

Mathematics Opportunities

Math in Moscow Scholarship Program

The Math in Moscow program at the Independent University of Moscow is a semester-long, mathematically intensive program (in English) in the Russian tradition of teaching mathematics—the emphasis being on problem solving rather than memorizing theorems. With funding from the NSF, the AMS awards five scholarships each semester to US students. The deadlines for applications for the scholarship program are **March 30** for the fall and **September 30** for the spring semester. Information and application forms are available at www.mccme.ru/mathinmoscow. Application forms for the AMS scholarships are available at www.ams.org/programs/travel-grants/mimoscow.

—AMS Membership and Programs Department

*NSF Enriched Doctoral Training in the Mathematical Sciences

The Enriched Doctoral Training in the Mathematical Sciences Program of the National Science Foundation (NSF) supports efforts to enrich research training in the mathematical sciences at the doctoral level by preparing PhD students to recognize and find solutions to mathematical challenges arising in other fields and in areas outside today's academic setting. The deadline for proposals is

**The most up-to-date listing of NSF funding opportunities from the Division of Mathematical Sciences can be found online at: www.nsf.gov/dms and for the Directorate of Education and Human Resources at www.nsf.gov/dir/index.jsp?org=ehr. To receive periodic updates, subscribe to the DMSNEWS listserv by following the directions at www.nsf.gov/mps/dms/about.jsp.*

July 12, 2017. See www.nsf.gov/pubs/2014/nsf14589/nsf14589.htm.

—From a DMS announcement

*NSF-CBMS Regional Conferences 2017

With NSF support, the Conference Board of the Mathematical Sciences (CBMS) will hold seven Regional Research Conferences during the summer of 2017. Each five-day conference features a distinguished lecturer who delivers ten lectures on a topic of important current research in one sharply focused area. Support for about thirty participants is provided for each conference.

May 22–26, 2017: Sparse Approximation and Signal Recovery Algorithms. Anna C. Gilbert, lecturer. New Mexico State University. Organizers: Joseph D. Lakey, Jameson Cahill, and Nicholas Michalowski. See www.math.nmsu.edu/activities/cbms2017/cbms2017.html.

June 4–9, 2017: Nonlocal Dynamics: Theory, Computation, and Applications. Qiang Du, lecturer. Illinois Institute of Technology. Organizers: Jinqiao Duan and Xiaofan Li. See math.iit.edu/nonlocaldynamics.html.

June 12–17, 2017: Topological Data Analysis: Theory and Applications. Vin de Silva, lecturer. Macalester College. Organizers: Lori B. Ziegelmeier, Matthew Richey, and Matthew L. Wright. See pages.stolaf.edu/tda-conference/.

July 24–28, 2017: Tensors and Their Uses in Approximation Theory, Quantum Information Theory, and Geometry. J. M. Landsberg, lecturer. Auburn University. Organizer: Luke Oeding. See www.auburn.edu/~lao0004/cbms.html.

July 31–August 4, 2017: Topological and Geometric Methods in Quantum Field Theory. Dan Freed, lecturer. Montana State University. Organizers: David Ayala and Ryan E. Grady. See www.math.montana.edu/cbms/.

August 14–18, 2017: Bayesian Modeling for Spatial and Spatio-temporal Data. Alan E. Gelfand, lecturer. University of California Santa Cruz. Organizers: Athanasios Kottas, Rajarshi Guhaniyogi, and Bruno Sanso. See <https://cbms.soe.ucsc.edu/home>.

August 28–September 1, 2017: Dyson-Schwinger Equations, Topological Expansions and Random Matrices. Alice Guionnet, lecturer. Columbia University. Organizers: Ivan Corwin and Yi Sun. See www.math.columbia.edu/departments/probability/seminar/guionnet.html.

—From a CBMS announcement

*Call for Proposals for 2018 NSF-CBMS Regional Conferences

The NSF-CBMS Regional Research Conferences in the Mathematical Sciences are a series of five-day conferences, each of which features a distinguished lecturer delivering ten lectures on a topic of important current research in one sharply focused area of the mathematical sciences. Proposals should address the unique characteristics of the NSF-CBMS conferences, which can be found at www.cbmsweb.org/NSF/2018_call.htm. The deadline for full proposals is **April 28, 2017**.

—From a CBMS announcement

AWM Gweneth Humphreys Award

The Association for Women in Mathematics awards the Gweneth Humphreys Award annually to a mathematics teacher who has encouraged female undergraduate students to pursue mathematical careers and/or the study of mathematics at the graduate level. The deadline for nominations is **April 30, 2017**. See <https://sites.google.com/site/awmmath/programs/humphreys-award> or e-mail awm@awm-math.org.

—From an AWM announcement

Call for Applications for Rosenthal Prize

The National Museum of Mathematics awards the annual Rosenthal Prize for innovative mathematics teaching in upper elementary and middle schools. The deadline for applications is **May 24, 2017**. See momath.org/rosenthal-prize/.

—From a Museum of Mathematics announcement

Call for Nominations for the 2019 ICIAM Prizes

The ICIAM Prize Committee for 2019 calls for nominations for the five ICIAM Prizes to be awarded in 2019 (the Collatz Prize, the Lagrange Prize, the Maxwell Prize, the Pioneer Prize, and the Su Buchin Prize). Nominations are welcome from every part of the world.

A nomination should take into account the specifications for a particular prize; see www.iciam.org/iciam-prizes for additional information.

All nominations should be made electronically at <https://iciamprizes.org/>.

The deadline for nominations is **July 15th, 2017**.

—From an ICIAM announcement

Call for Nominations for the Ostrowski Prize, 2017

The aim of the Ostrowski Foundation is to promote the mathematical sciences. Every second year it provides a prize for recent outstanding achievements in pure mathematics and in the foundations of numerical mathematics. The value of the prize for 2017 is 100,000 Swiss francs (approximately US\$99,000).

The jury invites nominations for candidates for the 2017 Ostrowski Prize. Nominations are due by **May 15, 2017**.

See https://www.ostrowski.ch/index_e.php for further details.

—From a CMI announcement

News from IPAM

The Institute for Pure and Applied Mathematics (IPAM) is an NSF math institute located at the University of California, Los Angeles. IPAM offers programs that encourage collaboration across disciplines and between two areas of mathematics. IPAM holds long programs (three months) and workshops (three to five days) throughout the academic year for junior and senior mathematicians and scientists who work in academia, research laboratories, and industry. In the summer, IPAM offers industrial research programs in Los Angeles, Hong Kong, and Berlin for undergraduate and graduate students.

IPAM seeks program proposals from the math and science communities. **Please send your idea for a workshop, long program, or summer school to director@ipam.ucla.edu.**

IPAM's upcoming programs are listed below. Please go to www.ipam.ucla.edu/programs for detailed information on each program, and to find application and registration forms.

On April 27–28, 2017, IPAM will host the *National Meeting of Women in Financial Mathematics*.

The spring 2017 long program *Computational Issues in Oil Field Applications* began on March 20. You may register online for one of the following workshops:

- Workshop I: Multiphysics, Multiscale, and Coupled Problems in Subsurface Physics. April 3–7, 2017
- Workshop II: Full Waveform Inversion and Velocity Analysis. May 1–5, 2017
- Workshop III: Data Assimilation, Uncertainty Reduction, and Optimization for Subsurface Flow. May 22–26, 2017

The fall 2017 long program *Complex High-Dimensional Energy Landscapes* is still accepting applications. You may also register or apply for funding for one of the following workshops online.

- Complex High-Dimensional Energy Landscapes Tutorials: September 11–15, 2017
- Workshop I: Optimization and Optimal Control for Complex Energy and Property Landscapes: October 2–6, 2017
- Workshop II: Stochastic Sampling and Accelerated Time Dynamics on Multidimensional Surfaces: October 16–20, 2017
- Workshop III: Surrogate Models and Coarsening Techniques: October 30–November 3, 2017
- Workshop IV: Uncertainty Quantification for Stochastic Systems and Applications: November 13–17, 2017

IPAM's spring 2018 long program is *Quantitative Linear Algebra*. More information on these programs, including a schedule of workshops and application and registration forms, is available online.

- Quantitative Linear Algebra Tutorials: March 19–23, 2018
- Workshop I: Expected Characteristic Polynomial Techniques and Applications: April 9–13, 2018
- Workshop II: Approximation Properties in von Neumann Algebras and Ergodic Theory: April 30–May 5, 2018
- Workshop III: Random Matrices and Free Probability Theory: May 14–18, 2018


IPAM is offering the following *Winter Workshops* in 2018. You may apply for support or register for each workshop online.

- Algorithmic Challenges in Protecting Privacy for Biomedical Data: January 10–12, 2018
- New Methods for Zimmer's Conjectures: January 22–26, 2018
- New Deep Learning Techniques: February 5–9, 2018

Finally, IPAM will be sponsoring the second *Latino/as in the Mathematical Sciences Conference* on March 8–10, 2018. More information will be available in the coming months.

—IPAM announcement

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