

Erkinjon Tulkinovich KARIMOV



PERSONAL INFORMATION

Date of birth 20.05.1977

Place of birth Baghdad district, Ferghana Region, Uzbekistan

CONTACT INFORMATION

Address Durmon yuli str., 29, Tashkent, 100125, Uzbekistan,
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EDUCATIONAL BACKGROUND

Postgraduate study

1.11.2002 – 1.11.2005 PhD Student at the Institute of Mathematics, Uzbek Academy of Sciences

Degree Doctor of Philosophy in Physics and Mathematics (2006)

Field of Research Partial differential equations, boundary problems for the mixed type equations, spectral theory of PDE, special functions

Thesis "Boundary-value problems for the parabolic-hyperbolic type equations with spectral parameter"

Supervisor Professor **Abdumauvlen S. BERDYSHEV** (berdyshev@mail.ru)

Undergraduate and Graduate studies

01.09.1993 – 30.07.1998	Student at Ferghana State University, Department of Mathematics
Degree	Diploma (1998)
Field of Study	Mathematics
Thesis	“The Bitsadze-Samarskii type problem for the parabolic-hyperbolic type equation with two lines of degeneracy”
Supervisor	Professor Akhmadzhon K. URINOV (urinovak@mail.ru)

EMPLOYMENT

01.01.2009 – Current	Senior Researcher, Institute of Mathematics, National University of Uzbekistan named after Mirzo Ulughbek
02.11.2005 – 31.12.2008	Research Associate, Institute of Mathematics and Information Technologies, Academy of Sciences of the Rep. of Uzbekistan
02.09.2006 – 25.02.2008 (part time)	Senior Lecturer, Syrdaria University, Kazakhstan
20.08.2001 – 15.10.2002	Probationer Researcher, Ferghana State University
13.08.1998 – 19.08.2001	Teacher of mathematics, High school in Baghdad district, Ferghana region

RESEARCH INTERESTS***MathScieCode 2000***

35M10	PDE of mixed type
35P05	General spectral theory of PDE
35K05	Heat equation
35K20	Boundary value problems for second-order, parabolic equations
35K65	Parabolic partial differential equations of degenerate type
35A08	Fundamental solutions
35J25	Boundary value problems for second-order, elliptic equations
35J70	Elliptic partial differential equations of degenerate type
32W50	Other partial differential equations of complex analysis
33C05	Classical hypergeometric functions
65N21	Inverse problems
33E12	Mittag-Leffler functions and generalizations
34A08	Fractional differential equations
34B27	Green functions

FELLOWSHIPS AND SCHOLARSHIPS

Visiting fellowship of ICTP

Abdus Salam International Center for Theoretical Physics (Trieste, Italy, 2012)

Postdoctoral Fellowship from ERASMUSMUNDUS ECW

Host University
Host professor

Universidad de Santiago de Compostela (Spain)
Prof. **Juan Jose Nieto-Roig** and Prof. **Alberto Cabada**
(juanjose.nieto.roig@usc.es) (alberto.cabada@usc.es)

Fellowship from DAAD (German Academic Exchange Service)

Host University
Host professor
Travel grants

Freie Universität Berlin (Germany)
Professor, Dr. **Heinrich Begehr** (begehr@math.fu-berlin.de)

Eindhoven Technical University (Netherlands, 2005), Middle East Technical University (Turkey, 2007), Vanderbilt University (USA, 2008), Imperial College London (UK, 2009), University of Göttingen (Germany, 2011), University of Santiago de Compostela (2012)

PRIZES

TWAS Prize for young researchers (2011)

Research grants

Research grant for young scientists (2012-2013)

OTHER INFORMATION

Member

ISAAC (International Society for Analysis, its Applications and Computation)

Reviewer

Applied Mathematics Letters (AML), Journal of Mathematical Analysis and Applications (JMAA), Journal of Nonlinear Analysis (NA), Arabian Journal for Science and Engineering

Language skills

Native Uzbek, Excellent Russian, Excellent English, Good German, Comprehensive Turkish, Good Spanish

Administrative duties

Scientific secretary of the Republican special committee for obtaining degrees "Doctor of Philosophy" and "Doctor of Sciences" on specialties: 01.01.02-differential equations; 01.01.06-algebra and number theory; 01.01.04-topology and geometry.

Leader of the committee "Young scientists of the Institute of Mathematics".

VISITED COUNTRIES

Country	Date	University
Germany	1.10.2004 – 31.03.2005	Free University of Berlin (DAAD Fellowship)
Netherlands	01.2005	Eindhoven Technical University
Denmark	02.2005	Rodby
Turkey	13.08.2007–18.08.2007	Middle East Technical University (6 th ISAAC congress)
USA	05.03.2008 – 09.03.2008	Vanderbilt University (SEAM 2008)
UK	13.08.2009 – 18.08.2009	Imperial College London (7 th ISAAC Congress)
Spain	07.07.2010 – 12.07.2011	University of Santiago de Compostela (ERASMUSMUNDUS Scholarship)
Italy	01.02.2012 – 01.03.2012	ICTP (visiting fellowship)
Germany	27.08.2011 – 03.09.2011	University of Göttingen (summer school)
Spain	10.03.2012 – 29.03.2012	University of Santiago de Compostela (visiting professor)
Russia	28.05.2012 – 03.06.2012	NIIPMA (2 nd Russian-Uzbek Symposium)

SELECTIVE LIST OF PUBLICATIONS

1. **Nieto J.J. and Karimov E.T.** On an analogue of the Holmgren's problem for 3d singular elliptic equation. *Asian and European Journal of Mathematics (AEJM)*, Vol.5, No 2 (**2012**) 1250021 (18 pages) DOI: 10.1142/S1793557112500210.
2. **A.S.Berdyshev, A.Cabada, E.T.Karimov.** On a non-local boundary problem for a parabolic-hyperbolic equation involving Riemann-Liouville fractional differential operator. *Nonlinear analysis* 75(**2012**), 3268-3273. Doi:10.1016/j.na.2011.12.033.
3. **A.S.Berdyshev, E.T.Karimov and N.Akhtaeva.** Boundary value problems with integral gluing conditions for fractional order mixed type equation. *International Journal of Differential Equations*, Volume **2011**, Article ID 268465, 10 pages doi:10.1155/2011/268465.
4. **Nieto J.J. and Karimov E.T.** The Dirichlet problem for 3-D elliptic equation with two singular coefficients. *Computers and Mathematics with applications (CAMWA)*, 62(1), **2011**, pp.214-224.
5. **Urinov A.K. and Karimov E.T.** On fundamental solutions for 3D singular elliptic equations with a parameter, *Applied Mathematics Letters (AML)*, 24(3), **2011**, pp.314-319.
6. **Rassias J.M. and Karimov E.T.** Boundary-value problems with initial non-local condition for parabolic equations with parameter. *European Journal of Pure and Applied Mathematics (EJPAM)*, 3(6), **2010**, pp.948-957.

7. **Karimov E.T.** A boundary-value problem for three-dimensional elliptic equation with singular coefficients. *Uzbek Mathematical Journal*, Number 2, **2010**, pp. 56-66.
8. **Karimov E.T.** On the Dirichlet problem for three dimensional elliptic equation with singular coefficient. *Reports of the Academy of Sciences of the Republic of Uzbekistan (DAN RUz)*, Number 2, **2010**, pp. 9-12.
9. **Karimov E.T.** On a boundary problem with Neumann's condition for 3D singular elliptic equations, *Applied Mathematics Letters (AML)*, 23(5), **2010**, pp.517-522.
10. **Hasanov A., Karimov E.T.** Fundamental solutions for a class of three-dimensional elliptic equations. *Applied Mathematics Letters (AML)*, 22(12), **2009**, pp.1828-1832.
11. **Karimov E.T.** Some non-local problems for the parabolic-hyperbolic type equation with complex spectral parameter. *Mathematische Nachrichten (MN)*, 281(7), **2008**, pp.959-970.
12. **Karimov E.T., Eshmatov B.E.** Boundary-value problems with continuous and special gluing conditions for parabolic-hyperbolic type equations. *Central European Journal of Mathematics (CEJM)*, 5(4), **2007**, pp.741-750.
13. **Karimov E.T.** Non-local problems with special gluing condition for the parabolic-hyperbolic type equation. *PanAmerican Mathematical Journal*, 17(2), **2007**, pp.11-20.
14. **Berdyshev A.S., Karimov E.T.** Non-local boundary-value problems with special gluing conditions for parabolic-hyperbolic equation. *Reports of the Academy of Sciences of the Republic of Uzbekistan (DAN RUz)*, Number 3, **2006**, pp. 14-16.
15. **Berdyshev A.S., Karimov E.T.** Some-non-local problems for the parabolic-hyperbolic type equation with non-characteristic line of changing type. *Central European Journal of Mathematics (CEJM)*, 4(2), **2006**, pp.183-193.
16. **Karimov E.T.** About the Tricomi problem for the mixed parabolic-hyperbolic type equation with spectral parameter. *Complex Variables and Elliptic Equations*, 50(6), **2005**, pp.433-440.
17. **Berdyshev A.S., Karimov E.T.** Non-local problems for parabolic-hyperbolic type equations with spectral parameter. (Russian. English, Uzbek summaries). *Uzbek Mathematical Journal*, Number 4, **2005**, pp.22–36.
18. **Karimov E.T.** On the existence of a solution of two non-local problems for an equation of mixed type with a spectral parameter. (Russian. English, Uzbek summaries). *Uzbek Mathematical Journal*, Number 3-4, **2003**, pp.16–24.