

# GRIGORY TERLOV

gterlov2@illinois.edu

September 2019

## EDUCATION

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- University of Illinois at Urbana-Champaign** *2018-present*  
Ph.D. in Mathematics (expected graduation May 2022)
- University of Wisconsin - Madison** *2016-2018*  
B.A. in Mathematics
- Lomonosov Moscow State University (Russia)** *2012-2014*  
Department of Mechanics and Mathematics

## RESEARCH INTERESTS

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**Theory of Probability:** Random graphs, Percolation theory, Random growth models, Stein's method, Stochastic processes (especially in random environments).

**Descriptive Set Theory:** Invariant random processes in connection with descriptive graph combinatorics and measured group theory.

## PUBLICATIONS AND PREPRINTS

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*Wave propagation for reaction-diffusion equations on infinite random trees.* (with Wai-Tong (Louis) Fan and Wenqing Hu). Submitted. <https://arxiv.org/abs/1907.12962>.

*On the Probability of Irreducibility of Random Polynomials with Integer Coefficients.* (2018) 10 pages. (available online: [sites.google.com/a/illinois.edu/gterlov/research/irreducibility](https://sites.google.com/a/illinois.edu/gterlov/research/irreducibility))

## RESEARCH TALKS

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- Speed of FKPP wave on infinite regular trees* *April 2018*  
UW-Madison Undergraduate Symposium.
- On the Probability of Irreducibility of Random Polynomials with Integer Coefficients* *April 2018*  
UW-Madison Undergraduate Symposium.
- On the Probability of Random Polynomials with Integer Coefficients Being Irreducible* *Jan. 2018*  
MAA General Contributed Paper Session on Probability and Statistics  
AMS Joint Mathematics Meeting 2018 in San Diego.

## EXPOSITORY TALKS

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- Introduction to Random Planar Maps* *Sept. 2019*  
UIUC Graduate Probability Seminar.
- Introduction to Percolation theory* *Jan. 2019*  
UIUC Graduate Probability Seminar.
- Zero-one laws of random graphs* *Dec. 2018*  
UIUC Logic Seminar.

*The Logic of Erdos-Renyi Random Graphs* Dec. 2017  
UW-Madison Graduate Logic Seminar.

*Random Walks on Graphs* Nov. 2017  
UW-Madison Undergraduate Math Club.

*About dynamical systems approach to Gauss-Kuzmin statistics of distributions of large integers in the continued fraction expansions of real numbers.* Nov. 2013  
Theory of Functions Seminar. Lomonosov Moscow State University.

## AWARDS AND FELLOWSHIPS

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GAANN grant fellowship Sept. 2018 - May 2019

University Book Store Academic Excellence Award April 2018  
For Undergraduate Research Project

UW-Madison Capstone Project Award April 2018

Selected High School Olympiads:

    Interuniversity Mathematical Olympiad March 2012

    Russian Sharygin Olympiad in Geometry April 2012

## EXTRA CURRICULAR ACTIVITIES IN MATHEMATICS

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Organizer of Graduate Probability Seminar, UIUC 2019-present

Referee for Russian Sharygin Olympiad in Geometry 2013,2014

## OTHER SKILLS

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**Languages:** Russian (native), English (Full professional proficiency).

**Programming:** C, C++, Wolfram Mathematica.

## AFFILIATIONS

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American Mathematical Society 2018-present

Mathematical Association of America 2017-present