

Georgios Palkanoglou

TRIUMF Canada's Particle Accelerator Centre
4004 Wesbrook Mall
Vancouver, BC V6T 2A3 CA
Office: MOB 227
Phone: (+1) 519-767-8901

Email: gpalkanoglou@triumf.ca
WEBSITE: [Google Scholar profile](#); gpalkano.com

Born: December 17, 1995—Athens, Greece
Nationality: Greek

Current position

Postdoctoral Researcher, TRIUMF Canada's Particle Accelerator Centre, Vancouver

Education

- 2019-2023 PH.D. in Physics, University of Guelph
Dissertation: *Pairing in Nuclear and Cold Atomic Systems*
- 2018-2019 M.Sc. in Physics, University of Guelph — 96.5/100 GPA
Thesis: *Approaching the Thermodynamic Limit in BCS Theory*
- 2013-2017 B.Sc. (HONOURS) in Physics; National and Kapodistrian University of Athens — GPA 8.68/10 (Top 6%)

Awards & Honours

- 2020 Constantine and Patricia Mavroyannis Scholarship
- 2019-2020 Dean's Graduate scholarship (University of Guelph)
- 2019 International Doctoral Training Scholarship - Ph.D.'s (University of Guelph)

Teaching experience

- 2023 Invited Lecture: *Acoustics & Phonetics*, Introduction to Linguistics, School of Languages and Literature, University of Guelph
- 2023 Graduate Teaching Assistant in Physics of Music, Department of Physics, University of Guelph
- 2021 Graduate Teaching Assistant in Quantum Mechanics, Department of Physics, University of Guelph
- 2020 Graduate Teaching Assistant in (graduate) Quantum Field Theory, Department of Physics, University of Guelph
- 2019- Private Tutor in Undergraduate Physics
- 2018- Graduate Teaching Assistant in Applied Physics, Department of Physics, University of Guelph
- 2013-2017 Private Tutor in Physics, Maths, and Geometry

Publications

JOURNAL ARTICLES

- 2024 *Spin-Triplet Pairing in Heavy Nuclei is Stable Against Deformation*
G. Palkanoglou, M. Stuck, and A. Gezerlis
[arXiv:2402.13313](#)
- 2022 *The 1S_0 pairing gap in neutron matter*
S. Gandolfi, G. Palkanoglou, J. Carlson, A. Gezerlis, and K. E. Schmidt
Condens. Matter **2022**, 7(1), 19
[arXiv:2201.01308](#)
- 2021 *Superfluid neutron matter with a twist*
G. Palkanoglou and A. Gezerlis
Universe **2021**, 7(2), 24
[arXiv:2012.04663](#)
*Marked as a Feature Paper
- 2020 *From odd-even staggering to the pairing gap in neutron matter*
G. Palkanoglou, F. K. Diakonou, and A. Gezerlis
Phys. Rev. C **102**, 064324 (2020)
[arXiv:2005.05985](#)

PROCEEDINGS

- 2019 *Effective mass and pairing gap in neutron matter*
G. Palkanoglou, N. Ismail, M. Buraczynski, and A. Gezerlis
J. Phys.: Conf. Ser. **1643** 012132 (2020).

Talks & Seminars

- 2024 *Exotic nuclear superfluidity in heavy nuclei*
Nucleus-Nucleus 2024, Whistler, BC, Canada
- 2024 Invited: *Nuclear superfluidity in nuclei and neutron matter*
National and Kapodistrian University of Athens, Athens, Greece
- 2024 *Exotic nuclear superfluidity in heavy nuclei*
2024 CeNAM Frontiers, University of Notre Dame, South Bend, IN, USA
- 2024 *Exotic nuclear superfluidity in heavy nuclei*
Theory Canada 16, Western University, London, ON, Canada

- 2024 *Exotic nuclear superfluidity in heavy nuclei*
CAP Congress 2024, Western University, London, ON, Canada
- 2024 *Invited: (Pathways to) Exotic pairing in heavy nuclei*
PAINT₂₄ - Workshop on Progress In Ab Initio Nuclear Theory, TRIUMF, Vancouver, BC, Canada
- 2023 *Invited: Singlet and triplet pairing in nuclear and cold atomic systems*
Michigan State University
- 2023 *Mixed-spin pairing in nuclear and cold atomic systems*
(Virtual) Warsaw University of Technology
(Job Interview)
- 2023 *Mixed-spin pairing in nuclear and cold atomic systems*
(Virtual) TRIUMF Theory Group
(Job Interview)
- 2023 *Singlet and triplet pairing in nuclear and cold atomic systems*
2023 Canadian Association of Physicists Congress
University of New Brunswick, Fredericton, NB, Canada
- 2023 *Singlet and triplet pairing in nuclear and cold atomic systems*
60th Winter Nuclear and Particle Physics Conference
Banff, AB, Canada
- 2023 *Mixed-spin pairing in nuclear and cold atomic systems*
Toronto Ultracold Atom Network (TUCAN) meeting
University of Toronto, Toronto, ON, Canada
- 2022 *The S-wave pairing gap in neutron matter*
2022 Canadian Association of Physicists Congress
*Marked as the 3rd best presentation in the Division of Theoretical Physics (DTP)
- 2021 *Superfluid neutrons: from particles to matter*
2021 Canadian Association of Physicists (Virtual) Congress
*Tied as the 2nd best presentation in the Division of Theoretical Physics (DTP)
- 2021 *Superfluid neutron matter with a twist*
58th Winter Nuclear and Particle Physics (Virtual) Conference
* Marked as the 2nd best presentation in Theoretical Physics

- 2021 *Superfluid neutron matter with a twist*
(Virtual) Graduate Seminar Series
University of Guelph, Guelph, ON, Canada
- 2020 *From odd-even staggering to the pairing gap in neutron matter*
2020 Canadian Association of Physicists (Virtual) Congress
- 2020 *From odd-even staggering to the pairing gap in neutron matter*
57th Winter Nuclear and Particle Physics Conference
Banff, AB, Canada
- 2018 *A Superconducting Star*
Graduate Seminar Series
University of Guelph, Guelph, ON, Canada

Conferences & Summer schools attended

- 2024 2024 CeNAM Frontiers, University of Notre Dame, South Bend, Indiana, USA
- 2024 2024 C.A.P Congress, Western University, London, Ontario, Canada
- 2024 Theory Canada 16, Western University, London, Ontario, Canada
- 2024 PAINT₂₄ - Workshop on Progress In Ab Initio Nuclear Theory, TRIUMF, Vancouver, British Columbia, Canada
- 2023 2023 C.A.P Congress, University of New Brunswick, Fredericton, New Brunswick, Canada
- 2023 60th Winter Nuclear and Particle Physics (Virtual) Conference, Banff, AB, Canada
- 2022 2022 C.A.P Congress, McMaster University, Hamilton, Ontario, Canada
- 2021 2021 C.A.P (Virtual) Congress
- 2021 58th Winter Nuclear and Particle Physics (Virtual) Conference
- 2020 2020 C.A.P (Virtual) Congress
- 2020 57th Winter Nuclear and Particle Physics Conference, Banff, AB, Canada
- 2017 The 2017 Onassis Foundation Lectures in Physics: "Quantum physics frontiers explored with cold atoms, molecules and photons", Heraklion, Greece
- 2017 The 2017 Petnica Summer Institute summer school on Cosmology, Petnica, Serbia
- 2016 The 3rd Xmas Theoretical Physics Workshop, Athens, Greece

Computing skills

LANGUAGES

Fortran, Python, Bash, MATLAB, Mathematica, C++, HTML

SOFTWARE

L^AT_EX, PLUTO, Logger Pro

Outreach & Service

2022	Research Information Session, University of Guelph
2021	Volunteer judge for the 57th Annual Canadian Undergraduate Physics Conference (CUPC)
2019	Volunteer for STEM Week 2019 organized by the University of Guelph, Guelph Civic Museum
2018	Volunteer for STEM Week 2018 organized by the University of Guelph, Guelph Civic Museum

Languages

Greek (native), English (fluent), German (beginner), Spanish (beginner)