

Anna Kononova

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ORCID *0000-0002-4482-0540*

EDUCATION

- **Ph.D., Mathematics** St.Petersburg, Russia
St. Petersburg Department of Steklov Institute of Mathematics *September 2009*

Thesis Title: *"Asymptotics of orthogonal polynomials and compact perturbations of Jacobi operator"*
Scientific Advisor: Valery Kalyagin
- **M.Sc., Mathematics**
St. Petersburg State University

RESEARCH INTERESTS

Complex analysis, orthogonal polynomials, weighted approximation.

LANGUAGES

Russian (native), **Hebrew**, **English**, .

ACADEMIC AND PROFESSIONAL EXPERIENCE

- **Holon Institute of Technology** 2023-Present
Adjunct Professor
 - **Ordinary Differential Equations:** Lecture classes for Bachelor students.
 - **Mathematical Analysis:** Lectures courses and practical classes for Bachelor students.
 - **Linear Algebra:** Practical classes for Bachelor students.
- **Tel Aviv University** 2022-2025
Researcher (Grant from the Ministry of Aliyah and Integration)
- **St. Petersburg State University** 2011-2022
Associate Professor, Department of Mathematical Analysis
 - **Mathematical Analysis:** Lectures courses and practical classes for Bachelor students.
 - **Complex Analysis:** Lectures courses and practical classes for Bachelor students.
 - **Measure Theory:** Lectures courses and practical classes for Bachelor students.
 - **Selected Topics of Mathematical Analysis:** Seminar Classes for Bachelor students.
 - **Additional Chapters of Real and Complex Analysis:** Lecture Course for Master students.
- **ITMO University** 2018-2022
(former St Petersburg State University of Information Technologies, Mechanics and Optics)
Associate Professor (part time), Information Technologies and Programming Faculty
 - **Mathematical Analysis:** Lectures courses and practical classes for Bachelor students.
 - **Complex Analysis:** Lectures courses and practical classes for Bachelor students.
 - **Measure Theory:** Lectures courses for Bachelor students.
- **Baltic State Technical University** 2009-2019
Associate Professor, Department of Higher Mathematics (part time starting 2011)
 - **Calculus I-IV:** Lectures courses and practical classes for Bachelor students.
 - **Linear Algebra and Analytic Geometry:** Lectures courses and practical classes for Bachelor students.
 - **Probability Theory:** Lectures courses and practical classes for Bachelor students.
 - **Mathematical Physics:** Lectures courses and practical classes for Master students.
- **Nizhniy Novgorod Technical University** 1997-2010
Assistante Professor, Department of Applied Mathematics
Various Mathematical courses for Bachelor Students.
- **Nizhniy Novgorod Technical University** 1993-1995
Software Engineer

ORGANIZATION OF SCIENTIFIC EVENTS:

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| • International Spring School
<i>Spectral Function Theory</i> | St.Petersburg, Russia
<i>April 2019</i> |
| • International Workshop
<i>Reproducing Kernels in Function Spaces and Their Applications</i> | St.Petersburg, Russia
<i>June 2019</i> |

PUBLICATIONS

- A. Kononova, Uniqueness sets with angular density for spaces of entire functions, I. Basics, *Studia Mathematica*, (2026)
DOI: 10.4064/sm250317-8-1
- A. Kononova, Random zero sets for Fock type spaces, *Analysis and Mathematical Physics*, 13(1), 9 (2023).
- A. Kononova, Convergence rate for weighted polynomial approximation on the real line, *Journal of Approximation Theory*, 272 (2021).
- A. Kononova, Quantitative Szegő Minimum Problem for Some non-Szegő Measures, *Extended Abstracts Fall 2019: Spaces of Analytic Functions: Approximation, Interpolation, Sampling*. Birkhäuser Verlag AG, Trends in Mathematics; v. 12 (2021), 123-127.
- A. Borichev, A. Kononova, M. Sodin, Notes on the Szego minimum problem. I. Measures with deep zeroes, *Israel Journal of Mathematics*, 240:2 (2020), 725-743.
- A. Borichev, A. Kononova, M. Sodin, Notes on the Szegő minimum problem. II. Singular measures, *Israel Journal of Mathematics*. 240:2 (2020), 745-767.
- A. A. Kononova, On measures generating orthogonal polynomials with similar asymptotic behavior of the ratio at infinity, *Ufa Mathematical Journal*. 10:1 (2018), 64-75.
- A. A. Kononova, Stability of ratio asymptotics of orthogonal polynomials under some class of measure perturbations, *Acta Scientiarum Mathematicarum (Szeged)*. 81:1-2 (2015), 133-143.
- A. A. Kononova, On compact perturbations of finite-zone Jacobi operators, *Journal of Mathematical Sciences*, 165:4 (2010), 473-482.
- V. A. Kalyagin, A. A. Kononova, On compact perturbations of the limit-periodic Jacobi operator, *Mathematical Notes*, 86:5-6 (2009), 789-800.
- V. A. Kalyagin, A. A. Kononova, On the asymptotics of polynomials orthogonal with respect to a measure with atoms on a system of arcs, *St. Petersburg Math. J.*, 21:2 (2010), 217-230.

CONFERENCE AND SEMINAR TALKS

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| ◦ “The King’s College London Analysis Seminar”, London, UK | Februar 2025 |
| ◦ Seminar “Séminaire Informele Analyse”, Paris, France | Februar 2025 |
| ◦ Conference “Harmonic and Complex Analysis: Modern and Classical”, Ramat-Gan, Israel | June 2023 |
| ◦ Seminar “Séminaire d’Analyse Fonctionnelle”, Paris, France | March 2023 |
| ◦ Workshop “Analysis Day III”, Holon, Israel | June 2022 |
| ◦ Workshop “Complex Approximations, Orthogonal Polynomials and Application”, Sochi, Russia | June 2021 |
| ◦ Seminar “Complex Approximations, Orthogonal Polynomials and Application”, Moscow, Russia (online) | May 2020 |
| ◦ Conference Spaces of Analytic Functions: Approximation, Interpolation, Sampling, CRM, Barcelona | November 2019 |
| ◦ Seminar “Geometric Analysis and Mathematical Physics”, Copenhagen, Denmark | August 2019 |
| ◦ 15th International Symposium on Orthogonal Polynomials, Special Functions and Applications, Hagenberg, Austria | July 2019 |
| ◦ Advanced Courses in Operator Theory and Complex Analysis, Paris, France | June 2019 |
| ◦ Conference “One-Dimensional Complex Analysis and Operator Theory”, St.Petersburg, Russia | May 2019 |
| ◦ Seminar on Operator Theory and Function Theory, St.Petersburg, Russia | February 2019 |
| ◦ Séminaire Analyse et Géométrie, Marseille, France | November 2017 |
| ◦ The 2nd St.Petersburg Conference in Spectral Theory, St.Petersburg, Russia | July 2010 |
| ◦ 17th Summer St. Petersburg Meeting in Mathematical Analysis, St.Petersburg, Russia | June 2008 |
| ◦ Seminar on Operator Theory and Function Theory, St.Petersburg, Russia | March 2008 |
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