

Curriculum Vitae

Yoram Alhassid

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Education

- 1979 Ph.D. in Physics, The Hebrew University of Jerusalem,
with excellence
Thesis: ‘On the Information Theoretic Approach to Nuclear Reactions’
Advisor: Raphael D. Levine
- 1974 B.Sc. in Physics and Mathematics, The Hebrew University of Jerusalem,
with special distinction

Employment

- 2017 – present Frederick Phineas Rose Professor of Physics, Yale University
- 1990 – present Professor of Physics, Yale University
- 1987 – 1990 Associate Professor of Physics with tenure, Yale University
- 1984 – 1987 Associate Professor of Physics, Yale University
- 1981 – 1984 Assistant Professor of Physics, Yale University
- 1979 – 1981 Research Fellow in Physics, California Institute of Technology
- 1975 – 1979 Teaching Assistant, The Hebrew University of Jerusalem

Research Fields

Nuclear many-body theory

Cold atoms

Mesoscopic physics and nanoscience

Quantum chaos and random-matrix theory

High-performance computing

Awarded 14,060,000 MPP hours for 2018 on the National Energy Research Supercomputing Center (NERSC) for the project “Many-Body Studies of Nuclei and Cold Atoms.”

Academic Supervision and Mentoring

Advised 18 Ph.D. students and 13 postdoctoral associates

Currently advising 3 graduate students and 1 associate research scientist

Selected Awards and Honors

Appointed the Frederick Phineas Rose Professor of Physics (2017)

Alexander von Humboldt Senior Scientist Award (2001)

The award’s citation is “For his important contributions to Many-Body Theory, in particular for his work on the maximum entropy approach, on Monte Carlo calculations, on chaotic phenomena in nuclei, and the transport properties of mesoscopic samples . . .”

Fellow of the American Physical Society (2001)

Alfred P. Sloan Fellow in Physics (1984-1988)

Chaim Weizmann Fellow (1979-1981)

The Aharon Katzir Prize awarded to one doctoral recipient for excellence in natural sciences in Israel (1980)

Landau Prize for outstanding research (1978)

Selected Committees and Conference Organization

Organizing Committee, *Sixth International Workshop on Compound Nuclear Reactions and Related Topics (CNR*18)*, Berkeley, September 24 - 28, 2018.

Lead organizer, workshop on *Statistical Properties of Finite Nuclei*, ECT*, Trento, Italy, July 11-15, 2016.

International Advisory Committee, *Fifth International Workshop on Compound Nuclear Reactions and Related Topics (CNR*15)*, Tokyo, Japan, October 19-23, 2015.

Member of the DOE *Innovative and Novel Computational Impact on Theory and Experiment (INCITE)* review panel in nuclear physics (2015).

International Advisory Committee, *Fifth Workshop on Nuclear Level Density and Gamma Strength*, Oslo, Norway, May 18–22, 2015.

Member of the DOE *Innovative and Novel Computational Impact on Theory and Experiment (INCITE)* review panel in nuclear physics (2014).

Member of the DOE *Innovative and Novel Computational Impact on Theory and Experiment (INCITE)* review panel in nuclear physics (2013).

International Advisory Committee, *Fourth International Workshop on Compound Nuclear Reactions and Related Topics (CNR*13)*, Maresias, Brazil, October 7-11, 2013.

Member of the DOE *Innovative and Novel Computational Impact on Theory and Experiment (INCITE)* review panel in nuclear physics (2012).

Member of the National Research Council (NRC) *Deep Underground Science and Engineering Laboratory (DUSEL) assessment committee* (2010/11). Committee meetings at the National Academy of Sciences, Washington DC (December 2010), and at the Beckman Center, UC Irvine (February 2011, March 2011).

Co-author of the NRC report *An Assessment of the Deep Underground Science and Engineering Laboratory (DUSEL)*, July 2011.

International Advisory Committee, *Third International Workshop on Compound Nuclear Reactions (CNR*11)*, Prague, Czech Republic, September 19-23, 2011.

Member of the DOE *Innovative and Novel Computational Impact on Theory and Experiment (INCITE)* review panel in nuclear physics (2010).

Lead organizer (together with B.L. Altshuler and V. Faliko), a program *From Femtoscience to Nanoscience: Nuclei, Quantum Dots, and Nanostructures*, Institute of Nuclear Theory, Seattle, Washington, July 20- Aug. 28, 2009.

Program committee, *13th International Symposium on Capture Gamma-Ray Spectroscopy*

and Related Topics, Cologne, Germany, August 25-29, 2008.

Program Committee, *Nuclear Statistical Physics for Astrophysics and Technology*, Ohio University, July 7 -11, 2008.

International Advisory Committee, *Correlations in quantum systems: quantum dots, quantum gases and nuclei*, Palma de Mallorca, Spain, September 26 - 30, 2005.

Program Committee, *Twelfth International Symposium on Capture Gamma Ray and Related Topics Conference*, University of Notre Dame, Indiana, September 4 - 9, 2005.

Scientific coordinator (together with Y. Gefen, Weizmann Institute), workshop on *Electrons in zero-dimensional conductors: beyond the single-particle picture*, Max Planck Institute for Complex Systems, Dresden, Germany, November 17 - 30, 2002.

Program Committee, *Eleventh International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics*, Prague, Czech Republic, September 2 - 6, 2002.

Lead organizer (together with B.L. Altshuler, Princeton University), a program on *Chaos and Interactions: from Nuclei to Quantum Dots*, Institute of Nuclear Theory, Seattle, Washington, July 1 - September 6, 2002.

Organizing Committee, *Gregory Breit Centennial Symposium*
Yale University, October 29 - 30, 1999.

Program Committee, *Tenth International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics*
Santa Fe, New Mexico, August 30 - September 3, 1999.

Program Advisory Committee, *The Tenth International Conference on Recent Progress in Many-Body Theories*
Institute for Nuclear Theory, Seattle, September 10 - 15, 1999.

International Advisory Committee, *Achievements and Perspectives in Nuclear Structure*
Crete, July 11 - 17, 1999.

Organizer, international conference on *Dynamics of Complex Systems*
Max Planck Institute for Complex Systems, Dresden, Germany, May 10 - 15, 1999.

Organizer, workshop on *Dynamics of Complex Systems*
Max Planck Institute for Complex Systems, Dresden, Germany, March 30 - June 15, 1999.

International Advisory Committee, *Giant Resonances 1998*
Varenna, Italy, May 10 -16, 1998.

Selection Committee, *Gregory Breit Lecture*, Yale University, 1989, 1992.

APS Program Committee, Division of Nuclear Physics, 1988 - 1990.