Curriculum Vitae of Anatolii KORNEEV

▷ Personal information

Name:	KORNEEV Anatolii
E-mail:	korntolik@gmail.com
Place of birth:	Khabarovsk, Khabarovsky kray, Russia
Date of birth:	22 April 1993 (32 years)
Nationality:	Russian
Family status:	married, one child

▷ Administrative status

Principal/Research

Status:	Researcher at Far Eastern Federal University (FEFU)
Establishment:	Pacific Quantum Center, FEFU 10 Ajax Bay, Russky Island, Vladivostok, 690922, Russia

Temporal/Teaching

Status:	Associate Professor at Far Eastern Federal University (FEFU)
Establishment:	Advanced Engineering School "Institute of Biotechnology, Bioengineering and Food Systems", FEFU 10 Ajax Bay, Russky Island, Vladivostok, 690922, Russia

▷ Professional experience

2025 till present	Associate Professor , Advanced Engineering School "Institute of Biotechnology, Bioengineering and Food Systems", Vladivostok, Russia
2025 till present	Teacher of "Physics", Advanced Engineering School "Institute of Biotechnology, Bioengineering and Food Systems, FEFU, Vladivostok, Russia
2025	Teacher of "Fundamentals of Digital Literacy", School of Medicine and Life Sciences, FEFU, Vladivostok, Russia
2024 till present	Researcher, Pacific Quantum Center, FEFU, Vladivostok, Russia
2024	Teacher of "Physics" on programs "Biochemistry" and "Biophysics", School of Medicine and Life Sciences, FEFU, Vladivostok, Russia
2023 till present	Teacher of "Medical Physics" and "Medical Statistics" on international program "General Medicine", School of Medicine and Life Sciences, FEFU, Vladivostok, Russia
2023 till 2024	Teacher of "Mathematical Modelling" on program "Biotechnology", School of Medicine and Life Sciences, FEFU, Vladivostok, Russia
2021 till 2023	Teacher of "General Physics" on program "Biotechnology", Institute of Life Sciences and Biomedicine, FEFU, Vladivostok, Russia
2021	Teacher of "Computer Science with Basics of Bioinformatics" on program "Pharmacy", Institute of Life Sciences and Biomedicine, FEFU, Vladivostok, Russia
2020 till 2023	Junior Researcher , Pacific Quantum Center, FEFU, Vladivostok, Russia
2017 till 2020	Junior Researcher , Laboratory of Physics of Living Matter, FEFU, Vladivostok, Russia
2015 till 2017	Assistant Researcher , Laboratory of Physics of Living Matter, FEFU, Vladivostok, Russia

▷ Academic degrees

- PhD 2023, University of Tours, Tours, France
  Thesis "Compact Chandrasekhar-Kendall states in noncentrosymmetric superconductors"
  Advisor: Maxim Chernodub
- Master 2017, Far Eastern Federal University (FEFU), Vladivostok, Russia
  Thesis "Nonlinear SO(3) sigma model in 3+1 dimensions"
  Advisor: Oleg Tkachev
- Bachelor 2015, Far Eastern Federal University (FEFU), Vladivostok, Russia
  Thesis "Modeling of protein structure using the Frenet frame method"
  Advisor: Alexander Molochkov

▷ Scientific activity

Keywords

quantum field theory; Monte-Carlo simulations; numerical simulations of lattice gauge theories; topological objects in field theories; non-perturbative phenomena; protein folding; structure and dynamics of proteins;

Publications

11 (in peer-reviewed journals)

14 (total number of publications including conference proceedings)

Five most represented publications

- J. Garaud, A. Korneev, A. Samoilenka, A. Molochkov, E. Babaev, and M. Chernodub *"Counterpart of the Chandrasekhar-Kendall state in noncentrosymmetric superconductors"*
  Physical Review B 108, 014504 (2023) https://doi.org/10.1103/PhysRevB.108.014504

- V.G. Bornyakov, N.V. Gerasimeniuk, V.A. Goy, A.A. Korneev, A.V. Molochkov, A. Nakamura, and R.N. Rogalyov *"Numerical Study of the Roberge-Weiss Transition"*
  Physical Review D 107, 014508 (2023) https://doi.org/10.1103/PhysRevD.107.014508

- A. Korneev, A. Begun, S. Liubimov, K. Kachlishvili, A. Molochkov, A. J. Niemi, and G. G. Maisuradze *"Exploring Structural Flexibility and Stability of α-Synuclein by the Landau-Ginzburg-Wilson Approach"*
  Journal of Physical Chemistry B, 2022, 126(36), pp. 6878–6890.
  https://doi.org/10.1021/acs.jpcb.2c04651

- A.K. Sieradzan, A. Korneev, A. Begun, K. Kachlishvili, H.A. Scheraga, A. Molochkov, P. Senet, A.J. Niemi and G.G. Maisuradze *"Investigation of Phosphorylation-Induced Folding of an Intrinsically Disordered Protein by Coarse-Grained Molecular Dynamics"*
  J. Chem. Theory Comput. 2021, 17, 3203-3220.
  https://doi.org/10.1021/acs.jctc.1c00155

- K. Kachlishvili, A. Korneev, L. Maisuradze, J. Liu, H. A. Scheraga, A. Molochkov, P. Senet, A. J. Niemi, and G. G. Maisuradze *"New Insights into Folding, Misfolding, and Nonfolding Dynamics of a WW Domain"*
  J. Phys. Chem. B 2020, 124, 3855-3872.
  https://dx.doi.org/10.1021/acs.jpcb.0c00628