

Curriculum Vitae

David Petrosyan

Education

- 1999: PhD in Laser Physics, Institute for Physical Research,
Armenian National Academy of Sciences (ANAS)
1995: Diploma in Physics (*with honors*), Department of Physics, Yerevan State University

Professional Appointments

- 2002– : Institute of Electronic Structure & Laser, FORTH, Greece
Research Director [A] (2024), Principal [B] (2006), Associate [Γ] Researcher
2017– : Center for Quantum Science, Physikalisches Institut Universität Tübingen, Germany
Mercator Fellow
2019– : A. Alikhanyan National Science Laboratory (YerPhI), Armenia
Senior Visiting Scientist
2016–2020: Department of Physics and Astronomy, Aarhus University, Denmark
Visiting Associate Professor
2014–2015: Aarhus Institute of Advanced Studies, Aarhus University, Denmark
Dale T. Mortensen Senior Fellow – Associate Professor
2006, 2011: Fachbereich Physik, University of Kaiserslautern, Germany
Humboldt Research Fellow
2000–2002: Department of Chemical Physics, Weizmann Institute of Science, Israel
Postdoctoral Fellow
1998–2000: Institute of Electronic Structure & Laser, FORTH, Greece
Research Fellow
1997–1998: Max-Planck-Institut für Quantenoptik, Germany
Research Fellow
1995–1999: Institute for Physical Research, ANAS, Armenia
Post-Graduate Student

Awards

- 2014: Friedrich Wilhelm Bessel Research Award of the Humboldt Foundation, Germany
2013: Dale T. Mortensen Senior Fellowship, Aarhus Institute of Advanced Studies, Denmark
2006: Alexander von Humboldt Research Fellowship, Germany
2000: Feinberg Postdoctoral Fellowship, Israel
1997: DAAD graduate student Scholarship, Germany

Distinctions

- 2017-2022: Member of the Editorial Board of *Physical Review A*
2016: APS Outstanding Referee

Specialization: Theoretical Quantum Optics & Quantum Information:

- Quantum non-linear optics with single photons and coherent atomic ensembles
- Spin lattice models with cold atoms in optical lattices, interacting Rydberg atoms
- Quantum simulations of strongly interacting few- and many-body systems
- Physical implementations of quantum information processing and communication with optical, atomic, solid-state and hybrid systems

Publications

86 scientific papers in refereed international journals, 1 book, 3 book chapters, 2 editorials
~3400 citations, h-index 30 (Web of Science™ Core Collection, 2023)
~3700 citations, h-index 30 (Scopus, 2023)
~5100 citations, h-index 33 (Google Scholar, 2023)

Presentations at Scientific Meetings and Research Centers

56 Invited talks and lectures, 54 contributed talks and seminars