

DR. ERKINJON KARIMOV

Scientist | Educator



CONTACT:

Private address:



Aviasozlar 4,
Yashnobod,
Tashkent,
Uzbekistan



+998909107484



erkinjon@gmail.com

Office address:



Fergana State University,
Faculty of Mathematics
and Informatics,
Department of
Mathematical analysis and
Differential Equations

Murabbiylar str. 19
150100 Fergana,
Uzbekistan

Social Nets:



+998909107484



@ErkinjonKarimov

LINKS:



[Erkinjon
Karimov](#)



[Erkinjon
Karimov](#)



[0000-0003-
4443-6300](#)



[Erkinjon
Karimov](#)



[AAZ-2307-
2020](#)



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EDUCATION:

2020 DSc. (*equal to habilitation*) in Mathematics and Physics, Institute of Mathematics, Uzbekistan Academy of Sciences.

2006 PhD in Mathematics and Physics, Institute of Mathematics, Uzbekistan Academy of Sciences.

1998 Diploma in Mathematics, Fergana State University, Uzbekistan

PROFESSIONAL EXPERIENCE:

2022 – now *Professor, Fergana State University, Fergana, Uzbekistan*

2021 – 2022 *Associate Professor, Fergana State University, Fergana, Uzbekistan*

2005 – 2021 *Research Associate (Lecturer), Junior Researcher (Assistant Professor), Senior Researcher (Associate Professor), Leading Researcher (Professor), V.I.Romanovskiy Institute of Mathematics, Uzbekistan Academy of Sciences, Tashkent, Uzbekistan*

2001-2002 *Probationer Researcher, Fergana State University, Fergana, Uzbekistan*

1998 – 2001 *Teacher of Mathematics, Special school for gifted pupil, Baghdad district, Fergana region, Uzbekistan*

Part time Affiliation

2021 – present *Leading researcher, V.I.Romanovskiy Institute of Mathematics, Uzbekistan Academy of Sciences, Tashkent.*

2022 – 2023 *Professor, IT Park University, Tashkent, Uzbekistan*

2020 – 2021 *Associate Professor, Ajou University in Tashkent, Tashkent, Uzbekistan*

2019, 2022 *Visiting Scientist, Gent University, Belgium*

2016 – 2024 *Visiting Faculty, Sultan Qaboos University, Muscat, Oman*

2015 *Postdoc, Sultan Qaboos University, Muscat, Oman*

2010-2011 *Postdoc, University of Santiago de Compostela, Spain*

2007-2008 *Assistant Professor, Syrdaria University, Zhetisay, Kazakhstan*

MEMBERSHIP:

2019 Analysis and PDE Research Group (Gent University, Belgium)

2015 The World Academy of Sciences Young Alumni (TWAS YA)

2010 Uzbek Mathematical Society (UMS)

2007 International Society for Analysis and its Applications and Computation (ISAAC)

SCIENTIFIC INTEREST:

Partial Differential Equations
Ordinary Differential Equations
Fractional order Differential
Equations
Boundary-value Problems
Inverse Problems
Mathematical Modeling
Special functions

EDITOR:

Bulletin of the Institute of
Mathematics (Managing Editor)
Uzbek Mathematical Journal (*Review
Editor*)

PUBLICATIONS:

45 articles (Q1(12), Q2(8), Q3(15),
>540 citations (per document is 7), h-
index is 14,
70% Intern. Collab. (*Scopus*)

CONFERENCES:

4 conferences organized
4 invited talks
20 oral presentations
3 poster presentations

TEACHING:

Integral Equations (*grad.*)
Operator Theory in Banach Spaces
(*grad.*)
Integral and Measure theory (*grad.*)
Partial Differential Equations
(*undergrad.*)
Business Mathematics (*undergrad.*)
Calculus 1 (*undergrad.*)
Calculus 2 (*undergrad.*)
Calculus 2 for Math Majors
(*undergrad.*)
Calculus 3 (*undergrad.*)
Differential Equations for Engineers
(*undergrad.*)
Linear Algebra and Multivariable
Calculus (*undergrad.*)

LANGUAGES:

Uzbek	●	●	●	●	●
English	●	●	●	●	○
Russian	●	●	●	●	○
German	●	●	○	○	○

DAAD

Deutscher Akademischer Austauschdienst
German Academic Exchange Service



AWARDS, PRIZES, AND OTHER SCHOLARLY DISTINCTIONS:

- 2016** ICMS Fellowship, International Center for Mathematical Sciences, Edinburg, UK
2015 TWAS Young Affiliate
2015 ERASMUNDUS Academic mobility fellowship, University of Las Palmas de Gran Canaria, Spain
2013 TWAS-CAS Visiting Fellowship, The World Academy of Sciences and Chinese Academy of Sciences
2012 ICTP Visiting Fellowship, International Centre for Theoretical Physics, Trieste, Italy
2011 TWAS Prize for Young Researchers
2010 ERASMUNDUS Postdoctoral fellowship, University of Santiago de Compostela, Spain
2005 Qori-Niyoziy stipendium for PhD students
2004 DAAD Fellowship, Free University Berlin, Germany

LIST OF IMPORTANT PUBLICATIONS:

- Karimov E.T.** et al. A boundary problem for the time-fractional Hallaire–Luikov moisture transfer equation with Hilfer derivative. *Comp. Appl. Math.* 2023, 42, 94. <https://doi.org/10.1007/s40314-023-02231-y>
Karimov E.T. et al. Solvability of the boundary-value problem for a mixed equation involving hyper-Bessel fractional differential operator and bi-ordinal Hilfer fractional derivative. *Math. Meth. Appl. Sci.*, 2023, 46(1), pp.54-70.
Karimov E.T. et al. Cauchy type problems for fractional differential equations, *Integral Transforms and Special Functions*, 2022, 33(1), pp.47-64.
Karimov E.T. et al. Non-local initial problem for second order time-fractional and space-singular equation. *Hokk. Math. Jour.* 2020, 49, pp.349-361.
Karimov E.T. et al. Initial boundary value problems for a fractional differential equation with hyper-Bessel operator. *Fract. Calc. Appl. Anal.* 2018, 21(1), pp.200-219.
Karimov E.T. et al. Unique solvability of a non-local problem for mixed-type equation with fractional derivative. *Mathematical Methods in the Applied Sciences.* 2017, 40(8), pp.2994-2999.
Karimov E.T. et al. Inverse source problems for time-fractional mixed parabolic-hyperbolic type equations. *Journal of Inverse and Ill-posed problems.* 2015, 23(4), pp.339-353.
Karimov E.T. et al. Spatial boundary problem with the Dirichlet-Neumann condition for a singular elliptic equation. *Applied Mathematics and Computation (AMC).* 2012, 219, pp.3469-3476.
Karimov E.T. et al. Fundamental solutions for a class of three-dimensional elliptic equations. *Applied Mathematics Letters (AML)*, 2009, 22(12), pp.1828-1832.

ADMINISTRATIVE DUTIES:

- Member of special committee for obtaining degrees “Doctor of Philosophy” on specialties: 01.01.02-differential equations (2021-present)
- Member of scientific-technic committee in “Mathematics, Physics, Mechanics” of the Ministry of Innovation of Uzbekistan (2019, 2022)
- 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 (2012)
- Leader of the committee “Young scientists of the Institute of Mathematics” (2012-2014).