov invariants via Fukaya categories: the tangle invariants agree. Joint with L. Watson and C. Zibrowius. arXiv:2004.01619 (14 pages)	2020
• A mnemonic for the Lipshitz-Ozsváth-Thurston correspondence. Joint with L. Watson and C. Zibrowius. arXiv:2005.02792 (13 pages)	2020
• Immersed curves in Khovanov homology. Joint with L. Watson and C. Zibrowius. arXiv:1910.14584 (95 pages)	2019
• Bordered theory for pillowcase homology. Mathematical Research Letters 26, no. 5. arXiv:1707.07481 (35 pages)	2019
• Comparing homological invariants for mapping classes of surfaces. To appear in <i>Michigan Mathematical Journal</i> . arXiv:1702.04071 (52 pages)	2017

• Minimal and Hamiltonian-minimal submanifolds in toric geometry.

Journal of Symplectic Geometry 14, no. 2. arXiv:1307.8140 (13 pages)

SERVICE

SERVICE	
• Co-organizer of Topology Seminar, Indiana University.	2018-2020
• Co-organizer of the math department Colloquium, Indiana University.	2019-2020
• Co-organizer of graduate student Seminar in Symplectic Geometry, Indiana University.	2018-2019
• Referee for mathematical journals. Journal of Topology, Algebraic and Geometric Topology, Proceedings of the London Mathematical Society, Proceedings of the Royal Society of Edinburgh.	2018-present
Conference and Workshop talks	
• Gauge Theory, Geometry, and Low-Dimensional Topology. AMS special session, virtual.	March 2021
• Topology and Geometry of 3- and 4-manifolds. AMS special session, virtual.	March 2021
• Topology and geometry of group actions. HSE, Moscow, Russia.	November 2020
• Interactions of gauge theory with contact and symplectic topology in dimensions 3 and 4. BIRS workshop, virtual talk via zoom.	June 2020
• CRM's 50th anniversary workshop "Low-dimensional topology". CIRGET, Montréal, Canada.	September 2019
• Tehran Topology 2018. School of Mathematics, IPM, Tehran, Iran.	June 2018
• International Seminar on Toric Topology and Homotopy Theory. Steklov Mathematical Institute, Moscow, Russia.	June 2018
• Perspectives on bordered Heegaard Floer theory. CIRGET, Montréal, Canada.	May 2018
SEMINAR TALKS	
• Virtual Seminar on Gauge Theory	March 2021
• Princeton University, Princeton, USA. Topology Seminar, virtual talk via zoom.	November 2020
• Indiana University, Bloomington, USA. Colloquium, virtual talk via zoom.	November 2020
• Western Hemisphere Virtual Symplectic Seminar	October 2020
• Trends in Low-Dimensional Topology, virtual seminar.	May 2020
• University of British Columbia, Vancouver, Canada. Topology Seminar, virtual talk via zoom.	May 2020
• Caltech, Pasadena, USA. Joint LA Topology Seminar, virtual talk via zoom.	April 2020

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• Columbia University, New York, USA. Topology Seminar.	December 2019
• Princeton University, Princeton, USA. Topology Seminar.	December 2019
• Dartmouth College, Hanover, USA. Topology Seminar.	March 2019
• Michigan State University, Lansing, USA. Topology Seminar.	October 2018
• University of British Columbia, Vancouver, Canada. Topology Seminar.	September 2018
• University of Georgia, Athens, USA. Topology Seminar.	August 2018
• Indiana University, Bloomington, USA. Topology Seminar.	January 2018
• Caltech, Pasadena, USA. Geometry and Topology Seminar.	November 2017
• Rutgers University, New Brunswick, USA. Geometry and Topology Seminar.	November 2017
• Columbia University, New York, USA. Symplectic Geometry, Gauge Theory, and Categorification Seminar.	November 2017
• MIT, Cambridge, USA. Geometry and Topology Seminar.	October 2017
• Stony Brook University, Stony Brook, USA. Topology and Symplectic Geometry / Math of Gauge Fields seminar.	September 2017
TEACHING AND WORK EXPERIENCE	
• Modern techniques in knot theory, Indiana University. Graduate course, fully online.	Spring 2021
• Calculus I, Indiana University. Two 60 students sections, fully online.	Fall 2020
• Linear Algebra and Applications, Indiana University. One 50 students section.	Spring 2020
• Calculus I, Indiana University. Two 60 students sections.	Fall 2019
• Brief Survey of Calculus, Indiana University. One 75 students section.	Spring 2019
• Brief Survey of Calculus, Indiana University. Two 75 students sections.	Fall 2018
• Linear Algebra with Applications, Princeton University. One 25 students section.	Fall 2015
• Review sessions for Linear Algebra and Calculus, Princeton University.	2016 - 2017
• Online math-education platform Evarist, side project. www.evarist.org/course/mathan/ We teach there analysis with proofs exclusively through problem solving.	2015 – present

Miscellaneous

- Languages: English, Russian, Armenian.
- Programming skills: web and python.
 - Built an online platform for learning math, see code.
 - Implemented a python package to work with type DA bimodules.
- Interests: blockchain, Ethereum, game go (2dan), chess, volleyball, table tennis.