Yulia Petrova. Curriculum Vitae

Personal Data

Name:	Petrova Yulia (Iuliia) Petrovna
Date of Birth:	29 June 1991, Ukhta, Russia (ex. USSR)
Current position:	Assistant Professor (Professora Adjunta), PUC-Rio Pontifícia Universidade Católica do Rio de Janeiro
Current address:	R. Marquês de São Vicente, 124 (room 854) Gávea, Rio de Janeiro, Brazil, 22451-040
Phone, email:	+55 (21) 96 739 7394, yu.pe.petrova@gmail.com
Homepage:	https://yulia-petrova.github.io/
Marital status:	married, no children
Last CV update:	28/05/2024

Research interests

- *Hyperbolic conservation laws*: well-posedness, Riemann problem, traveling and shock waves
- *Fluid dynamics*: multiphase flow in porous media, viscous/gravitational fingering phenomenon
- *Spectral theory*: asymptotics of eigenvalues for compact operators
- *Probability theory*: Gaussian processes, small ball probabilities
- *Industrial applications*: enhanced oil recovery (EOR) methods

Education

Nov 2018	PhD in Mathematics and Physics, St. Petersburg State University, Russia Supervisor: Alexander I. Nazarov. PhD thesis: «Exact L_2-small ball asymptotics for finite-dimensional perturbations of Gaussian processes» (in Russian). Short version (in Russian)
Jun 2013	MSc in Mathematics, chair of Mathematical Physics, St. Petersburg State University, Russia

Professional Experience

2023– present	Assistant Professor at PUC-Rio as a part of "Projeto Paz", Rio de Janeiro, Brazil
2021– 2023	Postdoc of excellence at Instituto de Matematica Pura e Aplicada (IMPA) Rio de Janeiro, Brazil. Researcher at Center PI, IMPA
2017–2021	Researcher at Chebyshev laboratory, St. Petersburg State University, Russia Participant of industrial projects with PJSC «Gazprom Neft»
2018–2021	Teaching at Department of Mathematics and Computer Science St. Petersburg State University, Russia
2014–2018	Teaching at Department of Mathematics and Information Technology St. Petersburg Academic University, Russia
2012–2015	Teaching at Institute of Physics, Nanotechnology and Telecommunications St. Petersburg Polytecnic University, Russia

Research Awards

2019	Laureat of the «Young Mathematician» prize of the St. Petersburg Mathematical Society
2018–2019	«Gazprom Neft» Scholarship
2018	Winner of 22nd Möbius Contest in nomination «Undergraduates and graduates»
2009	Euler Fellowship for undergraduate students

Recommendation letters

- Yalchin Efendiev, Texas A&M, USA (yalchinrefendiev@gmail.com)
- Dan Marchesin, IMPA, Rio de Janeiro, Brazil (marchesi@impa.br)
- Jean-Michel Roquejoffre, Univ. Paul Sabatier, France (jean-michel.roquejoffre@math.univ-toulouse.fr)
- Mikhail Lifshits, St. Petersburg State University, Russia (mikhail@lifshits.org)
- Alexander Nazarov, St. Petersburg department of PDMI, Russia (al.il.nazarov@gmail.com)

Research Grants

2024–2026	Participant of CNPQ Universal 406460/2023-0 (Brazil): Multiphase flow in porous media.
2024–2026	Individual grant FAPERJ APQ 1, Auxílio básico a pesquisa (Brazil): Fluid dynamics in porous media
2021	Co-principal investigator of Russian Science Foundation RSF grant 21-11-00047 (Russia): Stochastic processes and fields with application to data analysis
2019–2021	Participant of the Russian Science Foundation RSF grant 19-71-30002 (Russia): Analysis, geometry, mathematical physics and applications
2019–2020	Participant of the President grant MD-1791.2019.1 (Russia): Parabolic equations describing displacement of viscous fluids in porous media and systems with hysteresis
2017–2018	Participant of Russian Science Foundation RSF Grant 17-11-01003 (Russia): Asymptotic spectral analysis: gaps, near-threshold anomalies, "invisibility" and eigenvalues
2016–2018	Participant of RFBR Grant 16-01-00258a (Russia): Approximation of stochastic processes and functionals of them
2013–2016	Participant of St. Petersburg State University Grant 6.38.670.2013 (Russia): Partial Differential Equations and applications

Published papers

11. (with A.I. Nazarov) *L_2-small ball asymptotics for some demeaned Gaussian processes.* Statistics and Probability Letters, 206:109990, 2024.
10. (with F. Bakharev, A. Enin, N. Rastegaev) *Impact of dissipation ratio on vanishing viscosity solutions of the Riemann problem for chemical flooding model.* Journal of Hyperbolic Differential Equations, 20(2):407–432, 2023.
9. (with A.I. Nazarov) *L_2-small ball asymptotics for Gaussian random functions: A survey.* Probability Surveys, 20:608–663, 2023.
8. (with F. Bakharev, A. Enin, K. Kalinin, N. Rastegaev, S. Tikhomirov) *Optimal polymer slugs injection profiles.* Journal of Computational and Applied Mathematics, 425:115042, 2023.
7. (with F. Bakharev, A. Enin, A. Groman, A. Kalyuzhnuk, S. Matveenko, I.Starkov, S. Tikhomirov) *Velocity of viscous fingers in miscible displacement: Comparison with analytical models.* Journal of Computational and Applied Mathematics, 402:113808, 2022.
6. *L_2-small ball asymptotics for a family of finite-dimensional perturbations of Gaussian functions.* Zapiski Nauchnykh Seminarov POMI, Nikitin's memorial volume, 501:236–258, 2021. [Russian]. Engl. transl.: Journal of Mathematical Sciences, 273(5): 816–831, 2023.
5. (with F. Bakharev, L. Campoli, A. Enin, S. Matveenko, S. Tikhomirov, A. Yakovlev) *Numerical investigation of viscous fingering phenomenon for raw field data.* Transport in Porous Media, 132:443–464, 2020.
4. *On spectral asymptotics for a family of finite-dimensional perturbations of operators of trace class.* Doklady Math., 98(1):367–369, 2018.
3. *Exact L_2-small ball asymptotics for some Durbin processes.* Zapiski Nauchnykh Seminarov POMI, 466:211–233, 2017. [Russian]. Engl. transl.: Journal of Mathematical Sciences, 244(5):842–857, 2020.
2. *Spectral asymptotics for problems with integral constraints.* Mat. Zametki, 102(3):405–414, 2017 [Russian]. Engl. transl.: Mathematical Notes, 102(3-4):369–377, 2017.
1. (with A.I. Nazarov) *The small ball asymptotics in Hilbertian norm for the Kac–Kiefer–Wolfowitz processes.* Teor. Veroyatnost. i Primenen., 60(3):482–505, 2015 [Russian]. Engl. transl.: Theory of Probability and its Applications, 60(3):460–480, 2016.

Preprints

14. (with F.Bakharev, A.Enin, S.Matveenko, D.Pavlov, N. Rastegaev, S.Tikhomirov) *Velocity of viscous fingers in miscible displacement: Intermediate concentration.* Submitted. arXiv:2310.14260
13. (with S. Tikhomirov, Ya. Efendiev) *Propagating terrace in a two-tubes model of gravitational fingering.* Submitted. arXiv:2401.05981.
12. (with B. Plohr, D. Marchesin) *Vanishing adsorption admissibility criterion for contact discontinuities in the polymer model.* To appear in Journal of Hyperbolic Differential Equations. arXiv:2211.10326.

Conference Proceedings and Reports

16. (with S. Tikhomirov, Ya. Efendiev) Oberwolfach report 2409 "Hyperbolic Balance Laws: Interplay between Scales and Randomness". *On the linear growth of the mixing zone in a semi-discrete model of Incompressible Porous Medium equation*, 2024. Available here.

15. (with S. Tikhomirov, F. Bakharev, A. Groman, A. Kalyuzhnyuk, A. Enin, K. Kalinin, N. Rastegaev) *Calculation of graded viscosity banks profile on the rear end of the polymer slug.* Paper SPE-206426-MS, SPE Russian Petroleum Technology Conference, October 2021.

Patents and Registered computer programs

18. (with O. Chebyshova, I. Koltsov, M. Bondar, G. Sherbakov, S. Milchakov, D. Apushkinskaya, F. Bakharev, S. Tikhomirov, K. Kalinin, S. Matveenko, D. Pavlov, and N. Rastegaev)

    Express simulator of enhanced oil recovery methods. 2023. Computer Program.

    Registration number: RU2023617893. Registration date: 17/04/2023.
    Registration institution: Federal Service for Intellectual Property of Russian Federation.

17. (with A. Groman, F. Bakharev, S. Tikhomirov, N. Rastegaev, A. Enin, and K. Kalinin) Patent No. 2772808 C1, Russian Federation, IPC E21B 43/16, C09K 8/58.

    Method for enhanced oil recovery: No. 2021133106: Appl. 11/15/2021 : publ. May 25, 2022

    Applicant Limited Liability Company "Gazpromneft-Technological Partnerships".

Participation at Conferences & Schools

Aug 2024	*(planned)* Congresso Latino-Americano e do Caribe de Matemática, CLAM, João Pessoa, Brazil, "Conservation laws: math. analysis and industrial-based models"	
Jun 2024	*(planned)* Mostly Maximum Principles, PUC-Rio, Rio de Janeiro, Brazil	
Jun 2024	*(planned)* Equadiff 2024, Karlstad, Sweden. MS: "Mathematics of porous media"	
Jun 2024	*(planned)* SPP2410 Workshop: Analysis of Dissipation in Inviscid and Compressible Fluid Dynamics, Konstanz, Germany	
Feb 2024	Hyperbolic Balance Laws: interplay between scales and randomness, Oberwolfach, Germany. Talk: "On the linear growth of the mixing zone in a semi-discrete model of Incompressible Porous Medium (IPM) equation"	.pdf
Feb 2024	Spring School "Multiplicative chaos and cascades", TU Darmstadt, Germany Talk: "Small ball probabilities for Gaussian processes"	.pdf
Jan 2024	ICMC Summer Meeting on Differential Eqs, São Carlos, Brazil. Talk: "Vanishing adsorption admissibility criterion for contact discontinuities in the polymer model"	.pdf .pptx
Oct 2023	VI Workshop on Fluids and PDE, Campinas, Brazil. Talk: "Vanishing adsorption admissibility criterion for contact discontinuities in the polymer model"	.pdf
July 2023	School: Deterministic and random features of fluids, EPFL, Lausanne, Switzerland	
June 2023	Shocking Developments: New Directions in Compressible and Incompressible Flows, Conference in Honor of Alexis Vasseur's 50th Birthday, Leipzig, Germany	
May 2023	Mini-conference dedicated to 60-th birthday of A.I. Nazarov. Online	.pdf
Feb 2023	Multiscale Analysis and Methods for Quantum and Kinetic Problems. Singapore. Talk in junior researcher section: "Two tube model of miscible displacement: travelling waves and normal hyperbolicity"	Video .pdf .pptx
Jan 2023	13th Americas Conference on Diff. Equations and Nonlinear Analysis and ICMC Summer Meeting on Differential Equations. São Carlos, Brazil. Talk: "Two tube model of miscible displacement: travelling waves and normal hyperbolicity"	Slides: .pdf .pptx
Oct 2022	Conference IMPA 70 years & International Conference on Dynamical Systems. Celebrating the 60th Birthday of Marcelo Viana, Rio de Janeiro, Brazil	
July 2022	O.A. Ladyzhenskaya centennial conference on PDE's. St. Petersburg, Russia.	Poster
July 2022	Hyperbolic Balance Laws & Beyond. Magdeburg, Germany	Poster
June 2022	International Conference on Hyperbolic Problems (HYP). Malaga, Spain "On admissibility criteria for contact discontinuities in Glimm-Isaacson model"	Slides

May 2022	Workshop: Branching systems, reaction-diffusion equations and population models, Centre de recherches matematiques (CRM), Montreal. Online.	
Dec 2021	International conference "Probabilistic methods in analysis", in Sirius, Sochi, Russia. Plenary talk: "Small ball probabilities for Gaussian processes"	Slides
Dec 2021	Workshop: "Nonlinear PDEs and Modelling", St. Petersburg, Russia. Talk: "Looking for exact mixing velocities in miscible displacement: two-tube model"	Slides
Aug 2021	InterPore2021. Brazilian Chapter.	Slides
June 2021	InterPore2021. Online conference. Talk: "Graded viscosity banks on the rear end of the polymer slug"	Slides
Aug 2019	Third ZiF Summer School "Randomness in Physics and Mathematics" From Stochastic Processes to Networks. Bielefeld, Germany	Poster
May 2019	Stochastic models II. Euler Institute, St. Petersburg, Russia Talk: "Exact L_2-small ball probabilities for Durbin processes"	Slides
Jan 2018	The third Indo-Russian meeting in probability and statistics. Bangalore, India Talk: "Exact small ball asymptotics in L_2-norm for finite-dimensional perturbations of Gaussian processes: spectral method"	Slides
Dec 2017	St. Petersburg winter conference on Probability Theory and Mathematical physics. PDMI-MIAN. Talk: "On exact spectral asymptotics of finite-dimensional perturbations of integral operators of trace class"	Slides
June 2017	Symposium on Probability Theory and Random Processes, St. Petersburg "Exact L_2-small ball asymptotics for perturbations of Brownian bridge"	Slides
April 2017	International conference on partial differential equations, Beijing, China "Spectral asymptotics in some problems with integral constraints"	Poster
June 2016	Days of Diffraction-2016, St. Petersburg, Russia Talk: "Spectral asymptotics in some problems with integral constraints"	Slides
May 2016	The 2nd Russian-Indian Joint Conference in Statistics and Probability. Talk: "Small ball asymptotics for detrended Green Gaussian processes"	Slides
Sept 2015	Yu.V.Linnik Centennial Conference, St. Petersburg, Russia Talk: "The L_2-small ball asymptotics for the Kac-Kiefer-Wolfowitz processes"	
July 2015	7th St.Petersburg Conference in Spectral Theory, St. Petersburg, Russia Talk: "Asymptotics of eigenvalues for some integro-differential operators"	Slides
July 2014	Students school on PDEs and Geometric Measure Theory, CIME, Italy	
July 2010	XIII Diffiety School on Mathematics, Santo Stefano del Sole, Italy	
July 2009	XII Diffiety School on Mathematics, Santo Stefano del Sole, Italy	

Invited talks at seminars

Oct 2023	Coloquium Instituto de Matematica UFRJ, Rio, Brazil. Seminar organizer: Cesar J. Niche. Talk: "Viscous fingering: teoria e aplicações" (in Portuguese)	.pdf .pptx
Sept 2023	98º EDAÍ, dynamical systems seminar (PUC-Rio, UFRJ, UFF), Rio, Brazil. Seminar organizers: Lorenzo J. Diaz, Manuel Stadlbauer, Gabriela Estevez. Talk: "Travelling waves: dynamical perspective" (in Portuguese)	.pdf .pptx
March 2023	Q.T.P. seminar at PUC-Rio (Que Termina em Pizza), Rio, Brazil. Seminar organizer: Lorenzo J. Diaz. Talk: "Viscous fingering: theory and applications"	.pdf .pptx
Nov 2022	Oberseminar "Nonlinear Dynamics" at Freie Universität Berlin, Germany (joint talk with S.Tikhomirov). Seminar organizers: Bernold Fiedler, Isabelle Schneider, Eckehard Schöll, Matthias Wolfrum. Talk: "Two tube model of miscible displacement: travelling waves and normal hyperbolicity"	Slides
July 2022	Seminário de Probabilidade at Instituto de Matemática, UFRJ, Rio, Brazil. Seminar organizers: Giulio Iacobelli and Maria Eulalia Vares. Talk: "Small ball probabilities for Gaussian processes"	Slides
July 2022	Seminário Luiz Adauto de Análise/EDP at Instituto de Matemática, UFRJ, Rio, Brazil. Seminar organizer: Daniel Marroquin. Talk: "On chemical flooding models: Riemann problem solutions and viscous fingering phenomenon"	Slides
May 2022	Oberseminar "Nonlinear Dynamics" WIAS Berlin, Germany. Online. Seminar organizers: Bernold Fiedler, Isabelle Schneider, Eckehard Schöll, Matthias Wolfrum. Talk: "On the impact of dissipation ratio on vanishing viscosity solutions of Riemann problems for chemical flooding models"	Slides

12 May 2022	2-do Encontro Mulheres Matematicas do IMPA, Rio, Brazil. Online. Organizers: Claudia Lorena Duarte, Daniela Paiva Penuela, Zoraida Fernandez Rico. Sessão Temática - Dinâmica dos Fluidos.	Slides
April 2022	CeMEAI seminar at ICMC/USP in São Carlos, Brazil. Organizer: Tiago Pereira. Talk: "On solutions of Riemann problem for chemical flooding model"	Slides
April 2022	Seminar of Applied and Computational Mathematics, IMPA, Rio, Brazil. Organizers: Alexei Mailybaev, Dan Marchesin. Talk: "Toy model of viscous fingering"	Slides
April 2022	Seminar on Analisis and PDE at IMPA, Rio, Brazil. Seminar organizer: Felipe Linares. Talk: "On the impact of dissipation ratio on vanishing viscosity solutions of Riemann problems for chemical flooding models"	Slides
March 2022	Seminario das Mulheres IMPA, Rio, Brazil. Seminar organizer: Zoraida Fernandez-Rico. Talk: "Small ball probabilities for Gaussian Processes"	Slides
March 2022	Centro PI seminar at IMPA, Rio, Brazil. Seminar organizers: Roberto Imbuzeiro, Paulo Orenstein. Talk: "Oil Recovery: Fundamental research and Industrial applications"	Slides
Feb 2022	Applied Math/PDE Seminar UC Davis, California, USA. Online. Seminar organizers: Blake Temple, Steve Shkoller, Sameer Iyer. Talk: "On solutions of a Riemann problem for a chemical flooding model"	Slides
Nov 2021	Gabriel Lame Chair Seminar at Chebyshev Laboratory, St. Petersburg, Russia. Online. Seminar organizer: Jean-Michel Roquejoffre. Talk: "On the impact of diffusion ratio on vanishing viscosity solutions of Riemann problems for chemical flooding models"	Slides
Oct 2021	Seminario de EDP e Matematica Aplicada. Online. Seminar organizers: Juan Limaco, Mauro Rincon, Max Souza, Marcelo Calvacanti. Talk: "Admissibilidade das descontinuidades de contato: aplicação para recuperação melhorada de petróleo" (in Portuguese)	
May 2021	Colloquium of Industrial Projects at Chebyshev Laboratory, St. Petersburg, Russia. Organizer: Sergey Tikhomirov. Talk: "On mathematical results in Enhanced Oil Recovery project" (in Russian)	Slides
Feb 2020	Student colloquium at Chebyshev Laboratory, St. Petersburg, Russia. Talk: "Mathematical models describing the process of oil recovery"	
Jan 2020	Seminar "Industrial mathematics", Chebyshev Laboratory, St. Petersburg Organizers: F. Bakharev, Sergey Tikhomirov, Yulia Petrova, Slava Borovitskiy Talk: "On the solution of the Riemann problem for a hyperbolic system of conservation laws simulating the injection of a polymer into an oil reservoir"	
Feb 2018	Oberseminar, Technical University Darmstadt, Germany. Seminar organizer: Frank Aurzada. Talk: "Exact L_2-small ball probabilities for finite-dimensional perturbations of Gaussian processes"	
Jan 2018	Oberseminar Analysis, Mathematische Physik & Dynamische Systeme, TU Dortmund, Germany. Seminar organizer: Ivan Veselic. Talk: "Exact L_2-small ball probabilities for finite-dimensional perturbations of Gaussian processes"	
Jan 2018	Seminar "Calculus of Variations and applications", Ludwig-Maximilians Universit, Munich, Germany. Organizer: Rupert Frank. Talk: "Exact L_2-small ball probabilities for finite-dimensional perturbations of Gaussian processes"	
Jan 2018	Postgraduate Seminar in Probability, Department of Mathematics, TU Munich, Germany. Seminar organizer: Nina Gantert. Talk: "Exact L_2-small ball probabilities for finite-dimensional perturbations of Gaussian processes"	
Nov 2017	Seminar of the Department of Probability Theory, Moscow State University, Russia. Seminar organizer: Albert Shiryaev. Talk: "Exact asymptotics of small deviations in L_2-norm for finite-dimensional perturbations of Gaussian processes: a spectral approach"	
Oct 2017	St. Petersburg Seminar on Probability Theory and Mathematical Statistics. Organizer: Il'dar Ibragimov. Talk: "Exact asymptotics of small deviations in L_2-norm for finite-dimensional perturbations of Gaussian processes"	
Dec 2015	Seminar "Operator Models in Mathematical Physics", Moscow State University, Russia. Seminar organizer: Andrey Shkalikov. Talk: "Asymptotic behavior of eigenvalues for integro-differential operators"	

Teaching Experience

2024.1	Lectures and seminars "Proofs from the BOOK", BS & MS	Link
2023.2	Lecture course "Introduction to Fourier analysis", MS & PhD	
2023.1	Lecture course "Shock waves in conservation laws and reaction-diffusion eqs", MS	Link
	Department of Mathematics, PUC-Rio, Rio de Janeiro, Brazil	
2021.1	Tutorial "Calculus of variations", BS	Materials
2020.2	Tutorial "Probability theory", BS	Materials
2020.1	Tutorial "Functions of complex variables (Calculus IV)", BS	Materials
2019.2	Tutorial "Calculus I" and "Calculus III", BS	Materials
2019.1	Tutorial "Calculus II", BS	
2018.2	Tutorial "Calculus I", BS	
	Faculty of Mathematics and Computer Science	
	St. Petersburg State University, Russia	
11/2019	Assistant to the course "Dynamical systems", MS	
	COMSATS University Islamabad, Lahore Campus, Pakistan	
	ICTP-CUI Visiting Scholars Program for Training and Research in Math	
01/2019	Mini-course of 4 lectures on "Random walks" (for high-school students)	
	Educational Program in Mathematics and Computer Science at "Sirius"	
	Sochi, Russia	
2018.2	Tutorial "Calculus I", BS	
2018.1	Tutorial "Calculus II", BS	
2017.2	Tutorial "Calculus I", BS	
2017.1	Tutorial "Calculus II" and "Calculus IV", BS	Materials
2016.2	Tutorial "Calculus I" and "Calculus III", BS	Materials
2016.1	Tutorial "Calculus IV", BS	
2015.2	Tutorial "Calculus I" and "Calculus III", BS	
2015.1	Tutorial "Calculus II", BS	
2014.2	Tutorial "Calculus I", BS	
	St. Petersburg Academic University, Russia	
2014.1	Tutorial "Partial differential equations II", BS	
2013.2	Tutorial "Partial differential equations I", BS	
2013.1	Tutorial "Partial differential equations II", BS	
2012.2	Tutorial "Partial differential equations I", BS	
	St. Petersburg Polytecnic University, Russia	
2012–2017	Teaching *Olympiad Mathematics* in "Formulo de Integreco"	Materials
	International educational center for gifted high-school students	

Mentoring students

2023–2024	Master student: João Pedro Pasinato (PUC-Rio)

Reviewer

2023 –	Nonlinearity

Member of Mathematical Societies

St. Petersburg Mathematical Society
Brazilian Mathematical Society (SBM)

Languages

Russian:	Native speaker
English:	Fluent
Portuguese:	Proficient. Avançado superior na preparação Celpe-Bras, October 2022
Spanish:	Proficient. Intermediate talking, proficient reading and writing

Additional experience

Organizational:	• co-organizer of CRANED, joint seminar in analysis and PDEs in Rio (2024) • co-organizer of seminar "Que Termina em Pizza" Q.T.P. at PUC-Rio (2024) • co-organizer of seminar "Applied and Comput. Mathematics" at IMPA (2022) • co-organizer of the seminar «Industrial Mathematics» from Feb 2019 till Feb 2022 at Chebyshev Laboratory, St. Petersburg, Russia. See also YouTube
Industrial:	I was a part of a long-term industrial project in Chebyshev Laboratory on Enhanced Oil Recovery (EOR) methods jointly with petroleum company «Gazprom Neft» in 2018–2021 in St. Petersburg, Russia. As a result of this collaboration we have a patent and a registered computer program. As a part of a project I also made physical experiments (Hele-Shaw cell — link)
Programming:	COMSOL Multiphysics, Matlab, Git, basics of Python. Among numerical methods I worked with FEM, FVM, FDM
Adaptivity:	I easily adapt to different countries. I have been to almost all European countries, India, China, Pakistan, Egypt, Mexico. Now I am working in Brazil
Olympiads:	At school I frequently was the winner of city olympiads in maths, physics, chemistry and informatics. Several times I was the winner of math olympiad of republic level. I was actively teaching olympiad mathematics during my university studies
Thesis committee:	PhD thesis: Júlia Domingues Lemos (IMPA, 2022). Master thesis: Giulia Carvalho Fritis (UFJF, 2023), Temirlan Abildaev (SPSU, 2020). Bachelor thesis: Alexander Tarasov (SPSU, 2019), Tatyana Moseeva (SPSU, 2020).
Divulgation of mathematics:	Lecture at cultural center Adelante "El matrimonio entre natureza e arquitectura" ou "Las matemáticas en la obra de Antoni Gaudí", 2015, St. Petersburg, link (spanish)

Links

ORCID	https://orcid.org/0000-0003-0595-3727
Arxiv	https://arxiv.org/a/0000-0003-0595-3727.html
Google Scholar	https://scholar.google.com/citations?hl=en&user=cchgBPMAAAAJ
Lattes	http://lattes.cnpq.br/1307618187534439
MathSciNet	https://mathscinet.ams.org/mathscinet/author?authorId=1187391
zbMATH	https://zbmath.org/authors/?q=petrova.yulia