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	
• 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	
• 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
• 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	
TEACHING AND WORK EXPERIENCE • Calculus I, Indiana University. Two 60 students sections, fully online.	Fall 2020
• Calculus I, Indiana University.	Fall 2020 Spring 2020
 Calculus I, Indiana University. Two 60 students sections, fully online. Linear Algebra and Applications, Indiana University. 	
 Calculus I, Indiana University. Two 60 students sections, fully online. Linear Algebra and Applications, Indiana University. One 50 students section. Calculus I, Indiana University. 	Spring 2020
 Calculus I, Indiana University. Two 60 students sections, fully online. Linear Algebra and Applications, Indiana University. One 50 students section. Calculus I, Indiana University. Two 60 students sections. Brief Survey of Calculus, Indiana University. 	Spring 2020 Fall 2019
 Calculus I, Indiana University. Two 60 students sections, fully online. Linear Algebra and Applications, Indiana University. One 50 students section. Calculus I, Indiana University. Two 60 students sections. Brief Survey of Calculus, Indiana University. One 75 students section. Brief Survey of Calculus, Indiana University. 	Spring 2020 Fall 2019 Spring 2019
 Calculus I, Indiana University. Two 60 students sections, fully online. Linear Algebra and Applications, Indiana University. One 50 students section. Calculus I, Indiana University. Two 60 students sections. Brief Survey of Calculus, Indiana University. One 75 students section. Brief Survey of Calculus, Indiana University. Two 75 students sections. Linear Algebra with Applications, Princeton University. 	Spring 2020 Fall 2019 Spring 2019 Fall 2018
 Calculus I, Indiana University. Two 60 students sections, fully online. Linear Algebra and Applications, Indiana University. One 50 students section. Calculus I, Indiana University. Two 60 students sections. Brief Survey of Calculus, Indiana University. One 75 students section. Brief Survey of Calculus, Indiana University. Two 75 students sections. Linear Algebra with Applications, Princeton University. One 25 students section. 	Spring 2020 Fall 2019 Spring 2019 Fall 2018 Fall 2015

Miscellaneous

- Languages: English, Russian, Armenian.
- \bullet 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.