



**SUKRETNA Anna Vasylivna**

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Sex: female

Date of birth: 24/06/1982

Citizenship: Ukraine

Scientific degree: Ph.D. in Physics and Mathematics (01.01.02 – differential equations)

Academic status: no

Position: docent

Department: Integral and Differential Equations

Faculty: Mechanics and Mathematics

Profiles in academic research databases:

**SCOPUS:** <https://www.scopus.com/authid/detail.uri?authorId=8615955600> (Scopus ID: 8615955600)

**ORCID:** <https://orcid.org/0000-0002-2985-1250> (ORCID ID: 0000-0002-2985-1250)

**GOOGLE SCHOLAR:** [https://scholar.google.com/citations?user=oNb7\\_VQAAAJ&hl=uk](https://scholar.google.com/citations?user=oNb7_VQAAAJ&hl=uk)

**Educational disciplines in which teaching took part:**

<i>Name of disciplines</i>	<i>Educational degree, course (year of study), type of educational tasks</i>
Differential Equations	Bachelor, 2nd year, lectures, practical classes
Differential Geometry	Bachelor, 3rd year, lectures, practical classes
Mathematical Analysis	Bachelor, 2nd year, practical classes
Higher Mathematics	Bachelor, 1st year, lectures, practical classes
Mathematics	Preparatory department

Differential Mathematical Models. Scientific Seminar on Differential Equations, Dynamical Systems and Mathematical Modeling.	Bachelor, 4th year, lectures
Optimal Control for Linear Systems	Bachelor, 4th year, lectures
Dynamical Models of Mathematical Economics	Bachelor, 4th year, lectures
Modern Optimal Control Theory	Master, 1 year of study, lectures
Methods of Global Analysis for Nonlinear Systems	Master, 1 year of study, lectures

### Experience of scientific and scientific-pedagogical work:

From 22/12/2012 for now	Associate Professor, Department of Integral and Differential Equations, Mechanics and Mathematics Faculty, Taras Shevchenko National University of Kyiv <a href="https://knu.ua/">https://knu.ua/</a> Education
From 01/09/2007 to 21/12/2012	Assistant of the Department of Integral and Differential Equations, Mechanics and Mathematics Faculty, Taras Shevchenko National University of Kyiv <a href="https://knu.ua/">https://knu.ua/</a> Education
From 01/10/2005 to 31/08/2007	Postgraduate study at the Department of Integral and Differential Equations, Mechanics and Mathematics Faculty, Taras Shevchenko National University of Kyiv <a href="https://knu.ua/">https://knu.ua/</a> Education/science
From 02/06/2005 to 30/09/2005	Lead engineer of the Department of Differential Equations and Oscillation Theory of the Institute of Mathematics of the National Academy of Sciences of Ukraine <a href="https://www.imath.kiev.ua/">https://www.imath.kiev.ua/</a> Science

### Training and internship:

From 07/02/2012 to 30/05/2012	Institute of Mathematics of the National Academy of Sciences of Ukraine (consultant Doctor of Physical and Mathematical Sciences, Professor, Corresponding Member of the National Academy of Sciences of Ukraine, Head of the Laboratory of the Department of Differential Equations and Theory of Oscillations Boychuk O.A.) <a href="https://www.imath.kiev.ua/">https://www.imath.kiev.ua/</a>
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## Personal skills:

<b>Native language:</b>	Ukrainian, fluency
<b>Foreign languages:</b>	Russian – fluency English – basic level (B2)
<b>Communication skills:</b>	A high level of communication skills is obtained as a result of regular communication with students, including foreign ones
<b>Digital competencies:</b>	<i>According to the Certificate Cyfrogramm:</i> Fundamentals of computer literacy - high level (C2) Information processing - basic level (B2) Communication - high level (C2) Content creation - basic level (B2) Network and software security - basic level (B2) Problem solving - basic level (B2)
<b>Other computer skills:</b>	Knowledge of Word and LaTeX editors, basic knowledge of the Excel and Google spreadsheets, creating presentations in Power Point, basic photo processing
<b>Area of professional interests:</b>	Differential equations, mathematical modeling of economic-social and medical-biological processes, variational calculus and optimal control, optimal control of systems with distributed parameters

## Scientific publications:

1. *Kapustyan O.V., Kapustyan O.A., Sukretna A.V.* Approximate bounded synthesis for distributed systems. – Saarbrücken, Germany: LAP LAMBERT Academic Publishing, 2013. – 4+223 p.
2. *Kapustyan, O.V., Kapustyan, O.A., Sukretna, A.V.* Approximate stabilization for a nonlinear parabolic boundary-value problem. – Ukrainian Mathematical Journal. – 2011. – 63(5). – pp. 759 – 767.
3. *Kapustyan, O.V., Kapustyan, O.A., Sukretna, A.V.* Approximate bounded synthesis for one weakly nonlinear boundary-value problem. – Nonlinear Oscillations. – 2009. – 12(3). – pp. 297 – 304.
4. *Sukretna, A.V.* Bounded approximate synthesis of the optimal control for the wave equation. – Ukrainian Mathematical Journal. – 2007. – 59(8). – pp. 1212 – 1223.
5. *Sukretna, A.V.* Approximate optimal stabilization of solutions of a parabolic boundary-value problem by bounded control. – Nonlinear Oscillations. – 2006. – 9(2). – pp. 257 – 273.
6. *Kapustyan, O.A., Sukretna, A.V.* Approximate averaged synthesis of the problem of optimal control for a parabolic equation. – Ukrainian Mathematical Journal. – 2004. – 56(10). – pp. 1653 – 1664.
7. *Kapustyan, O.A., Sukretna, A.V.* Averaged synthesis of the optimal control for a wave equation. – Ukrainian Mathematical Journal. – 2003. – 55(5). – pp. 739 – 748.

**Prizes and awards:** He is a laureate of the prize of the National Academy of Sciences of Ukraine for students of higher educational institutions in 2004.