

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
Associate [Γ]/Principal [B] (since 2006) Researcher
2017–: Center for Quantum Science, Physikalisches Institut Universität Tübingen, Germany
Mercator Fellow
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

- 2013: 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
2014: Outstanding Referee for *New Journal of Physics*

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

76 scientific papers in refereed international journals, 1 book, 3 book chapters, 2 editorials
~2900 citations, h-index 27 (Web of Science™ Core Collection, 2021)
~4250 citations, h-index 32 (Google Scholar, 2021)

Presentations at Scientific Meetings and Research Centers

51 Invited talks and lectures, 48 contributed talks and seminars