Artem Kotelskiy

Curriculum Vitae

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Employment

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

Education

- **Princeton University**, Princeton, USA. 2013 – 2018
  Ph.D. in Mathematics. Advisor: Zoltán Szabó.
- **Lomonosow Moscow State University**, Moscow, Russia. 2008 – 2013
  B.S. and M.S. in Mathematics. GPA 4.97/5.00.
  Advisor: Taras Panov.

Publications and preprints

- **Bordered theory for pillowcase homology.** 2017
  arxiv:1707.07481
- **Comparing homological invariants for mapping classes of surfaces.** 2017
  arxiv:1702.04071
- **Minimal and Hamiltonian-minimal submanifolds in toric geometry.** Master thesis. 2016
  Journal of Symplectic Geometry **14**, no. 2, 431-448.
  arxiv:1307.8140

Conference and seminar talks

- **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.
- **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

- **Linear algebra with applications**, Princeton University. Fall 2015
  Did both lecturing and grading.
- **Review sessions for linear algebra and calculus**, Princeton University. 2016 – 2017
- **Online education platform evarist.org,** side project. 2015 – present
  We teach there analysis with proofs exclusively through problem solving.
  We also have a lecture series in cosmology.
- **IT company SmartDec**, analyst. 2012 – 2013
- **Moscow Institute of Open Education.** 2008 – 2013
  Senior teacher in the online lab of teaching math to talented children.
- **Organizing mathematical Olympiads in Moscow.** 2008 – 2011
- **Teaching in the evening mathematical circle of Moscow 57th school.** 2008 – 2009

Awards and honors

- **Graduate student teaching award**, Princeton University. 2017
  In recognition of outstanding teaching.
- **32nd Russian national mathematical Olympiad**, 3rd prize. 2008
- **Moscow Mathematical Olympiad**, 1st and 2nd prizes. 2006, 2008
  Also special prize for a beautiful geometric solution in 2006.
- **President prize from the government of Russia**, for extraordinary achievements. 2006, 2008
- **Sharygin Geometry Russian National and Moscow Olympiad** 2006, 2007, 2008
  2nd, 2nd and 1st prizes.
- **Tournament of Towns**, diploma of the winner. 2006, 2006, 2007

Conferences and summer schools attended

- **UCLA Topology workshop**, UCLA, Los-Angeles, USA. 2018
- **Georgia International Topology Conference**, UGA, Athens, USA. 2017
- **Floer homologies and topology of 4-manifolds**, University of Massachusetts, Amherst, USA. 2017
- **Gauge Theory and Categorification**, UCLA, Los-Angeles, USA. 2017
- **3-manifolds and Floer theories**, University of Regensburg, Germany. 2016
- **Low Dimensional Topology**, Rényi Institute, Budapest, Hungary. 2016
- **Perspectives in topology and geometry of 4-manifolds**, Dubrovnik, Croatia. 2016
- **Homological invariants in low-dimensional topology and geometry.** 2014
  Trinity College, Dublin, Ireland. The 10th William Rowan Hamilton workshop.

Miscellaneous

- **Languages:** English, Russian, Armenian.
- **Programming skills:** web (built www.evarist.org), python.
  www.github.com/artofkot
- **Tests:** GRE subject math 880/900, 94th percentile. TOEFL 107/120.
- **Interests:** blockchain, cryptoeconomics, decentralized applications,
  game go (2dan), chess, volleyball, table tennis.