

# Artem Kotelskiy

*Curriculum Vitae*

*Indiana University  
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## EMPLOYMENT

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- **Indiana University**, Bloomington, USA. 2018 – present  
Zorn postdoctoral fellow.

## EDUCATION

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- **Princeton University**, Princeton, USA. 2013 – 2018  
Ph.D. in Mathematics. Advisor: Zoltán Szabó.
- **Lomonosov Moscow State University**, Moscow, Russia. 2008 – 2013  
B.S. and M.S. in Mathematics. Advisor: Taras Panov.

## AWARDS AND HONORS

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- **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

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- **Thin links and Conway spheres.** 2020  
Joint with L. Watson and C. Zibrowius. In preparation.
- **The correspondence induced on the pillowcase by the earring tangle.** 2020  
Joint with G. Cazassus, C. Herald and P. Kirk. arXiv:2010.04320 (57 pages)
- **Khovanov invariants via Fukaya categories: the tangle invariants agree.** 2020  
Joint with L. Watson and C. Zibrowius. arXiv:2004.01619 (14 pages)
- **A mnemonic for the Lipshitz-Ozsváth-Thurston correspondence.** 2020  
Joint with L. Watson and C. Zibrowius. arXiv:2005.02792 (13 pages)
- **Immersed curves in Khovanov homology.** 2019  
Joint with L. Watson and C. Zibrowius. arXiv:1910.14584 (95 pages)
- **Bordered theory for pillowcase homology.** 2019  
*Mathematical Research Letters* **26**, no. 5. arXiv:1707.07481 (35 pages)
- **Comparing homological invariants for mapping classes of surfaces.** 2017  
To appear in *Michigan Mathematical Journal*. arXiv:1702.04071 (52 pages)
- **Minimal and Hamiltonian-minimal submanifolds in toric geometry.** 2013  
*Journal of Symplectic Geometry* **14**, no. 2. arXiv:1307.8140 (13 pages)

## SERVICE

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- **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.** 2018-present  
*Journal of Topology, Algebraic and Geometric Topology,*  
*Proceedings of the London Mathematical Society,*  
*Proceedings of the Royal Society of Edinburgh.*

## CONFERENCE AND WORKSHOP TALKS

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- **Interactions of gauge theory with contact and symplectic topology in dimensions 3 and 4.** June 2020  
BIRS workshop, virtual talk via zoom.
- **CRM's 50th anniversary workshop "Low-dimensional topology".** September 2019  
CIRGET, Montréal, Canada.
- **Tehran Topology 2018.** June 2018  
School of Mathematics, IPM, Tehran, Iran.
- **International Seminar on Toric Topology and Homotopy Theory.** June 2018  
Steklov Mathematical Institute, Moscow, Russia.
- **Perspectives on bordered Heegaard Floer theory.** May 2018  
CIRGET, Montréal, Canada.

## SEMINAR TALKS

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- **Princeton University**, Princeton, USA. November 2020  
Topology Seminar, virtual talk via zoom.
- **Indiana University**, Bloomington, USA. October 2020  
Colloquium, virtual talk via zoom.
- **Trends in Low-Dimensional Topology**, virtual seminar. May 2020
- **University of British Columbia**, Vancouver, Canada. May 2020  
Topology Seminar, virtual talk via zoom.
- **Caltech**, Pasadena, USA. April 2020  
Joint LA Topology Seminar, virtual talk via zoom.
- **Columbia University**, New York, USA. December 2019  
Topology Seminar.
- **Princeton University**, Princeton, USA. December 2019  
Topology Seminar.
- **Dartmouth College**, Hanover, USA. March 2019  
Topology Seminar.
- **Michigan State University**, Lansing, USA. October 2018  
Topology Seminar.
- **University of British Columbia**, Vancouver, Canada. September 2018  
Topology Seminar.

- **University of Georgia**, Athens, USA. August 2018  
Topology Seminar.
- **Indiana University**, Bloomington, USA. January 2018  
Topology Seminar.
- **Caltech**, Pasadena, USA. November 2017  
Geometry and Topology Seminar.
- **Rutgers University**, New Brunswick, USA. November 2017  
Geometry and Topology Seminar.
- **Columbia University**, New York, USA. November 2017  
Symplectic Geometry, Gauge Theory, and Categorification Seminar.
- **MIT**, Cambridge, USA. October 2017  
Geometry and Topology Seminar.
- **Stony Brook University**, Stony Brook, USA. September 2017  
Topology and Symplectic Geometry / Math of Gauge Fields seminar.

## TEACHING AND WORK EXPERIENCE

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- **Calculus I**, Indiana University. Fall 2020  
Two 60 students sections, fully online.
- **Linear Algebra and Applications**, Indiana University. Spring 2020  
One 50 students section.
- **Calculus I**, Indiana University. Fall 2019  
Two 60 students sections.
- **Brief Survey of Calculus**, Indiana University. Spring 2019  
One 75 students section.
- **Brief Survey of Calculus**, Indiana University. Fall 2018  
Two 75 students sections.
- **Linear algebra with applications**, Princeton University. Fall 2015  
One 25 students section.
- **Review sessions for linear algebra and calculus**, Princeton University. 2016 – 2017
- **Online math-education platform Evarist**, side project. 2015 – present  
[www.evarist.org/course/mathan/](http://www.evarist.org/course/mathan/)  
We teach there analysis with proofs exclusively through problem solving.

## MISCELLANEOUS

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- **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.