# Artem Kotelskiy
*Curriculum Vitae*

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*Department of mathematics, 809*
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## EDUCATION

- **Princeton University**, Princeton, USA.                                     2013 – present
  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.** Preprint.                       2017
  arxiv.org/abs/1707.07481

- **Comparing homological invariants for mapping classes of surfaces.** Preprint.   2017
  arxiv.org/abs/1702.04071

- **Minimal and Hamiltonian-minimal submanifolds in toric geometry.** Master thesis.   2016
  Journal of Symplectic Geometry **14**, no. 2, 431-448.
  arxiv.org/abs/1307.8140

## INVITED TALKS

- **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

- **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.

## References

- Prof. Zoltán Szabó, Princeton University.
  szabo@math.princeton.edu

- Prof. Peter Ozsváth, Princeton University.
  petero@math.princeton.edu

- Prof. Robert Lipshitz, University of Oregon.
  lipshitz@uoregon.edu

- Jennifer M. Johnson, Princeton University.
  jmjohnso@math.princeton.edu (teaching)