

Kosygina, Elena

1. EDUCATION:

<u>Degree</u>	<u>Institution</u>	<u>Field</u>	<u>Dates</u>
Ph D	New York University	Mathematics	1999
Candidate of Science	Moscow State University	Physics and Mathematics	1995
Diploma (with distinction)	Moscow State University	Mathematics	1989

2. FULL-TIME ACADEMIC EXPERIENCE:

<u>Institution</u>	<u>Rank</u>	<u>Field</u>	<u>Dates</u>
Baruch College	Full Professor	Mathematics	August 27, 2013 - Present
CUNY Graduate Center	Doctoral Faculty	Mathematics	September 1, 2005 - Present
Baruch College	Associate Professor	Mathematics	January 1, 2008 - August 27, 2013
Baruch College	Assistant Professor	Mathematics	September 1, 2002 - December 31, 2007
Northwestern University	R. Boas Assistant Professor	Mathematics	September 1, 1999 - August 31, 2002

3. PART-TIME ACADEMIC EXPERIENCE:

<u>Institution</u>	<u>Rank</u>	<u>Field</u>	<u>Dates</u>
New York University	Visiting Professor	Mathematics	February 1, 2020 - March 31, 2020
Fields Institute, Toronto	Fields Research Fellow	Mathematics	November 22, 2019 - December 22, 2019
Sapienza – Università di Roma	Visiting Professor	Mathematics	October 1, 2019 - October 31, 2019
Centre International de Rencontres Mathématiques	Program Participant	Mathematics	May 23, 2017 - June 9, 2017
Mathematisches Forschungsinstitut Oberwolfach	Researcher, Program "Research in Pairs"	Mathematics	February 22, 2015 - March 20, 2015
Institut Mittag-Leffler, The Royal Swedish Academy of Sciences	Program Participant	Mathematics	October 1, 2014 - December 12, 2014
Fields Institute, Toronto	Program Participant	Mathematics	January 2, 2011 - January 29, 2011
Universität Tübingen	Guest Professor	Mathematics	April 27, 2009 - May 22, 2009
Institute for Advanced Study	Member	Mathematics	January 12, 2009 - April 12, 2009
Institut Henri Poincaré	Program Participant	Mathematics	September 3, 2008 - December 18, 2008

École Polytechnique Fédérale de Lausanne	Guest Researcher	Mathematics	June 23, 2008 - July 9, 2008
New York University	Research Assistant	Mathematics	September 1, 1994 - May 31, 1999
New York University	Teaching Assistant	Mathematics	September 1, 1994 - May 31, 1999
Moscow State University	Instructor	Mathematics	September 1, 1990 - June 30, 1991

4. NON ACADEMIC EXPERIENCE:

<u>Place of Employment</u>	<u>Title</u>	<u>Dates</u>
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5. EMPLOYMENT RECORD AT BARUCH:

<u>Rank</u>	<u>Dates</u>
Full Professor	August 27, 2013 - Present
Associate Professor	January 1, 2008 - August 27, 2013
Assistant Professor	September 1, 2002 - December 31, 2007

6. PUBLICATIONS IN FIELD OF EXPERTISE:

A. Books:

B. Papers in Professional Journals:

(1) Articles:

Elena Kosygina, Thomas Mountford, & Jonathon Peterson, *Convergence of random walks with Markovian cookie stacks to Brownian motion perturbed at extrema* Probability Theory and Related Fields 87 pp. (2021).

Elena Kosygina, Atilla Yilmaz, & Ofer Zeitouni, *Homogenization of a class of one-dimensional non-convex viscous Hamilton-Jacobi equations with random potential*, 45 Communications in Partial Differential Equations 32-56 (2020).

Andrea Davini & Elena Kosygina, *Homogenization of viscous and non-viscous HJ equations: a remark and an application*, 56 Calculus of Variations and Partial Differential Equations 21 pp. (2017).

Elena Kosygina & Martin P. W. Zerner, *A zero-one law for recurrence and transience of frog processes*, 168 Probability Theory and Related Fields 317 - 346 (2017).

Elena Kosygina & Jonathon Peterson, *Excited random walks with Markovian cookie stacks*, 53 Annales de l'Institut Henri Poincaré 1458 - 1497 (2017).

Elena Kosygina & Jonathon Peterson, *Functional limit laws for recurrent excited random walks with periodic cookie stacks*, 21 Electronic Journal of Probability 24 pp. (2016).

- Dmitry Dolgopyat & Elena Kosygina, *Excursions and occupation times of excited random walks*, 12 ALEA, Latin American Journal of Probability and Mathematical Statistics 427-450 (2015).
- Elena Kosygina & Martin P. W. Zerner, *Excursions of excited random walks on integers*, 18 Electronic Journal of Probability 1-25 (2014).
- Elena Kosygina, *Crossing speeds of random walks among "sparse" or "spiky" Bernoulli potentials on integers*, 152 Journal of Statistical Physics 213-236 (2013).
- Elena Kosygina & M. P. W. Zerner, *Excited random walks: results, methods, open problems*, 8 Bulletin of the Institute of Mathematics, Academia Sinica. New Series 1-53 (2013).
- Elena Kosygina & Thomas Mountford, *Crossing velocities for an annealed random walk in a random potential*, 122 Stochastic Processes and their Applications 277-304 (2012).
- Dmitry Dolgopyat & Elena Kosygina, *Scaling limits of recurrent excited random walks on integers*, 17 Electronic Communications in Probability 1-14 (2012).
- Elena Kosygina & Thomas Mountford, *Limit laws of transient excited random walks on integers*, 47 Annales de l'Institut Henri Poincaré 575-600 (2011).
- Elena Kosygina, Thomas S. Mountford, & Martin P.W. Zerner, *Lyapunov exponents of Green's functions for random potentials tending to zero*, 150 Probability Theory and Related Fields 43-59 (2011).
- Elena Kosygina & S.R.S. Varadhan, *Homogenization of Hamilton-Jacobi-Bellman equations with respect to time-space shifts in stationary ergodic medium*, 61 Communications on Pure and Applied Mathematics 816-847 (2008).
- Elena Kosygina & M. P. W. Zerner, *Positively and negatively excited random walks on integers, with branching processes*, 13 Electronic Journal of Probability 1952-1979 (2008).
- Elena Kosygina, *Brownian flow on a finite interval with jump boundary conditions*, 6 Discrete and Continuous Dynamical Systems, Series B 867-880 (2006).
- Elena Kosygina, F. Rezakhanlou, & S.R.S. Varadhan, *Stochastic homogenization of Hamilton-Jacobi-Bellman Equations*, 59 Communications on Pure and Applied Mathematics 1489-1521 (2006).
- Elena Kosygina, *On the Cauchy problem for the generalized porous medium equation*, 26 Communications in Partial Differential Equations 841-858 (2001).

Elena Kosygina, *The behavior of the specific entropy in the hydrodynamic scaling limit*, 29 The Annals of Probability 1086-1110 (2001).

Elena Kosygina, *The behavior of the specific entropy in the hydrodynamic scaling limit for Ginzburg-Landau model*, 7 Markov Processes and Related Fields 383-417 (2001).

Elena Kosygina, *Exact anisotropic solutions of a multidimensional equation of non-stationary flow in a porous medium*, 35 Computational Mathematics and Mathematical Physics 191-205 (1995).

Elena Kosygina, *On the propagation of perturbations in two-dimensional porous media*, 50 Moscow University Mathematics Bulletin 32-35 (1995).

Elena Kosygina, *The Cauchy problem in classes of growing functions for an equation with diffusion that slows with increasing density (Russian)*, 48 Matematicheskie Zametki 146-148 (1990).

Elena Kosygina, *Conditions for the solvability in the large of the first boundary value problem for some semi-linear parabolic equations*, 44 Moscow University Mathematics Bulletin 74-77 (1989).

(2) Proceedings:

Kosygina, E., Proceedings of the 14th and 15th Conferences of Young Scientists, dedicated to the 90th birthday of A. N. Kolmogorov, 71-75 (book), Moscow State University, "New exact solutions of the multidimensional nonlinear diffusion Equation (Russian)", published in proceedings. (1994).

Kosygina, E., Proceedings of the joint meetings of I.G. Petrovsky seminar and the Moscow Mathematical Society, Uspekhi Matematicheskikh Nauk, 49 (4) 98-99; translation in Russian Mathematical Surveys, 49(4), 98-99, "On the solvability of the Cauchy problem in the classes of growing functions for some non-linear degenerate parabolic equations (Russian)", published in proceedings. (1994).

C. Chapters in Books:

Elena Kosygina Homogenization of Stochastic Hamilton-Jacobi Equations: Brief Review of Methods and Applications 189-204, (Stochastic Analysis and Partial Differential Equations, Series of Contemporary Mathematics, Vol. 429, American Mathematical Society 2007).

D. Government Reports or Monographs:

E. Book Reviews:

Elena Kosygina, *Invited review of the monograph: Stroock, D. W., "Partial Differential Equations for Probabilists", Cambridge University Press, New York, 2008, xv+215*, Journal of American Statistical Association, 104 (492), pp. 1722-1723 (2009) (D. W. Stroock, Monograph)

7. OTHER PUBLICATIONS:

Elena Kosygina The behavior of the relative entropy in the hydrodynamic scaling limit, Ph. D. Thesis 1-113, (Courant Institute of Mathematical Sciences, New York University 1999).

Elena Kosygina Cauchy problem in classes of growing functions for equations of fast diffusion type (Russian) 1-89, (Dissertation for Candidate degree in Physics and Mathematics, Moscow State University 1995).

8. PRESENTED PAPERS, LECTURES, AND EXHIBITIONS AND PERFORMANCES:

Kosygina, E. (Presenter & Author), Mountford, T. (Author Only), Peterson, J. (Author Only), Probability and the City Seminar, "From generalized Ray-Knight theorems to functional CLTs for some models of self-interacting random walks on \mathbb{Z} ". (April 2, 2021).

Kosygina, E., CUNY GC MathFest, CUNY Graduate Center, New York, NY, "Excited Random Walks, or bribing with cookies". (November 13, 2020).

Kosygina, E., Davini, A., Workshop: Stochastic Analysis Related to Hamilton-Jacobi PDEs, Institute for Pure & Applied Mathematics, Los Angeles, CA, "Stochastic homogenization of a class of nonconvex viscous HJ equations in one space dimension PDF", Workshop, International, Invited. (May 19, 2020).

Kosygina, E., Analysis Seminar, Sapienza University of Rome, Rome, Italy, "Stochastic homogenization of viscous Hamilton-Jacobi equations with non-convex Hamiltonians: examples and open questions". (October 14, 2019).

Kosygina, E., CUNY GC MathFest, CUNY Graduate Center, New York, NY, "Excited Random Walks, or bribing with cookies". (November 2, 2018).

Kosygina, E., BMCC Mathematics Colloquium, BMCC, CUNY, New York, NY, "Excited Random Walks, or bribing with cookies". (October 23, 2018).

Kosygina, E., Random walks in correlated and dynamical environments, A&M University, College Station, TX, "On characterizing the behavior of self-interacting random walks on \mathbb{Z} from the local times", Workshop, International, Invited. (August 15, 2018).

Kosygina, E., Matic, I., Northwestern Summer School in Probability, Northwestern University, Evanston, IL, "Mini-course: Large Deviations through Examples". (July 2018).

- Kosygina, E., AMS Sectional Meeting, AMS, Northeastern University, Boston, MA, "Homogenization of a class of one-dimensional non-convex viscous Hamilton-Jacobi equations with random potential". (April 21, 2018).
- Kosygina, E., Classical and quantum motion in disordered environment, Queen Mary University of London, London, UK, "Homogenization of viscous Hamilton-Jacobi equations with non-convex Hamiltonian: examples and open questions", Conference, International. (December 22, 2017).
- Kosygina, E., 39-th Conference on Stochastic Processes and their Applications, Bernoulli Mathematical Society, Moscow, Russia, "Excited random walks in Markovian cookie environments on \mathbb{Z} ", Conference, International, Invited. (July 27, 2017).
- Kosygina, E., Random Walks in Random Environments, Centre International de Rencontres Mathématiques, Luminy, Marseille, France, "Homogenization of non-convex viscous HJ equations", Workshop, International, Invited. (May 26, 2017).
- Kosygina, E., Cornell Probability Seminar, Cornell University, Ithaca, "Excited random walks in markovian cookie environments on \mathbb{Z} ", Invited. (October 24, 2016).
- Kosygina, E., Probability Seminar, University of Wisconsin, Madison, "Homogenization of viscous Hamilton-Jacobi equations: a remark and an application", Invited. (September 23, 2016).
- Kosygina, E., Conference in Honor of the 75-th birthday of S.R.S. Varadhan, Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany, "Homogenization of viscous Hamilton-Jacobi equations: a remark and an application", Invited. (August 18, 2016).
- Kosygina, E., Workshop on Random Interacting Systems, University of Bath, Bath, UK, "Zero-one laws for recurrence and transience of frog processes", published elsewhere, Invited. (June 19, 2016).
- Kosygina, E., Workshop on percolation, spin glasses and random media, Northwestern University, Evanston, "Zero-one laws for recurrence and transience of frog processes", published elsewhere, Invited. (May 28, 2016).
- Kosygina, E., Courant Probability and Mathematical Physics Seminar, New York University, New York, "Excited random walks in markovian cookie environments on \mathbb{Z} ". (April 15, 2016).
- Kosygina, E., New Zealand Probability Workshop, University of Auckland, Paihia, New Zealand, "Excited random walks in markovian cookie environments on \mathbb{Z} ", Invited. (January 6, 2016).
- Kosygina, E., Probability seminar, Tuebingen University, Tuebingen, Germany, "Excited random walks in markovian cookie environments on \mathbb{Z} ". (July 20, 2015).

- Kosygina, E., Stochastic Analysis and Related Topics, Purdue University, West Lafayette, "Excited random walks in markovian cookie environments on \mathbb{Z} ". (May 20, 2015).
- Kosygina, E., CUNY Probability seminar, CUNY Graduate Center, New York, "Excited random walks in random cookie environments". (May 12, 2015).
- Kosygina, E., Probability and Mathematical Physics seminar, University of Arizona, Tucson, "Excited random walks in markovian cookie environments on \mathbb{Z} ". (April 15, 2015).
- Kosygina, E., AWM Research Symposium, Association for Women in Mathematics (AWM), University of Maryland, College Park, "Excited random walks in random cookie environments". (April 11, 2015).
- Kosygina, E., Random Motion in Random Media, Technical University Eindhoven and Eurandom, Eindhoven, Netherlands, "Remarks on a homogenization problem for stochastic HJB equations with a non-convex Hamiltonian", Workshop. (March 30, 2015).
- Kosygina, E., Control, Dynamics, and PDE, University of Rome, La Sapienza, Rome, Italy, "On the connection between large deviations of diffusions in random environments and homogenization of some stochastic Hamilton-Jacobi-Bellman equations", Seminar. (March 27, 2015).
- Kosygina, E., Probability Seminar (La Sapienza University, Rome), La Sapienza University, Rome, Italy, "Excited Random Walks in Random Cookie Environments on \mathbb{Z} ", Seminar. (March 25, 2015).
- Kosygina, E., Homogenization and Random Phenomenon, Institute Mittag-Leffler, Djursholm, Sweden, "On the connection between large deviations of diffusions in random environments and homogenization of some stochastic Hamilton-Jacobi-Bellman equations". (October 30, 2014).
- Kosygina, E., Mathematical Finance, Probability, and PDE seminar, Rutgers University, New Brunswick, NJ, "Excited random walks, or the "cookie" phenomenon", Invited. (September 2014).
- Kosygina, E., Women in Probability, Munich, Germany, "Excursions of excited random walks on integers.", Workshop, Invited. (June 14, 2014).
- Kosygina, E., Mathematics Department Research Seminar, Baruch College, "Excited random walks, or the "cookie phenomenon"". (May 2014).
- Kosygina, E., AMS Sectional Meeting, Baltimore, MD, "Excited random walks, or the "cookie" phenomenon", Conference, Invited, [ekosygina/present/AMSOpenProb-1.pdf](#). (March 30, 2014).
- Kosygina, E., Duke Probability Seminar, Duke University, Durham, "Excited random walks". (February 2013).

- Kosygina, E., Probability and Mathematical Physics Seminar, Courant Institute of Mathematical Sciences, NYU, New York, NY, "Crossing speeds of random walks among "sparse" and "spiky" Bernoulli potentials on integers". (February 2013).
- Kosygina, E., Random Networks & Environments Workshop, Boğaziçi University, Istanbul, Turkey, "On the speed of one-dimensional random walk conditioned to hit a remote location among Bernoulli potentials", Invited. (July 2012).
- Kosygina, E., Oberseminar Stochastik, Universität Tübingen, Tübingen, Germany, "On the speed of one-dimensional random walk conditioned to hit a remote location among Bernoulli potentials". (June 2012).
- Kosygina, E., Random Walks and Random Media Workshop, Mathematical Sciences Research Institute, Berkeley, "Excited random walks on the d-dimensional integer lattice", Invited. (May 2012).
- Kosygina, E., 33-d Midwest Probability Colloquium, Northwestern University, Evanston, "Crossing velocities for annealed random walks in a random potential", Invited. (October 2011).
- Kosygina, E., 40 Years and Counting: AWM's Celebration of Women in Mathematics, Brown University, Providence, "Limit laws of excited random walks on integers", Conference, Invited. (September 2011).
- Kosygina, E., A Conference in Honor of the 70th Birthday of S.R.S. Varadhan, National Taiwan University, Taipei, Taiwan, "Scaling limits of excited random walks on integers", Invited. (July 2011).
- Kosygina, E., Random Environments Conference, Cornell University, Ithaca, "Crossing velocities for annealed random walks in random potentials", Invited. (May 2011).
- Kosygina, E., Analysis and Probability Seminar, University of Connecticut, Storrs, "Scaling limits of excited random walks on integers". (April 2011).
- Kosygina, E., Probability Seminar, University of Toronto and Fields Institute, Toronto, "Crossing velocities for annealed random walks in random potentials". (January 2011).
- Kosygina, E., CUNY Probability Seminar, CUNY Graduate Center, New York, "Crossing velocities for annealed random walks in random potentials". (December 2010).
- Kosygina, E., Probability Seminar, University of Utah, Salt Lake City, "Crossing velocities for annealed random walks in random potentials". (December 2010).
- Kosygina, E., 73-d Annual Meeting of the Institute of Mathematical Statistics, Institute of Mathematical Statistics, Chalmers University of Technology, Gothenburg, Sweden, "Limit laws of transient excited random walks on integers", Invited. (August 2010).

- Kosygina, E., Mathematics Colloquium, Iowa State University, Ames, "Excited random walks on integers". (May 2010).
- Kosygina, E., Workshop on Deterministic and Stochastic Front Propagation, Banff International Research Station for Mathematical Innovation and Discovery, Banff, Canada, "On random walks in a random potential conditioned to hit a remote location", Invited. (March 2010).
- Kosygina, E., Probability Seminar, University of Utah, Salt Lake City, "Limit laws of excited random walks on integers". (November 2009).
- Kosygina, E., Probability Seminar, University of Maryland, College Park, "Limit laws of excited random walks on integers". (November 2009).
- Kosygina, E., CUNY Probability Seminar, CUNY Graduate Center, New York, "Limit laws of excited random walks on integers". (October 2009).
- Kosygina, E., Probability Seminar, University of Minnesota, Minneapolis, "Limit laws of excited random walks on integers". (October 2009).
- Kosygina, E., 33rd Conference on Stochastic Processes and their Applications, Bernoulli Society for Mathematical Statistics and Probability; Institute of Mathematical Statistics, Technische Universität Berlin, "Limit laws of excited random walks on integers", Invited. (July 2009).
- Kosygina, E., Mathematical Physics Seminar, Institute for Advanced Study, Princeton, "On Lyapunov exponents of Green's function for diffusions and random walks in a random potential". (February 2009).
- Kosygina, E., Institute Henri Poincaré, Paris, "Positively and negatively excited random walks on integers". (December 2008).
- Kosygina, E., Workshop on Random Walks, Particle Systems, and Random Media, Pontificia Universidad Católica de Chile, Santiago, Chile, "Positively and negatively excited random walks on integers". (January 2008).
- Kosygina, E., 32-nd conference Stochastic Processes and Applications, Bernoulli Society for Mathematical Statistics and Probability; Institute of Mathematical Statistics, Urbana-Champaign, "Homogenization of Hamilton-Jacobi-Bellman Equations with respect to time-space shifts in a stationary ergodic medium", Invited. (August 2007).
- Kosygina, E., CUNY Probability Seminar, City University of New York, New York, "Recent results about Multi-Excited Random Walks". (May 2007).
- Kosygina, E., Probability Seminar, University of Toronto, Toronto, "Homogenization of Hamilton-Jacobi-Bellman Equations with respect to time-space shifts in a stationary ergodic medium". (March 2007).

- Kosygina, E., Reaction-diffusion and Free Boundary Problems workshop, Banff International Research Station, Banff, Canada, "Homogenization of Hamilton-Jacobi-Bellman Equations with respect to time-space shifts in a stationary ergodic medium", International, Invited. (March 2006).
- Kosygina, E., Probability Seminar, University of Delaware, Newark, DE, "Homogenization of Stochastic Hamilton-Jacobi-Bellman Equations". (February 2006).
- Kosygina, E., Department of Mathematics Colloquium, University of Tuebingen, Tübingen, Germany, "Stochastic Homogenization of Hamilton-Jacobi Equations". (January 2006).
- Kosygina, E., International Conference "Large Scale Behavior of Interacting Particle Systems", Renyi Institute, Budapest, Hungary, "Homogenization of stochastic Hamilton-Jacobi equations with a time dependent Hamiltonian", Invited. (August 2005).
- Kosygina, E., Congress on Homogenization in Random Media, Centre International de Rencontres Mathématiques, Marseille, France, "Stochastic homogenization of Hamilton-Jacobi equation with a vanishing viscous term", Invited. (July 2005).
- Kosygina, E., Courant Institute Probability and Mathematical Physics Seminar, New York University, New York, "Homogenization of stochastic Hamilton-Jacobi equation with a vanishing viscous term". (March 2005).
- Kosygina, E., CUNY Probability Seminar, Graduate Center of the City University of New York, New York, "Homogenization of stochastic Hamilton-Jacobi equation with a vanishing viscous term". (February 2005).
- Kosygina, E., Computational and Applied Mathematical Program/Non-linear PDE's seminar, University of Chicago, Chicago, "Homogenization of stochastic Hamilton-Jacobi-Bellman equations". (January 2004).
- Kosygina, E., International Conference "Percolation, Particle Systems, and Random Media", Pontificia Universidad Católica de Chile, Santiago, Chile, "Homogenization of stochastic Hamilton-Jacobi equations". (January 2004).
- Kosygina, E., Caltech Analysis Seminar, California Institute of Technology, Pasadena, "On the homogenization of stochastic Hamilton-Jacobi equations with a vanishing viscosity term". (December 2003).
- Kosygina, E., Dynamical Systems Seminar, University of Maryland, College Park, "Homogenization of stochastic Hamilton-Jacobi equations". (November 2003).
- Kosygina, E., Workshop on connections between dynamical systems and PDEs, American Institute of Mathematics, Palo Alto, "Homogenization of stochastic Hamilton-Jacobi equations with a vanishing viscosity term". (July 2003).

- Kosygina, E., Columbia University Probability Seminar, Columbia University, New York, "The long term behavior of the Brownian flow with jumps". (February 2003).
- Kosygina, E., CUNY Probability Seminar, CUNY Graduate Center, New York, "The long term behavior of the Brownian flow with jumps". (November 2002).
- Kosygina, E., Sectional Meeting of the American Mathematical Society, University of Wisconsin, Madison, "Remarks on homogenization of Hamilton-Jacobi equations", Invited. (October 2002).
- Kosygina, E., Internship in Probability Program, University of Wisconsin, Madison, "The behavior of the relative entropy in the hydrodynamic scaling limit". (July 2002).
- Kosygina, E., Probability Seminar, Northwestern University, Evanston, "Homogenization of stochastic Hamilton-Jacobi equations". (May 2002).
- Kosygina, E., Probability Seminar, University of Wisconsin, Madison, "Homogenization of stochastic Hamilton-Jacobi equations". (April 2002).
- Kosygina, E., Mathematics Colloquium, University of Missouri, Rolla, "The long term behavior of the Brownian motion with jumps". (November 2001).
- Kosygina, E., Probability Seminar, Northwestern University, Evanston, "The long term behavior of the Brownian motion with jumps". (May 2001).
- Kosygina, E., UIUC Probability Seminar, University of Illinois at Urbana-Champaign, Urbana-Champaign, "The behavior of the relative entropy in the hydrodynamic scaling limit for the simple exclusion process". (September 2000).
- Kosygina, E., Probability Seminar, Northwestern University, Evanston, "The behavior of the relative entropy in the hydrodynamic scaling limit for the simple exclusion process". (January 2000).
- Kosygina, E., Mathematics Colloquium, Northwestern University, Evanston, "The behavior of the relative entropy in the hydrodynamic scaling limit". (February 1999).
- Kosygina, E., Southeastern Probability Days, Georgia Institute of Technology, Atlanta, "The behavior of the relative entropy in the hydrodynamic scaling limit for Ginzburg-Landau model". (April 1998).
- Kosygina, E., Joint Meetings of I.G. Petrovsky Seminar and the Moscow Mathematical Society, Moscow State University, Moscow, Russia, "On the solvability of the Cauchy problem in classes of growing functions for some degenerate parabolic equations". (January 1994).
- Kosygina, E., Conference of young scientists, Moscow State University, Moscow, Russia, "New exact solutions of the multidimensional nonlinear diffusion equation". (April 1993).