

Stevan Armaković, PhD

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<https://armakovic.com>

<https://emos.armakovic.com>

<https://atomistica.online>

<https://aidasco.org>



WORK EXPERIENCE

2022 – PRESENT

CO-FOUNDER & LEAD DEVELOPER, ATOMISTICA.ONLINE

- Registered business entity and open-access platform for atomistic calculations and molecular modeling: <https://atomistica.online>
- Development of molecular modeling and AI-driven tools (online applications, GUIs for xTB/ORCA/PSI4/Multiwfn, ML models for ionic liquids, molecular systems generators)
- Scientific programming and deployment of web applications
- Development of laboratory information management systems (LIMS)
- Bridging academia and industry by providing computational tools for researchers and companies.
- Active participation in international networks and collaboration with universities, research institutes, and industrial partners

2020 – PRESENT

BOARD PRESIDENT, ASSOCIATION FOR THE INTERNATIONAL DEVELOPMENT OF ACADEMIC AND SCIENTIFIC COLLABORATION (AIDASCO)

- Co-Founder and Board President of a legally registered non-governmental, non-profit association fostering international academic and scientific collaboration
- Co-Editor in chief of “AIDASCO Reviews” (ISSN 2956-0888, DOI: 10.59783), an open-access scientific journal supporting young researchers
- Built international networks by connecting academics and scientists worldwide to conduct joint projects and collaborations
- Promoted students and young researchers through active involvement in the research activities of AIDASCO members
- Advanced science promotion and communication, public education on socially important topics, and promotion of gender equality in academia

2024 – PRESENT

ASSOCIATE PROFESSOR, UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCES, DEPARTMENT OF PHYSICS

- Teaching undergraduate and graduate courses, including Machine Learning, Programming in Python, Modeling in Physics, Vibrational Spectroscopy, and Biophysics
- Academic advisor for the Computational and IT Physics study module
- Conducting research in materials science, organic and inorganic nanomaterials, advanced oxidation processes, ionic liquids, and physics education
- Member of the Faculty Committee for the Evaluation of Scientific Excellence

2019 – 2024

ASSISTANT PROFESSOR, UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCES, DEPARTMENT OF PHYSICS

- Taught undergraduate and graduate courses, including Kinetic Theory of Gases, Programming in Physics, Demonstrational Experiments in Physics II, Vibrational Spectroscopy, Biophysics, and Science Popularization
- Research in materials science, organic and inorganic nanomaterials, advanced oxidation processes, ionic liquids, and physics education, Supervision of students

2019 – 2024

MEMBER OF USAID RESEARCH TECHNICAL ASSISTANCE CENTER

- Research assistance to projects within USAID

2018 – 2023

PHYSICS TEACHER, “JOVAN JOVANOVIĆ ZMAJ” HIGH SCHOOL

- Teaching “Modeling in Physics” and “Physics of Atoms and Molecules” for students with exceptional abilities in physics

2015 – 2020

ASSISTANT RESEARCH PROFESSOR, UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCES DEPARTMENT OF PHYSICS

- Research in the area of materials science, science communication

2012 – 2015

RESEARCH ASSISTANT, UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCES, DEPARTMENT OF PHYSICS

- Research in the area of materials science, science communication

2010 – 2012

JUNIOR RESEARCH ASSISTANT, UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCES, DEPARTMENT OF PHYSICS

- PhD student, Research in the area of materials science

EDUCATION

OCTOBER 2014

PHD, THEORETICAL CONDENSED MATTER PHYSICS

UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCE DEPARTMENT OF PHYSICS

SEPTEMBER 2009

GRADUATED PHYSICIST

UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCE DEPARTMENT OF PHYSICS

SEPTEMBER 2004

HIGH SCHOOL GRADUATION

“IVO LOLA RIBAR” HIGH SCHOOL, SREMSKA MITROVICA, REPUBLIC OF SERBIA

SEPTEMBER 2000

ELEMENTARY MUSIC SCHOOL GRADUATION

“PETAR KRANČEVIĆ” MUSIC SCHOOL, INSTRUMENT CLARINET, SREMSKA MITROVICA, REPUBLIC OF SERBIA

SCIENTIFIC METRICS

- Included in 2025 Stanford's list of World Top 2% scientists (Chemistry, Chemical Physics)
- Included in 2024 Stanford's list of World Top 2% scientists (Chemistry, Chemical Physics)
- Included in 2023 Stanford's list of World Top 2% scientists (Chemistry, Chemical Physics)
- 160+ papers published in journals with impact factors. The complete publication list can be seen at <https://armakovic.com/publications1>
- 450+ verified pre-publication reviews for journals with impact factors, Web of Science profile: <https://www.webofscience.com/wos/author/record/H-3647-2019>
- Total number of citations (accessed: October 2, 2025):
Google Scholar: 5185, h-index 43
Scopus: 4520, h-index 43

SKILLS

- Computational materials and molecular modeling, computational physics and chemistry, ab initio, molecular dynamics, molecular docking
- Scientific programming (Python, ML/AI model development, workflow automation)
- Experience in the following codes and program packages:
Schrödinger Materials Science Suite (Jaguar, Desmond, MacroModel, Canvas, Maestro), ORCA, xTB, PSI4, Synopsis QuantumATK, SCM ADF, Turbomole, Gaussian, GAMESS, Quantum Espresso, Autodock Vina, Multiwfn, VMD, etc.
- Communication and Presentation Skills:
 - Schrödinger's 2nd European Materials Science Bootcamp (2016) – Invited lecture: Rationalization of Experiments with Schrödinger Materials Science Suite (Curved carbon nanostructures and ionic liquids)
 - COOL scientist – Researcher Night (2016), University of Novi Sad
- Computer skills:
 - Linux and Windows operating systems
 - Programming in python, web applications
 - Web and graphic design
 - High-performance computing clusters and SLURM scheduling system
- Remote teaching, Conferencing

REWARDS AND CERTIFICATES

- Rewards for scientific excellence in the area of physical sciences in 2022 and 2023, by the Government of the Autonomous Province of Vojvodina
- 2019, HOT Physical Chemistry Chemical Physics Articles, Selected by the Editors, <https://doi.org/10.1039/C9CP04534A>
- Awards by Publons
 - Top Reviewers in "Cross-field", September 2019
 - Top Reviewers for the field "Multidisciplinary", September 2017
 - Top Reviewers for the field "Multidisciplinary", September 2016
 - 2016, Runner-up paper in Excellence in Materials Science Applications Publication Contest, held by Schrödinger Inc
- 2010, Reward for the best poster presentation at the Young Researchers Conference organized by the Materials Research Society of Serbia

RESEARCH PROJECTS AND GRANTS

- 2024 – 2025
Title: Advanced computer simulations for the design of more effective and safer drug nanocarriers: a focus on molecular interactions
Role: Researcher in charge of computational materials design
Funded by: Ministry of Scientific and Technological Development and Higher Education of the Republic of Srpska, Bosnia and Herzegovina (Project No. 19.032/961-90/24)
- 2023 – 2025
Title: iMERMAID – Inovative solutions for Mediterranean Ecosystem Remediation via Monitoring and decontamination from Chemical Pollution
Role: Researcher in charge of computational materials design
Funded by: European Commission, Grant Agreement Number 101112824
- 2023 – 2024
Application of photocatalytically active polymers biosynthesized on mediums with industrial effluents
Role: Researcher in charge of computational materials design
Funded by: Autonomous Province of Vojvodina, Serbia, Grant ID: 142-451-3166/2023-01/01
- 2021 – 2022
Title: PROTEIN – Personalized nutrition for hEalthy living
Role: Researcher in charge of computational materials design
Funded by: Horizon 2020 , Grant Agreement Number 817732
- 2019 – present
Title: Nanotechnology materials in biotechnology
Role: Project application and co-principle researcher
Funded by: Ministry for Scientific and Technological Development, Higher Education and Information Society, Republic of Srpska, Bosnia and Herzegovina, Grant ID: 19/6-020/961-32/18.
- 2018 – 2019
Title: Virtual human osteoarticular system and its application in preclinical and clinical practice
Role: Researcher
Funded by: Ministry of Education, Science and Technological Development of the Republic of Serbia, Grant ID: III 41017
- 2017 – 2019, 2025
Title: CONNECT events 1-3,7 Connecting students and young researchers of the western Balkan region. Towards the establishment of Science Communication Center and Western Balkan Scientific Association
Role: applicant, mentor of student projects
Funded by: German Academic Exchange Service (DAAD)
- 2017 – 2018
Title: Comparison of photocatalytic efficiencies of Zr/Fe₃O₄ and Si/ZrO₂ nanopowders in degradation of biologically active compounds present in environment, by application of simulated sun irradiation
Role: Researcher
Funded by: Provincial Secretariat for Science and Technological Development of Vojvodina, Republic of Serbia, Grant ID: 142-451-2727/2017-01/01
- 2011 – 2018
Title: Design and modeling of specific properties of nanostructures
Role: Researcher and project administration

Funded by: Ministry of Education, Science and Technological Development of the Republic of Serbia, Grant ID: ON171039

- 2011 – 2018

Title: Improvement of forensic methods and their application

Role: Researcher and project administration

Funded by: Ministry of Education, Science and Technological Development of the Republic of Serbia, Grant ID: TR34019

- 2010 – 2011

Title: Improvement of physical properties of nanostructured materials

Role: Researcher and project administration

Funded by: Ministry of Education, Science and Technological Development of the Republic of Serbia

OTHER

- Hobbies: basketball, clarinet, music, writing of SF novel, python programming and web design
- Married with Sanja, father of two.