

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

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)

Farkas Prize for outstanding research (1979)

Landau Prize for outstanding research (1978)

Academic Supervision and Mentoring

Advised 19 Ph.D. students and 16 postdoctoral associates

Selected Committees and Conference Organization

International Advisory Committee, *Seventh International Workshop on Compound Nuclear Reactions and Related Topics (CNR*24)*, Vienna, Austria, July 8 – 12, 2024.

Selection Committee, Herman Feshbach Prize in Theoretical Nuclear Physics, 2023.

International Advisory Committee, *16th Varenna Conference on Nuclear Reaction Mechanisms*, Varenna, Italy, June 11 – 16, 2023.

Member of the University Information Technology Services Committee, 2017 – 2023.

Co-editor, Proceedings of the *Sixth International Workshop on Compound Nuclear Reactions and Related Topics (CNR*18)*, Springer, 2021.

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.

Organizer, Physics Colloquium, Yale University, Spring 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.

Yale University Scholar Awards Committee, 2012 – 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.

Organizer, Physics Colloquium, Yale University, Spring 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 – 2011. 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 Exper-*

iment (INCITE) review panel in nuclear physics, 2010.

Chair, Goldwater scholarship committee, Yale University, 2010.

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

Member, FAS high-performance computing advisory committee, Yale University, 2007 - 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.

Goldwater Scholarship committee, Yale University, 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.

Chair, Physics Colloquium, Yale University, Spring and Fall 2003.

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.

Chair, Physics Colloquium, Yale University, Fall 1995.

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

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

Other Professional Service

Referee for Physical Review Letters, Physical Review A, B, C and E, Reviews of Modern Physics, Physics Letters B, Nuclear Physics A, Annals of Physics, Journal of Physics, Science, Nature, Journal of Mathematical Physics, European Journal of Nuclear Physics, Acta Polonica B, Applied Physics Letters, Proceedings of the National Academy of Sciences.

Reviewer for the Department of Energy, National Science Foundation, Israel Science Foundation, National Nuclear Security Administration (NNSA).