

CURRICULUM VITAE



Olena Atlasiuk

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Institute of Mathematics*

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PERSONAL INFORMATION

Date of Birth: June 13, 1994

Place of Birth: Zolota Balka Village, Kherson Region, Ukraine

Citizen: Ukrainian

Home Address: 03143 Ukraine, Kyiv, 148a Zabolotnoho st., ap. 424

Position: Researcher, Ph.D.

Office: 01024 Ukraine, Kiev-4, 3 Tereshchenkivska st.

Languages: Ukrainian (native), English

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[Google Scholar](#); [ResearchGate](#)

EDUCATION

Kherson State University 2011–2015

Faculty of Physics, Mathematics and Informatics, bachelor degree (with honour)

Kherson State University 2015–2016

Faculty of Physics, Mathematics and Informatics, master degree (with honour)

Institute of Mathematics, NAS of Ukraine 2016–2020

Department of Nonlinear analysis, Ph.D.-student

Date of defense: November 30, 2020. Dissertation title: "One-dimensional Fredholm boundary-value problems with parameter". The thesis is devoted to study the characteristics of solvability and continuity in a parameter of solutions of the most general classes of one-dimensional generic inhomogeneous boundary-value problems for the systems of linear ordinary differential equations of arbitrary order in Sobolev spaces on a finite interval. Supervisor: Head of the Laboratory of PDE, Prof. Dr. Hab. [Volodymyr Mikhailets](#)

RESEARCH EXPERIENCE

Junior researcher, Ph.D. 2020–2022

Institute of Mathematics, NAS of Ukraine

Researcher from 2022

Institute of Mathematics, NAS of Ukraine

Postdoctoral fellow 2022–2023

Institute of Mathematics, Czech AS

AWARDS AND DISTINCTIONS

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| Scholarship of the NAS of Ukraine <i>for young scientists</i> | 2021–2022 |
| Neuron Grant <i>for young Ukrainian scientist</i> | 2022 |

SCIENTIFIC RESEARCH PROJECT

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| Scientific research work for young scientists of the NAS of Ukraine <i>0121U111949, performer</i> | 2021–2022 |
| Research project of T. Shevchenko National University and NASU <i>3M–2022, performer</i> | 2022–2023 |

PUBLIC ACTIVITIES

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| Secretary of the Council of Young Scientists <i>Department of Mathematics of the NAS of Ukraine</i> | from 2021 |
| Member of the Council of Young Scientists <i>Institute of Mathematics of the NAS of Ukraine</i> | from 2020 |

CONFERENCES AND VISITS

- ✓ XXXII Seminar in Differential Equations, Alfrédov, Czech Republic, May 2022 (*Oral talk*)
- ✓ The international online conference "Current trends in abstract and applied analysis", Ivano-Frankivsk, Ukraine, May 2022 (*Oral talk*)
- ✓ Generalized Functions Online Workshop dedicated to the international day for women in Mathematics and the birthday of Maryam Mirzakhani (online), Technische Universität Wien, University of Novi Sad, University of Vienna, May 2022 (*Oral talk*)
- ✓ Seminar on Differential Equations and Integral Theory at the Evolution Differential Equations Department of Institute of Mathematics of the Czech Academy of Sciences, Prague, Czech Republic, 24 March 2022 (*Oral talk*)
- ✓ Conference "Rencontre Poisson", University of La Rochelle, La Rochelle, France, October 2021 (*Listener*)
- ✓ NSF/CBMS Conference: Gaussian Random Fields, Fractals, SPDEs, and Extremes, The University of Alabama in Huntsville, Tuscaloosa, Alabama, United States, August 2021 (*Oral talk*)
- ✓ Online Summer School on Geometry and Topology, University of Hradec Králové, Hradec Králové, Czech Republic, August 2021 (*Oral talk*)
- ✓ Integrable Systems in Geometry and Mathematical Physics, Conference in Memory of Boris Dubrovin (online), Trieste, Italy, June 2021 (*Oral talk*)

- ✓ The 8th European Congress of Mathematics (8ECM), Portorož, Slovenia, June 2021 (*Oral talk*)
- ✓ Satellite conference of the 8th European Congress of Mathematics "Contemporary Analysis and Its Applications", Portorož, Slovenia, June 2021 (*Listener*)
- ✓ Workshop MCQM21 "Mathematical Challenges in Quantum Mechanics", Como, Italy, June 2021 (*Listener*)
- ✓ International Conference of Young Mathematicians, Kyiv, Ukraine, June 2021 (*Oral talk*)
- ✓ The conference of young scientists "Pidstryhach readings — 2021", Lviv, Ukraine, May 2021 (*Oral talk*)
- ✓ Seminar of young scientists of the Institute of Mathematics of the NAS of Ukraine, Kyiv, Ukraine, 22 February 2021 (*Oral talk*)
- ✓ International Workshop on the Qualitative Theory of Differential Equations "QUALITDE — 2020", Tbilisi, Georgia, December 2020
- ✓ 3rd BYMAT (Bringing Young Mathematicians Together) Conference, Valencia, Spain, December 2020 (*Oral talk*)
- ✓ XI International Skorobohatko Mathematical Conference, Lviv, Ukraine, October 2020 (*Oral talk*)
- ✓ International scientific conference "Modern problems of Differential Equations and their application", dedicated to the 100th anniversary of the professor S.D. Eidelman, Chernivtsi, Ukraine, September 2020 (*Oral talk*)
- ✓ Common meeting of Departments Differential equations and oscillation theory and Nonlinear analysis of Institute of Mathematics of the NAS of Ukraine, Kyiv, Ukraine (meeting leaders: Academician of the NAS of Ukraine A. M. Samoilenko, Corresponding Member of the NAS of Ukraine A. N. Kochubei), 15 September 2020 (*Oral talk*)
- ✓ The conference of young scientists "Pidstryhach readings — 2020", Lviv, Ukraine, May 2020 (*Oral talk*)
- ✓ International scientific and practical conference "Shevchenkivska Vesna — 2020: Mathematics, statistics, mechanics. Applied mathematics, computer science, software engineering, system analysis", Kyiv, Ukraine, April 2020 (*Oral talk*)
- ✓ Seminar "Spectral and boundary-value problems" of Laboratory of differential equations with partial derivatives of the Institute of Mathematics of the NAS of Ukraine, Kyiv, Ukraine (seminar leader: Professor V. A. Mikhailets), 11 February 2020 (*Oral talk*)
- ✓ International Conference "Supergeometry, supersymmetry and quantization", Esch-sur-Alzette, Grand Duchy of Luxembourg, December 2019 (*Poster*)
- ✓ International Workshop on the Qualitative Theory of Differential Equations "QUALITDE — 2019", Tbilisi, Georgia, December 2019
- ✓ International scientific conference "Problems of Theoretical and Mathematical Physics", Kyiv, Ukraine, September 2019 (*Oral talk*)

- ✓ Summer School on Geometry and Topology, University of Hradec Králové, Hradec Králové, Czech Republic, August 2019 (*Oral talk*)
- ✓ International Conference "Functional Methods in Approximation Theory, Differential Equations and Numerical Mathematics IV", Svityaz' village, Volyn' region, Ukraine, June 2019 (*Oral talk*)
- ✓ International Conference of Young Mathematicians, Kyiv, Ukraine, June 2019 (*Oral talk*)
- ✓ International scientific conference "Modern problems of mathematics and its application in natural sciences and information technologies", Chernivtsi, Ukraine, September 2018 (*Oral talk*)
- ✓ XIII-th Summer School "Analysis, Topology and Applications", Vyzhnytsya town, Chernivtsi region, Ukraine, August 2018
- ✓ Summer School of Algebraic Geometry, University of Hradec Králové, Hradec Králové, Czech Republic, August 2018 (*Oral talk*)

PUBLICATIONS

Articles

1. Atlasiuk, O. M. [Limit theorems for solutions of multipoint boundary-value problems with a parameter in Sobolev spaces](#). Ukrainian Math. J. 72 (2021), no. 8, 1175–1184. *Q2, Impact Factor 0,446, SNIP 0,61, SJR 0,325* DOI: 10.1007/s11253-020-01859-x
2. Atlasiuk, O. M.; Mikhailets, V. A. [On Fredholm parameter-dependent boundary-value problems in Sobolev spaces](#). Dopov. Nac. akad. nauk Ukr. (2020), no. 6, 3–6. DOI: 10.15407/dopovidi2020.06.003
3. Atlasiuk, O. M. [Limit theorems for solutions of multipoint boundary-value problems in Sobolev spaces](#). J. Math. Sci. 247 (2020), no. 2, 238–247. *Q3, SNIP 0,6, SJR 0,33* DOI: 10.1007/s10958-020-04799-w
4. Atlasiuk, O. M.; Mikhailets, V. A. [On solvability of inhomogeneous boundary-value problems in Sobolev spaces](#). Dopov. Nac. akad. nauk Ukr. (2019), no. 11, 3–7. DOI: 10.15407/dopovidi2019.11.003
5. Atlasiuk, O. M.; Mikhailets, V. A. [Fredholm one-dimensional boundary-value problems with parameter in Sobolev spaces](#). Ukrainian Math. J. 70 (2019), no. 11, 1677–1687. *Q2, Impact Factor 0,518, SNIP 0,72, SJR 0,427* DOI: 10.1007/s11253-019-01599-7
6. Atlasiuk, O. M.; Mikhailets, V. A. [Fredholm one-dimensional boundary-value problems in Sobolev spaces](#). Ukrainian Math. J. 70 (2019), no. 10, 1526–1537. *Q2, Impact Factor 0,518, SNIP 0,72, SJR 0,427* DOI: 10.1007/s11253-019-01588-w

Proceedings

1. Atlasiuk, O. [On linear generic inhomogeneous boundary-value problems for differential systems in Sobolev spaces](#). Proceedings of the 3rd Bringing Young Mathematicians Together Conference, Valencia, Spain: Proceedings. 171–174.

2. Atlasiuk, O.; Mikhailets, V. [On generic inhomogeneous boundary-value problems for differential systems in Sobolev spaces](#). International Workshop on the Qualitative Theory of Differential Equations "QUALITDE – 2020", Tbilisi, Georgia: Proceedings. 22–26.
3. Atlasiuk, O.; Mikhailets, V. [On Linear Boundary-Value Problems for Differential Systems in Sobolev spaces](#). International Workshop on the Qualitative Theory of Differential Equations "QUALITDE – 2019", Tbilisi, Georgia: Proceedings. 19–22.

Abstracts

- Atlasiuk, O. On solvability of inhomogeneous boundary-value problems in Sobolev spaces. XXXII Seminar in Differential Equations, 23 – 27 May 2022, Alfrédov, Czech Republic: Abstracts. Alfrédov: The Union of Czech Mathematicians and Physicists, P. 1.
- Atlasiuk, O.M; Mikhailets, V.A. One-dimensional Fredholm boundary-value problems with a parameter in Sobolev spaces. The international online conference "Current trends in abstract and applied analysis", 12 – 15 May 2022, Ivano–Frankivsk, Ukraine: Abstracts. Ivano–Frankivsk: Vasyl Stefanyk Precarpathian National University, P. 1.
- Atlasiuk, O. On solvability of one-dimensional boundary-value problems in Sobolev spaces. Generalized Functions Online Workshop dedicated to the international day for women in Mathematics and the birthday of Maryam Mirzakhani, 12 May 2022, Online: Abstracts. Technische Universität Wien, University of Novi Sad, University of Vienna, 2nd edition P. 2.
- Atlasiuk, O. On generic boundary-value problems for differential systems in Sobolev spaces. NSF/CBMS Conference: Gaussian Random Fields, Fractals, SPDEs, and Extremes, 2 – 6 August 2021, Tuscaloosa, Alabama, United States: Abstracts. Tuscaloosa: The University of Alabama in Huntsville, P. 8.
- Atlasiuk, O. On generic boundary-value problems for differential systems in Sobolev spaces. Online Summer School on Geometry and Topology, 7 July – 6 August 2021, Hradec Králové, Czech Republic: Abstracts. Hradec Králové: University of Hradec Králové, P. 1.
- Atlasiuk, O. On generic boundary-value problems for differential system, Integrable Systems in Geometry and Mathematical Physics, Conference in Memory of Boris Dubrovin, 28 June – 02 July 2021, Trieste, Italy: Abstracts. Trieste: Scuola Internazionale Superiore di Studi Avanzati (SISSA), P. 8.
- Atlasiuk, O. On linear inhomogeneous boundary-value problems for differential systems in Sobolev spaces. The 8th European Congress of Mathematics (8ECM), 20 – 26 June 2021, Portorož, Slovenia: Abstracts. Portorož: University of Primorska, P. 628–629.
- Atlasiuk, O. On linear generic boundary-value problems for differential systems in Sobolev spaces. International Conference of Young Mathematicians, 3 – 5 June 2021, Kyiv, Ukraine: Abstracts. Kyiv: Institute of Mathematics of NAS of Ukraine, P. 46.
- Atlasiuk, O.; Mikhailets, V. On solvability of Fredholm inhomogeneous boundary-value problems in Sobolev spaces. The conference of young scientists "Pidstryhach readings — 2021", 26 – 28 May 2021, Lviv, Ukraine: Abstracts. Pidstryhach Institute for Applied Problems of Mechanics and Mathematics of National Academy of Sciences of Ukraine, P. 1–2.

- Atlasiuk, O. On linear generic inhomogeneous boundary-value problems for differential systems in Sobolev spaces. 3rd BYMAT (Bringing Young Mathematicians Together) Conference, 1 – 3 December 2020, Valencia, Spain: Abstracts. University of Valencia, P. 60.
- Atlasiuk, O.; Mikhailets, V. On generic inhomogeneous boundary-value problems in Sobolev spaces. XI International Skorobohatko Mathematical Conference, 26 – 30 October 2020, Lviv, Ukraine: Abstracts. National Academy of Sciences of Ukraine, Pidstryhach Institute for Applied Problems of Mechanics and Mathematics, P. 9.
- Atlasiuk, O.; Mikhailets, V. On limit theorems for solutions of multipoint boundary-value problems with parameter in Sobolev spaces. International scientific conference "Modern problems of Differential Equations and their application", dedicated to the 100th anniversary of the professor S. D. Eidelman, 16 – 19 September 2020, Chernivtsi, Ukraine: Abstracts. Institute of Mathematics of NAS of Ukraine, Yuriy Fedkovych Chernivtsi National University, P. 86–87.
- Atlasiuk, O.; Mikhailets, V. On continuity in a parameter of solutions to inhomogeneous boundary-value problems in Sobolev spaces. The conference of young scientists "Pidstryhach readings — 2020", 26 – 28 May 2020, Lviv, Ukraine: Abstracts. Pidstryhach Institute for Applied Problems of Mechanics and Mathematics of National Academy of Sciences of Ukraine, P. 1–2.
- Atlasiuk, O. M. On solvability of one-dimensional boundary-value problems in Sobolev spaces. International scientific and practical conference "Shevchenkivska Vesna — 2020: Mathematics, statistics, mechanics. Applied mathematics, computer science, software engineering, system analysis", 15 – 16 April 2020, Kyiv, Ukraine: Abstracts. Taras Shevchenko National University of Kyiv, P. 5 – 6.
- Atlasiuk, O. M. On Fredholm one-dimensional boundary-value problems with parameter in Sobolev spaces. International conference "Problems of Theoretical and Mathematical Physics" dedicated to the 110th anniversary of M.M. Bogolyubov (1909 – 1992), 24 – 26 September 2019, Kyiv, Ukraine: Abstracts. Kyiv: Bogolyubov Institute for Theoretical Physics of NAS of Ukraine, Institute of Mathematics of NAS of Ukraine, P. 91.
- Atlasiuk, O. M. On Fredholm one-dimensional boundary-value problems with parameter in Sobolev spaces. International Conference "Functional Methods in Approximation Theory, Differential Equations and Numerical Mathematics IV", dedicated to the 100th anniversary of V. K. Dzyadyk (1919 – 1998), 20 – 26 June 2019, Svityaz' village, Volyn' region, Ukraine: Abstracts. Institute of Mathematics of NAS of Ukraine, Taras Shevchenko National University of Kyiv, Lesya Ukrainka Eastern European National University, P. 70–71.
- Atlasiuk, O. M. Limit theorems for solutions of multipoint boundary-value problems in Sobolev spaces. International Conference of Young Mathematicians, 6 – 8 June 2019, Kyiv, Ukraine: Abstracts. Kyiv: Institute of Mathematics of NAS of Ukraine, P. 49.
- Atlasiuk, O. M. On Fredholm one-dimensional boundary-value problems in Sobolev spaces. International scientific conference "Modern problems of mathematics and its application in natural sciences and information technologies" dedicated to the 50th anniversary of the Faculty of Mathematics and Informatics, 17 – 19 September 2018, Chernivtsi, Ukraine: Abstracts. Chernivtsi: Yuriy Fedkovych Chernivtsi National University, P. 13.

- Atlasiuk, O. M. On Fredholm one-dimensional boundary-value problems in Sobolev spaces. XIIIth Summer School "Analysis, Topology and Applications", 29 July – 11 August 2018, Vyzhnytsya town, Chernivtsi region, Ukraine: Abstracts. Yuriy Fedkovich Chernivtsi National University, Ivan Franko National University of Lviv, P. 56.