

CURRICULUM VITAE

Dr. Leonid Alexandrovich Petrov.

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Date of birth: November 5, 1985.

Languages: English (fluent), Russian (native).

Citizenship: Russia.

Research interests: Probability, algebraic combinatorics, representation theory, population genetics.

Education:

Moscow High School No. 2, 1997–2002.

Lomonosov Moscow State University (Russia), Department of Mathematics and Mechanics, Chair of Probability theory, 2002–2007 (diploma with excellence).

Ph.D. studies: Institute for Information Transmission Problems (Moscow, Russia), 2007–2010.

Advisor: Grigori Olshanski.

Thesis “Markov Chains on Partitions and Infinite-Dimensional Diffusion Processes”, defended June 21, 2010.

Current employment:

Dobrushin Mathematics Laboratory at the Institute for Information Transmission Problems, research associate (permanent position), 2009–present.

Teaching:

Teacher of mathematics, Moscow High School No. 17, 2007–2008.

Lecturer and teaching assistant, “Math in Moscow” programme in English for international students at the Independent University of Moscow, 2011.

Scholarships, prizes, funding:

1. Federal stipendial program for excellent students of the Welfare Fund of V.Potanin (2005, 2006).
2. Alexander Kuznetsov/Independent University of Moscow graduate student scholarship (2009).
3. Silver prize-winner of The Fourteenth Moebius Contest (2010).
4. Dynasty foundation fellowship for young scientists (2010).
5. RFBR–CNRS grant 10-01-93114 “New models of Markov processes on point configurations. Applications to stochastic queueing networks” (2010–2012).

Conferences/schools/visits:

1. PROMYS summer program at Boston University for high school students, Boston, USA, 2001.

2. Summer School “Large N Limits” (with a talk), August 2008, Bitche, France.
3. PIMS/UBC School in Probability (with a talk), June 2009, UBC, Vancouver, Canada.
4. Summer School “Structures in Lie Representation Theory”, August 2009, Jacobs University, Bremen, Germany.
5. Midrasha Mathematicae: The Mathematics of Oded Schramm, December 2010, Hebrew University, Jerusalem, Israel.
6. Clay Institute Summer School “Probability and Statistical Physics in Two and more Dimensions”, July 2010, Buzios, Brazil.
7. Mathematics – XXI century. PDMI 70th anniversary (with a talk), September 2010, Saint Petersburg, Russia.
8. EURANDOM Workshop YEP VIII 2011 “Stochastic Models for Population Dynamics” (with a talk), March 2011, Eindhoven, Netherlands.
9. Visit to Alfréd Rényi Institute of Mathematics (with a couple of talks), May 2011, Budapest, Hungary.

Other academic activities:

My profile on MathOverflow: mathoverflow.net/users/979/leonid-petrov

Reviews for Zentralblatt Math (2009–present, 11 reviews).

Manuscript reviews for “Stochastic Processes and their Applications” (2010), “Functional Analysis and its Applications” (2011).

Opponent on Diploma thesis defence: Alexey Bufetov, “The central limit theorem for extremal characters of the infinite symmetric group” (Independent University of Moscow, Russia, 2011).

Papers:

- [8] *Non-existence of Determinantal Structure in Pfaffian Stochastic Dynamics of Strict Partitions*, in progress.
- [7] *On Measures on Partitions Arising in Harmonic Analysis for Linear and Projective Characters of the Infinite Symmetric Group* (2011), submitted.
- [6] *Pfaffian Stochastic Dynamics of Strict Partitions* (2010), arXiv:1011.3329 [math.PR], submitted.
- [5] *Random Strict Partitions and Determinantal Point Processes*, Electronic Communications in Probability 15 (2010), 162–175, arXiv:1002.2714 [math.PR].
- [4] *Random Walks on Strict Partitions*, Journal of Mathematical Sciences 168 (2010), no. 3, 437–463, arXiv:0904.1823 [math.PR].
- [3] *Limit Behavior of Certain Random Walks on Strict Partitions*, Russian Mathematical Surveys 64 (2009), no. 6, 1139–1141.
- [2] *A Two-parameter Family of Infinite-dimensional Diffusions in the Kingman Simplex*, Functional Analysis and Its Applications 43 (2009), no. 4, 279–296, arXiv:0708.1930 [math.PR].
- [1] *Asymptotic Behavior of a Certain Collection of Particles on a Line Under Synchronization*, Proceedings of the XXVIII Conference of Young Scientists of Department of Mechanics and Mathematics of the Lomonosov Moscow State University (2006), 152–156, in Russian.