

## Ariel Amir - Curriculum Vitae

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### CONTACT INFORMATION

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### EDUCATION AND TRAINING

- ★ 2010, Ph.D., Department of Condensed Matter Physics, The Weizmann Institute of Science
  - Thesis Topic: *Dynamics of the Electron Glass*
  - Advisers: Prof. Yuval Oreg, Prof. Yoseph Imry
- ★ 2005, M.Sc., Department of Condensed Matter Physics, The Weizmann Institute of Science
  - Thesis Topic: *Effect of Junction Geometry on Tunneling*
  - Advisers: Prof. Yuval Oreg, Prof. Yoseph Imry
- ★ 2000, B.Sc. Hebrew University of Jerusalem
  - *Summa cum Laude*, in Physics and Mathematics

### ACADEMIC POSITIONS

- ★ September 2022 – present, Full Professor, The Weizmann Institute of Science,
- ★ July 2021-September 2022, Gordon McKay (Full) Professor of Applied Mathematics and Applied Physics, SEAS, Harvard University
- ★ July 2020-June 2021, Thomas D. Cabot Associate Professor of Applied Mathematics and Applied Physics, SEAS, Harvard University
- ★ 2019, Associate Professor of Applied Mathematics and Applied Physics, SEAS, Harvard University
- ★ 2014-2018, Assistant Professor of Applied Mathematics and Applied Physics, SEAS, Harvard University
- ★ 2011-2014, Junior Fellow, Harvard Society of Fellows

### HONORS AND AWARDS

- 2025 Tel Aviv University International Biophysics Prize laureate.
- 2024 Selected as member of European Molecular Biology Organization (EMBO).
- 2023 ERC Consolidator grant for “Biophysical Models of Bacterial Growth”
- 2023 Award from the Krenter-Katz center for Interdisciplinary Research at the Interfaces of Life and Exact Sciences.
- 2019 Björkman-Strominger-Wiley Prize for Collaboration.
- 2019 SUPA (Scottish Universities Physics Alliance) distinguished visitor award.
- 2018 NSF CAREER award.
- 2017 Dean’s Competitive Fund for Promising Scholarship.
- 2017 Award from the Volkswagen foundation program “Life? – A fresh scientific approach to the basic principles of life”.
- 2014-2016 Scialog Fellow, “Molecules come to life”.

- 2016 Student's Faculty Choice Colloquium, ETH Zurich.
- 2015 A. P. Sloan Fellow, physics.
- 2012 Milton grant awarded for the project "Memory and relaxation phenomena in materials science".
- 2011-2014 Harvard Junior Fellow.
- 2011-2012 Rothschild Fellow (Yad Hanadiv Foundation).
- 2010 Recipient of the D. N. Chorafas International Award.
- 2010 Recipient of the Fulbright Fellowship.
- 2010 Recipient of the Bikura Fellowship.
- 2009 Menashe-Milo Memorial Prize, awarded by the Feinberg Graduate School of the Weizmann Institute of Science, for academic excellence and scientific accomplishment.
- 2008 Levi Eshkol Scholarship for Excellence, awarded by the Israeli Ministry of Science.
- 2005-2009 Weizmann Institute Ph.D. Scholarship.
- 2000 Rector's prize, Hebrew University of Jerusalem.
- 2000 Amirim Scholarship for outstanding students, Hebrew University of Jerusalem.
- 1999 Gold medal in the International Physics Olympiad, Italy. First place in the Israeli National Physics Olympiad. First place in the Grossman Mathematics Olympiad.

SCIENTIFIC  
LEADERSHIP

- 2024-present Director of the Weizmann Physics School.
- 2023-present Director of the Clore Center for Biological Physics.
- 2022-present Co-organizer of the Clore seminar on soft matter and biological physics.
- Organizer of SRITP conference on "Stochasticity in microbial physiology" (Weizmann Institute, January 2026).
- Co-organizer of Erwin Schrödinger Institute workshop on "Extremal statistics in biology" (Vienna, June 2025).
- Co-organizer of conference on "Deciphering Microbial Physiology and Community" (Shenzhen, May 2025).
- Co-organizer of Israeli Physical Society annual meeting (Tel-Aviv, April 2023).
- Co-organizer of EMBO conference on "Cell size and growth regulation" (virtual, June 2021).
- Organizer of Aspen winter conference on "New physical models for cell growth", Aspen, Colorado (January, 2020).
- Organizer of March meeting Focus session on "Microbial and Viral Quantitative Evolution", Boston (March, 2019).
- Co-organizer of Radcliffe Institute Exploratory Symposium on: "An Interdisciplinary Approach to the Bacterial Cell Cycle", Boston (June, 2018).
- Organizer of March meeting Focus session on "Implications of single-cell variability: from cells to populations", Los Angeles (March, 2018).
- Co-editor of special issue of *Frontiers in Microbiology*, "The Bacterial Cell: Coupling Between Growth and Major Cell Cycle Processes" (2018).
- Co-organizer of International Physics of Living Systems annual conference, Harvard (July, 2016).
- Co-organizer of Institute of Advance Studies workshop on "Stochastic Processes in the Cell-Cycle", Institute of Advanced Studies, Jerusalem (June, 2016).

## TEACHING

### *Harvard University*

- 2021 Complex and Fourier analysis
- 2014-2021 Created new course, ‘Introduction to Disordered Systems and Stochastic Processes’ (graduate level) A book based on this course is now published with Cambridge University Press (January 2021).
- 2014-2020 Developed course on ‘Mathematical modeling’ (undergraduate level)
- 2011-2014 Mentor for supervised research courses at Harvard University.

### *The Weizmann Institute of Science*(graduate level)

- 2025 Introduction to Complex Systems
- 2024 Seminal papers in the physics of living systems
- 2023-2025 Data analysis
- 2022 Statistical Physics
- 2011 Instructor for course ‘Fluctuations and Noise’
- 2007 Instructor for course ‘Renormalization group’
- 2006-2008 Instructor for course ‘Quantum Mechanics I’
- 2006-2009 Instructor in Ulpana de Shalit for undergraduate students, The Weizmann Institute of Science.

## VOLUNTARY, OUTREACH AND EDUCATIONAL ACTIVITY IN THE COMMUNITY

- Invited speaker to ICTP spring college for students from developing countries (Italy, March 2025)
- 2022-2024 Outreach lectures to high-school students and in the community.
- 2015-2021 Creator and head of the Harvard Physics Circle, preparing high school students for the Physics Olympiad.
- 2019-2020 Member of team creating problems for the US Physics Olympiad exams.
- 2016-2019 K-12 outreach, through Harvard’s “Teach” project, and through mentoring in the Research Science Institute program.
- 2011-2019 Mentor for Harvard College Program for Research in Science and Engineering, advising Harvard undergraduates in physics research.
- 2015-2017 Support of the Association of Computational and Mathematical Modeling by creating problems and serving as judge.
- 2010-2011 Member of the Academic Committee for the 12th Asian Physics Olympiad, held in Israel in May 2011.
- 2009 Member of the International Board of the International Physics Olympiad.
- 2004-2009 Leader of Israeli team to the International Physics Olympiad, Mexico, and the Asian Physics Olympiad in Mongolia (2008), Kazakhstan (2006) and Vietnam (2004).
- 2000-2011 Senior Instructor in the Israeli National Physics Olympiad project. Composer of entrance exams and instructor in preparation camps.