

# Roe Ozeri - CV

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## Personal Information

Date of birth: June 24, 1969, Israel.

Family status: Married, three children.

Citizenship: Israeli

Work address: Department of Physics of Complex Systems  
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## Education

National Institute of Standards and Technology, Boulder, Colorado, 2003 – 2007

Postdoctorate trainings

Field of study: Quantum information processing using laser-cooled ions.

Supervisor: Dr. David Wineland.

Weizmann Institute of Science, Rehovot, Israel, 1998 – 2003

Ph.D. in Physics

Field of study: Weakly interacting Bose-Einstein Condensates

Thesis title: "Spectroscopic study of excitations in a Bose-Einstein condensate"

Supervisor: Prof. Nir Davidson.

Weizmann Institute of Science, Rehovot, Israel, 1995 – 1998

M.Sc in Physics

Field of study: Laser-cooling and trapping of atoms

Thesis title: "A blue detuned optical dipole trap for Rubidium atoms using a single laser beam"

Supervisor: Prof. Nir Davidson.

Hebrew University, Jerusalem, Israel, 1991 – 1994

B.Sc in Physics

Summa Cum Laude

## Employment History

**Associate Professor**, 2014 – Present

Department of Physics of Complex Systems, Weizmann Institute of Science.

**Senior Researcher**, 2007 – 2014

Department of Physics of Complex Systems, Weizmann Institute of Science.

**Process engineering**, 1994 – 1995

Intel Electronics, Jerusalem.

## Other Appointments

- Davidson Center for Science Education, Rehovot, Executive Board member, 2014 – Present.
- Hemda Schwartz-Reisman Science Education Center, Tel-Aviv, Executive Board member, 2009 – Present.
- Schwartz-Reisman Science Education Center, Rehovot, Executive Board member, 2013 – Present.
- Weizmann Institute Early Childhood Education Center, Steering Committee member 2009 – 2014, Steering Committee Chair 2014-present.
- Sustainability task force, Weizmann Institute of Science, 2009 – Present.

## Prizes and Awards

- Hebrew University, Dean's list, 1993.
- Feinberg Graduate school, Excellence in M.Sc prize, 1999.
- Israeli council for higher education planning, Ph.D. Excellence fellowship, 2000-2002.
- Rothschild fund postdoctoral prize fellowship, 2003.
- J. F. Kennedy Ph.D. Excellence Award, Weizmann Institute of Science, 2003.
- Levinson Physics Prize, Weizmann Institute Scientific Council, 2012.
- Ha'aretz Short story writing competition, 3rd prize, 2015.

## Selected Publications

1. "Long spin relaxation times in a single-beam blue-detuned optical trap", R. Ozeri, L. Khaykovich, and N. Davidson, Phys. Rev. A **59**, R1750 (1999)
2. "Excitation spectrum of a Bose-Einstein Condensate", J. Steinhauer, R. Ozeri, N. Katz, and N. Davidson, Phys. Rev. Lett. **88**, 120407 (2002)
3. "Direct observation of the phonon energy in a Bose-Einstein condensate by tomographic imaging", R. Ozeri, J. Steinhauer, N. Katz, and N. Davidson, Phys. Rev. Lett. **88**, 220401 (2002)

4. “Hyperfine Coherence in the Presence of Spontaneous Photon Scattering”, R. Ozeri, C. Langer, J. D. Jost, B. L. DeMarco, A. Ben-Kish, B. R. Blakestad, J. Britton, J. Chiaverini, W. M. Itano, D. Hume, D. Leibfried, T. Rosenband, P. Schmidt, and D. J. Wineland, *Phys. Rev. Lett.* **95**, 030403 (2005)
5. “Long-lived qubit memory using atomic ions”, C. Langer, R. Ozeri, J. D. Jost, J. Chiaverini, B. DeMarco, A. Ben-Kish, R. B. Blakestad, J. Britton, D. B. Hume, W. M. Itano, D. Leibfried, R. Reichle, T. Rosenband, T. Schaetz, P. O. Schmidt, D. J. Wineland, *Phys. Rev. Lett.* **95**, 060502 (2005)
6. “Colloquium: Bulk Bogoliubov excitations in a Bose-Einstein condensate”, R. Ozeri, N. Katz, J. Steinhauer and N. Davidson, *Rev. Mod. Phys.*, **77**, 187 (2005)
7. “Errors in trapped-ion quantum gates due to spontaneous photon scattering”, R. Ozeri, W. M. Itano, R. B. Blakestad, J. Britton, J. Chiaverini, J. D. Jost, C. Langer, D. Leibfried, R. Reichle, S. Seidelin, J. H. Wesenberg, and D. J. Wineland, *Phys. Rev. A* **75**, 042329 (2007)
8. “Single ion quantum lock-in amplifier”, S. Kotler, N. Akerman, Y. Glickman, A. Keselman, and R. Ozeri, *Nature*, **473**, 61 (2011). Highlighted in the News & Views section of *Nature*
9. “Reversal of Photon scattering decoherence in atomic qubits”, N. Akerman, S. Kotler, Y. Glickman and R. Ozeri, *Phys. Rev. Lett.* **109**, 103601 (2012)
10. “Emergence of a measurement basis in atom-photon scattering”, Yinnon Glickman, Shlomi Kotler, Nitzan Akerman and Roe Ozeri, *Science* **339**, 1187 (2013)
11. “Measurement of the magnetic interaction between two bound electrons of two separate ions”, Shlomi Kotler, Nitzan Akerman, Nir Navon, Yinnon Glickman and Roe Ozeri, *Nature*, **510**, 376 (2014)
12. “Cooperative Lamb shift in a mesoscopic atomic array”, Ziv Meir, Osip Schwartz, Ephraim Shahmoon, Dan Oron and Roe Ozeri, *Phys. Rev. Lett.* **113**, 193002 (2014)

*28 August 2016*