Tetiana Revina

Date of birth: 05/04/1980 | **Nationality:** Ukrainian | **Phone number:**

(+380) 0955251967 (Mobile) | **Phone number:** (+380) 577075518 (Work) | **Email address:**

t.revina@karazin.ua | **Address:** Svobody Sq., 4, audience 7-28, 61022, Kharkiv, Ukraine (Work)

WORK EXPERIENCE

31/08/2017 – CURRENT Kharkiv, Ukraine
ASSOCIATE PROFESSOR V. N. KARAZIN KHARKIV NATIONAL UNIVERSITY

I teach courses:
- Mathematical Analysis
- Differential Equations
- Calculus of Variations
- Optimization Methods
- Control Theory
- Control Theory for Robust Systems
- Stability Theory
- Optimization methods and soft computing·
- Game Theory
- Fuzzy Logic

Research interests:
- Control Theory
- Finite-time Stabilization
- Controllability Function Method
- Uncertain Systems
- Feedback for Robust Systems
- Controllability of Mechanical Systems

31/08/2011 – 30/08/2017 Kharkiv, Ukraine
ASSISTANT PROFESSOR V. N. KARAZIN KHARKIV NATIONAL UNIVERSITY

EDUCATION AND TRAINING

01/03/2024 – 30/06/2024 Wildau, Germany
DAAD PROJECT 57722094 DAAD

Website https://wildau-it-bridge.de/

30/09/2018 – 04/10/2018 Murcia, Spain
CERTIFICATE IN ERASMUS+ INTERNATIONAL CREDIT MOBILITY PROGRAMME University of Murcia

Website www.um.es/en/ | **Field of study** Teacher training with subject specialisation

30/11/2016 – 30/04/2017 Kharkiv, Ukraine
PHD IN DIFFERENTIAL EQUATIONS, MATHEMATICS SUBJECT CLASSIFICATION: 93 – SYSTEMS THEORY; CONTROL V. N. Karazin Kharkiv National University

Scientific advisor: Professor Valery I. Korobov

Address Svobody Sq, 4, 61022, Kharkiv, Ukraine | **Website** http://dspace.univer.kharkov.ua/handle/123456789/14445 |

Field of study Education science | **Final grade** PhD | **Thesis** PhD Thesis "On feedback for robust linear systems"

31/10/2002 – 30/10/2006 Kharkiv, Ukraine

POSTGRADUATE EDUCATION IN DIFFERENTIAL EQUATIONS V. N. Karazin Kharkiv National University

Address Svobody Sq., 4, 61022, Kharkiv, Ukraine ⎪ **Website** www.univer.kharkov.ua

31/08/1997 – 29/06/2002 Kharkiv, Ukraine

MASTER IN APPLIED MATHEMATICS (WITH HONORS) V. N. Karazin Kharkiv National University

Address Svobody Sq., 4, 61022, Kharkiv, Ukraine

HONOURS AND AWARDS

01/04/2024

Diploma of the 2nd degree of the Ukrainian competition of student scientific reserches – V. N. Karazin Kharkiv National University

I was the scientific advisor of
Dinaburska Maryna, diploma of the 2nd degree of the Ukrainian competition of student scientific reserches in the V. N. Karazin Kharkiv National University in 2023/2024 academic year, specialty mathematics and statistics, applied mathematics (mechanics).

01/2023

Certificate of Fellowship Program of the Universities for Ukraine (U4U)

LANGUAGE SKILLS

Mother tongue(s): **UKRAINIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
RUSSIAN	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Office ⎪ Latex: advanced user ⎪ Good knowledge of Wolfram Mathematica ⎪ Mathematical Skills

PUBLICATIONS

2024

Korobov V. I., Revina T. V. On the feedback synthesis for an autonomous linear system with perturbations.

Journal of Dynamical and Control Systems

2023

Participation online of Prof. Tetiana Revina in the Colloquium

Center for Dynamics and Nonl. Science in the School of Math. at the Georgia Institute of Technology

2021

Korobov V. I., Revina T. V. On perturbation range in the feedback synthesis problem for a chain of integrators system

IMA J. Math. Control and Information, 2021, 38(1), pp. 396-416.

2021

Korobov V. I., Revina T. V. Oscillations damping of the material point on the spring at the inexactly defined spring stiffness

Mekhanika. Issledovaniya i innovachii. Gomel, 2021, Vol. 14, pp. 105-111 (Russian)

2017
Korobov V. I., Revina T. V. On robust feedback synthesis for systems with multidimensional control

Journal of Mathematical Physics, Analysis, Geometry, 2017, Vol. 13, No. 1, pp. 35-56.

2017
Korobov V. I., Revina T. V., Moiseeva O. O. On the feedback synthesis problem for one robust oscillating system

Mekhanika. Issledovaniya i innovachii. Gomel, 2017, Vol. 10, pp. 99-105, ISSN 2519-8742. (Russian)

2016
Korobov V. I., Revina T. V. Robust feedback synthesis for the canonical system

Ukr. Math. J., 2016, Vol. 68, No. 3, pp. 380-398.

2016
Korobov V. I., Revina T. V. Controllability of the material point motion considering the unknown friction

Mekhanika. Issledovaniya i innovachii. Gomel, 2016, Vol. 9, pp. 61-66, ISSN 2227-1104. (Russian)

2015
Korobov V. I., Revina T. V. The solution of the robust feedback synthesis problem for a canonical system

DAN Ukraini, 2015, Vol. 6, pp. 13-18. (Russian)

2014
Korobov V. I., Revina T. V. Robust feedback synthesis problem for systems with a single perturbation

Communications in Mathematical Analysis, 2014, Vol. 17, no. 2, pp. 217-230.

2014
Revina T. V. Several approaches to delimiting a perturbation in the global robust feedback synthesis problem

Visn. Khark. Univ., Ser. Mat. Prykl. Mat. Mekh., 2014, Vol. 1133, Issue 70, pp. 140-155 (Russian)

ORGANISATIONAL SKILLS

From September 2018 till August 2019 I was Deputy Dean for Education

I was the local organizer of the Mirror of the 79th William Lovel Putnam Mathematical Competition in the Kharkiv region, Ukraine, which was held on December 2, 2018

Good organisational skills gained as a secretary of the Department of Applied Mathematics seminar in V. N. Karazin Kharkiv National University

During 4 years (2015-2019) I was the mentor of the academic group, I help students to solve their various problems. Since 2022, I am again a mentor of the group.

During education at the university and postgraduate education I was the monitor

SITATIONS

https://scholar.google.com.ua/citations?user=mTbRrbcAAAAJ&hl=uk&oi=sra

MATHEMATICS GENEALOGY PROJECT

http://www.genealogy.ams.org/id.php?id=226673

- **PROJECTS**

Shihao Zhang, Master Degree in Mathematics, "Convergence analysis of the Levenberg–Marquardt algorithm", 2024, V. N. Karazin Kharkiv National University and Hangzhou Normal University

I was the scientific advisor of

Borzenkov Andrii, Master Degree in Applied Mathematics, "Multiple imputation as a valid way of dealing with missing data", 2024, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Dinaburska Maryna, Bachelor Degree in Applied Mathematics, "On the synthesis problem for one nonlinear controllable system", 2024, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Starytska Kateryna, Bachelor Degree in Applied Math. "The envelope of a family of ellipses that arises when solving the inertial control synthesis problem for a two-dimensional canonical system ", 2023, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Zhuravlev Dmitro, Bachelor Degree in Applied Mathematics , "The solution of the inertial controls synthesis problem for the canonical system ", 2019, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Samoilenko Hanna, Bachelor Degree in Applied Mathematics , "The general method for solving the local feedback synthesis problem for double integrator system ", 2019, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Moiseienko Nataliia, Master Degree in Applied Mathematics, "The solution of the feedback synthesis for one system based on the admissible maximum principle", 2018, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Nevmerzhytska Olena, Master Degree in Applied Mathematics, "On feedback synthesis for one robust three-dimensional system ", 2018, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Vysotskiy Nikita, Bachelor Degree in Applied Mathematics , "Several approaches for solving feedback synthesis problem for one three-dimensional system", 2018, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Chuiko Vladyslav, Bachelor Degree in Applied Mathematics, "Stopping of oscillations of controlled elliptic pendulum", 2018, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Moiseeva Olena, Bachelor Degree in Applied Mathematics, "On the robust feedback of connected oscillator", 2017, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Varnavskaya Nadegda, Bachelor Degree in Applied Mathematics, "On the feedback synthesis problem of connected oscillator", 2016, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

Kozhukhov Yevgeniy, Master Degree in Applied Mathematics, "Stopping of vibrations of the nonlinear robust mechanical pendulum-type system", 2015, V. N. Karazin Kharkiv National University

I was the scientific advisor of

Titov Dmitry, Bachelor Degree in Applied Mathematics, "The controllability of robust systems" , 2013, V. N. Karazin Kharkiv National University.

I was the scientific advisor of

- **ID**

ID

ORCID identifier: 0000-0002-0517-622X
Scopus ID: 56458385400
MR Autor ID: 1091313
ResearcherID Web of Science: IWD-7530-2023