CV

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Google scholar: https://scholar.google.ru/citations?user=Et-eiu0AAAAJ&hl=ru

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Teaching experience in university

- KSEU University - algorithmization in C++ (first year, 2020)
- KFU University – Celestial mechanics, mathematical analysis, astronomical data processing, gravimetry, geophysics of the Earth, optimization methods, numerical methods (**2016 – to this day**)
- Innopolis University – linear algebra, differential equations, mathematical analysis, physics as teacher assessment (TA) **(2023-to this day)**

Research experience

- Junior Researcher at KFU, Institute of Physics, Research Center Center of Excellence for Cyberphysical Systems, IoT and IoE (2019 -to this day)
- Modeling of complex physical processes using python and C sharp programming languages
- Application of numerical methods, in particular from the Runge Kutta family, for solving nonlinear differential equations
- Building simple neural networks for solving applied problems in the course on the mathematical foundations of astronomical data processing

Publications are available at the link

https://kpfu.ru/main?p_id=37920&p_lang=&p_type=9&p_pub_type=20

- Петрова Н.К., Загидуллинн А.А., Нефедьев Ю.А., Андреев А.О., Налунные измерения физической либрации луны: методы и оценка точности. Переводная статья: Lunar-Based Measurements of the Moons Physical Libration: Methods and

Accuracy Estimates. Астрономический журнал. 2020. т. 97. № 12. с. 1042-050. // Astronomy Reports. 2020. vol.64. is.12. p. 1078-1086. Web of Science JIF2022=1.0

- Загидуллин А.А. Петрова Н.К., Нефедьев Ю.А., Гудкова Т.В. Усанин В.С., Физическая либрация Луны: расширенная проблема. // Переводная версия: Physical libration of the moon: an extended problem. Астрономический журнал. 2021. т. 98. № 1. с. 75-88 // Astronomy Reports. 2020. vol. 64. p. 1093–1106 Web of Science JIF2022=1.0
- Zagidullin A.A., Petrova N. K., Andreev A. O., Nefedyev Y. ADevelopment of the Theory of Physical Libration of the Moon Taking into Account the Lunar Two-Layer Model Including a Solid Mantle and a Liquid Core. Meteoritics & Planetary Science. 2022. vol. 57. is. 1. p. 6282. Web of Science JIF2022=2.2
- Zagidullin A.A., Petrova N.K., Nefedyev Yu.A., Andreev A.O. Creation of a generalized dynamic model of planetary moons based on an analytical approach for describing the libration processes of their rotation. St. Petersburg State Polytechnical University Journal: Physics and Mathematics. 2023. Vol. 16, No. 1.2, 517 – 522 Scopus SJR2022=0.38
- Petrova N.K., Zagidullin A.A., Nefedyev Yu.A., Andreev A.O.Building a Model of the Lunar Core Using Laser Ranging Observations of the Moon Tech. Phys. 69, 1463–1465 (2024)
- ЗагидуллинА.А., Усанин В.С. Решение задач по небесной механики Казань, учебно методическое пособие КФУ,2024,https://repository.kpfu.ru/?p_id=305416
- A. A. Zagidullin, Y. A. Nefedyev, A. O. Andreev, and N. K. Petrova Lunar Laser Ranging// Moscow University Physics Bulletin, **2025**, Vol. 80, Suppl. 1, pp. S459–S462. DOI: 10.3103/S0027134925702121
- A. A. Zagidullin, Y. A. Nefedyev, A. O. Andreev Analysis of the lunar core model for refinement of lunar ballistics// METEORITICS & PLANETARY SCIENCE **2025** Vol. 60/S1 Number article 5013 WOS:001652411800312
- A software package for analyzing the librational dynamics of complex systems \ Certificate of state registration of a computer program \ № 20186 64908 \2018
- A program for analyzing the parameters of a rotating body, taking into account its deformation and the influence of gravity of external bodies \ Certificate of state registration of a computer program\ №2020619628 \2020
- A software package for processing and analyzing experimental data from lunar laser ranging\ Certificate of state registration of a computer program\ №2026614989 \2026
- Certificate of State Registration of the Computer Program "Software Package for Processing and Analyzing Experimental Data from Lunar Laser Ranging" No. 2026614989, dated February 19, **2026**.

Other work experience

- Quentin School – Mathematics Teacher (2015-2016)
- STEM Center of Innopolis University – Robotics Coach (2017-2019)

- Lyceum Innopolis – Circuit Engineering (2019)
- The hodograph school- Physics Teacher by EGE (2019-2021)
- Private school “Progress” - Physics teacher for 7th and 8th grade students (2021-2022)
- Tutor in mathematics and physics by EGE (2013 **– to this day**)
- Innopolis University - instructor on programming (2021- **to this day**)
- Introduction of a YouTube channel on mathematics and physics https://www.youtube.com/@astronom_moon/playlists

Education

2011-2016	Specialty in the direction of astronomy at KFU - 101604 0031000. Awarded the qualification of Astronomy. Teacher
2016-2021	Postgraduate study at KFU in celestial Mechanics - 101604 0044649. The research topic is "Construction of a numerical theory of the Physical libration of the Moon". The assigned qualification is a Teacher. Researcher.
2020 -	Retraining in Data Scince at the SkillFactory school
2020	Data analysis based on machine learning - 023101071362 - Bashkir State University
2022	Programming deep neural networks in Python – 661610018342 – Ural Federal University
2023	Preparation of a dissertation on the topic "Numerical model of the physical libration of the Moon taking into account the elasticity parameters"
23.05.2024	PhD Candidate of Physical and Mathematical Sciences. The topic of the dissertation is the development of a numerical model of physical libration for the elastic moon model. https://dissovet.msu.ru/dissertation/2942

Hobby

- Climbing
- Cycling
- Mountain and water sports trips