

## CV OF OMRI MOSHE SARIG

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### CAREER TRACK

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#### EMPLOYMENT.

2014-present Full Professor, Weizmann Institute of Science  
Head of the Mathematics Department (2014-2018)  
2009-2014 Associate Professor, Weizmann Institute of Science  
2006-2011 Associate Professor, The Pennsylvania State University  
2003-2006 Assistant Professor, The Pennsylvania State University  
2000-2003 Warwick Zeeman Lecturer, Warwick University

#### EDUCATION.

2001 Ph.D. (with distinction), Tel-Aviv University, Supervisor: J, Aaronson  
1997 M.Sc. (summa cum laude), Tel-Aviv University, Supervisor: J, Aaronson  
1994 B.Sc. (summa cum laude), Tel-Aviv University  
1991 Matriculation (“Bagrut”) from De Shalit High School

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### RECOGNITION

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#### HONORS.

2026: Elected Member, Academia Europaea  
2025: Plenary Speaker, International Congress of Basic Science, Beijing  
2024: Plenary Speaker, XLIV Dynamics Days Europe  
2023: Frontiers of Science Award  
Plenary Speaker, Brazilian Mathematical Colloquium  
2016: Semi-Plenary Speaker, British Mathematics Colloquium  
2013: Michael Brin Prize in Dynamical Systems  
The Anna and Lajos Erdős Prize in Mathematics  
Levinson Prize in Mathematics (Weizmann Institute)  
2010 Invited Speaker, International Congress of Mathematicians, Hyderabad  
2006 Sloan Research Fellowship  
2002: Nessyaho Prize for PhD’s in mathematics in Israel for the year 2001  
2000 Gilboa Award for Research Students (Wolf Foundation)

**GRANTS.**

- 2025 Minerva 714824, two years, PI
- 2022 ISF (Israel Science Foundation) 264/22, four years, PI
- 2017 BSF (US-Israel Binational Science Foundation) 2016105, four years, co-PI
- 2018 ISF 1149/18, four years, PI
- 2014 ISF 199/14, four years, PI
- 2009 ERC Starting Grant 239885, five years, PI
- 2007 NSF 0652966, three years, PI
- 2004 NSF 0400687, three years, PI
- 2002 EPSRC Grant GR/R90406/01, for a year-long symposium, co-PI

**INVITED LECTURE SERIES.**

(Items marked by (\*) have lecture notes available from my homepage.)

- 2026 *Irregularities in Uniform Distribution*, CIRM, Marseille (3 lectures)
- 2025 *Equidistribution of Discrepancy Sequences*, RIMS, Kyoto (4 lectures, joint with Dolgopyat)
- 2024 *Equidistribution of Discrepancy Sequences*, Penn State (2 lectures)
- 2023 *Overview of Ergodic Theory & Dynamical Systems for Physicists* \*  
(6× 2hr lectures), Physics Department, Weizmann Institute
- 2020 *The Transfer Operator Method* \* (5 lectures)  
Hausdorff Research Institute for Mathematics, Bonn
- 2016 *Thermodynamic Formalism for Countable Markov Shifts* \* (3 lectures)  
Schrödinger Institute, Vienna
- 2015: *Basic Ergodic Theory* (5 lectures)  
Gulbenkian Foundation Summer School, Lisbon
- Horocycle Flows on Surfaces with Infinite Genus* \* (3× 2hr lectures)  
Tata Institute for Fundamental Research, Mumbai
- 2014 *Symbolic Dynamics for Geodesic Flows* (2 lectures)  
Penn State University, State College, USA
- 2013: *Thermodynamic Formalism for Countable Markov Shifts* (3 lectures)  
EPFL, Lausanne
- The Transfer Operator Method* (2× 2hr lectures)  
Penn State University, State College, USA
- Markov Partitions for Diffeomorphisms* (3× 2hr lectures)  
Copernicus University, Toruń, Poland
- 2012: *Introduction to the Transfer Operator Method* (5 lectures)  
Second Brazilian School on Dynamical Systems, Saõ Carlos, Brazil
- Infinite Invariant Measures for Horocycle Flows* (4 lectures)  
Ergodic Geometry and Dynamics on Moduli Space, CIRM, Luminy, France
- Markov Partitions for Surface Diffeomorphisms* (5 lectures)  
ICTP, Trieste, Italy

- 2012: *Markov Partitions for Surface Diffeomorphisms* (3× 2hr lectures)  
Poncelet Laboratory, Moscow
- 2011 *Introduction to ergodic theory* (5 two-hour lectures)  
Modern dynamics and its interactions with analysis, geometry,  
and number theory, Będlewo, Poland  
*Markov partitions for surface diffeomorphisms* (2 lectures)  
Workshop on ergodic theory and dynamical systems, Warwick, UK  
*Markov partitions for surface diffeomorphisms* (3 two-hour lectures)  
Working seminar on dynamical systems, Penn State, USA
- 2006 *Critical phenomena for dynamical systems* (3 lectures)  
Global Dynamics Beyond Uniform Hyperbolicity, Northwestern, Illinois, USA
- 2003 *Thermodynamic formalism for countable Markov shifts* (3 lectures)  
Rennes seminar on dynamical systems, Rennes, France
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#### TEACHING AND OUTREACH

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#### GRADUATE STUDENTS & POST-DOCS

- Post-docs Dr Nicolò Paviato, started Nov 2025  
Dr. Debanjan Nandi, Weizmann Institute, 2020–2024  
Dr. Andrei Alpeev, 2023  
Dr. René Rühr, Weizmann Institute, 2020–2023  
Dr. Younghwan Son, Weizmann Institute, 2013–2015  
Dr. Yuri Lima, Weizmann Institute, 2011–2013
- Ph.D. Snir Ben-Ovadia, Weizmann Institute, graduated 2021  
Thesis title: *Symbolic Dynamics and Physical Equilibrium Measures in Non-Uniformly Hyperbolic Dynamics*  
Ofer Shwartz, Weizmann Institute, graduated 2020  
Thesis title: *Thermodynamic formalism of transient potentials*  
Yair Hartman, Weizmann Institute, graduated in 2015  
Thesis title: *Stationary Actions, Random Walks on Groups and Furstenberg Entropy*  
Godofredo Iommi, Warwick University, graduated in 2004  
Thesis title: *Multifractal analysis for countable Markov shifts*  
Van T. Cyr, Penn State University, graduated in 2010  
Thesis title: *Transient Markov shifts*
- M.Sc. Aviv Ruimi, Weizmann Institute, on-going  
Yair Daon, Weizmann Institute, graduated in 2012  
Thesis title: *Bernoullicity of equilibrium measures on countable Markov shifts*

- M.Sc. Snir Ben-Ovadia, Weizmann Institute, graduated 2017  
 Thesis title: *Symbolic dynamics for diffeomorphisms of compact smooth manifolds with non-vanishing Lyapunov exponents*
- Summer Student Eduard Duriev, Weizmann Institute (Kupcinet-Getz program) 2012  
 Project: *Random walks driven by irrational rotations*

### NEW LECTURE COURSES DESIGNED.

- Graduate: *Ergodic Theory* \* (Weizmann, Penn State)  
*Thermodynamic Formalism* \* (Penn State)  
*Topics in Dynamical Systems* \* (Weizmann, Penn State)

- Advanced UG: *Measure Theory* \* (Warwick)  
*Probability From an Analytic Point of View* (Penn State)  
*Linear Analysis* (Penn State)

### BOOK.

Dolgopyat, Dmitry; Sarig, Omri M.: *Local limit theorems for inhomogeneous Markov chains.*, Lecture Notes in Math., **2331** Springer, 2023, xiii+340 pp.

### STANDARD LECTURE COURSES TAUGHT.

*Calculus, Calculus with Analytic Geometry, Classical Analysis, Complex Analysis.*  
 For shorter lecture series and mini-courses, see page 2.

### OTHER TEACHING ACTIVITIES.

- Lectures to mathematically gifted high-school youths or advanced undergraduates:
- 2025 Ulpana De Shalit, Weizmann Institute (aimed at advanced undergraduates)
  - 2024 Overview of Ergodic Theory for Physicists, Weizmann Institute
  - 2023 Ulpana De Shalit, Weizmann Institute (aimed at advanced undergraduates)
  - 2013 Open day for prospective students, Weizmann Institute
  - 2012 Ulpana De Shalit, Weizmann Institute  
 Math Olympiad Club, Weizmann Institute  
 Kupcinet-Getz Summer program, Weizmann Institute
  - 2011 PMASS (special semester for advanced undergraduates), Penn State University
  - 2003 Mathematics Club, State College Area High School, Pennsylvania

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 SERVICE
 

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**EDITORIAL BOARDS.**

- 2013-present *Journal of Modern Dynamics*, Member  
 2018 Roy Adler Memorial Issue, *Journal of Modern Dynamics*, Co-Editor  
 2004 Special Volume of *Stochastics & Dynamics* (March Issue), Co-Editor

**PRIZE COMMITTEES.**

- 2026 Frontiers of Science Award, Global Committee  
 2025 Frontiers of Science Award, Global Committee  
 2024 Frontiers of Science Award, Subject Committee (Dynamics) and Global Committee  
 2022 Junior Brin Prize Committee (Member)  
 2020 Junior Brin Prize Committee (Member)  
 2018: Junior Brin Prize Committee (Member)  
       ICM Program Committee (Panel Member)  
 2017 Nesyaho Prize Committee (Chair)  
 2016 Junior Brin Prize Committee (Member)

**REFEREEING (GRANT PROPOSALS).**

- Canada: Natural Sciences & Engineering Research Council  
 Chile: The Chilean Research Fund Council  
 EU: European Research Council  
 France: Agence National de la Recherche  
 Poland: Narodowe Centrum Nauki  
 Portugal: Fundação para a Ciência e a Tecnologia  
 Germany: Einstein Stiftung Berlin  
 Israel: Israel Science Foundation  
 UK: EPSRC, UKRI  
 US: NSF, Simons Foundation

**CONFERENCES ORGANIZED.**

- 2019 *Dynamics, geometry, and combinatorics*  
       Bernoulli center, EPFL, Lausanne, Switzerland (October 21-25, 2019)  
  
 2018 *Two day meeting on infinite ergodic theory (Aaronson-fest)*  
       Hebrew University, Jerusalem (February 13–14, 2018)

- 2017 *A workshop on mathematical physics*  
Weizmann Institute of Science, (January 24–25, 2017)
- 2011 *Section on ergodic theory and dynamical systems*  
Annual meeting of the Israel Mathematical Union, Bar–Ilan (June 16 2011).
- 2010 *Action Day Seminar*  
Weizmann Institute (December 3, 2010)  
*Infinite Ergodic Theory and Related Fields*  
Weizmann Institute (June 27–July 1, 2010)
- 2008 *Penn State–Maryland Workshop on Dynamics*  
Penn State (October 23–26, 2008)
- 2007 *Dynamical Ideas in Geometry, Topology and Number Theory*  
Penn State (May 5–6, 2007)
- 2003 *Symbolic Dynamics and Ergodic Theory*  
Warwick (July 7–August 18, 2003)  
*Year long symposium on Geometric and Probabilistic Aspects of Dynamics*  
Warwick, 2002-2003
- 2001 *Complex Dynamics and Ergodic Theory*  
Warwick (January 19–21, 2001)

## REFEREEING (PAPERS).

Advances Math	American J. Math	Annals of Math	
Ann. Inst. H. Poincaré	Bulletin SMF	Comm Math Phys	DCDS
Duke Math J	Ergodic Th Dynam Syst	Fundamenta Math	
IMRN	Inventiones Math	Israel J Math	
J. Amer Math Soc	J of Modern Dynamics	J Stat Phys	Compositio Math
Letters in Math Phys	Math Research Letters	Nonlinearity	Pacific J Math
Prob Th Related Fields	Proc AMS	Proc LMS	Springer LNM
Stoch & Dynam	Studia Math	Trans AMS	

## ADMINISTRATION.

- Head of the Department of Mathematics (2014–2018)  
Faculty Hiring Committee, member (2012–2018)  
Weizmann Institute Hiring Committee (“V9”), member, (2013–2017, 2025-ongoing).  
Feinberg Graduate School Thesis Committee, member (2010–2014)

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VISITING POSITIONS, CONFERENCES, SEMINARS, COLLOQUIA

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**VISITING POSITIONS.**

- 2024 Soochow University, Suzhou, China, (2 weeks)
- 2019 Univesité Paris-Sud, Paris, France, (3 months)  
IHÉS, Bures-sur-Yvette, France (1.5 months)
- 2013 Copernicus University in Toruń, Poland (one month)
- 2012 IMPA, Rio de Janeiro, Brazil (two weeks)
- 2011 Penn State University, Pennsylvania (two weeks)
- 2009 ETH, Zürich, Switzerland (one week)
- 2008 University of Surrey, Guildford, UK (two weeks)
- 2007 University of Notre Dame Indiana (two weeks)
- 2006 Princeton University, Princeton, New-Jersey (two weeks)  
University of Bristol, Bristol, United Kingdom (two weeks)  
Université Picardie Jules Verne, Amiens, France (two weeks)
- 2005 Institut Henri Poincaré, Paris, France (one month)
- 2004 Max-Planck-Institut für Mathematik, Bonn, Germany (one month)  
Institut de Recherche Mathématique de Rennes, Rennes, France (two weeks)
- 2001 Institut des Hautes Études Scientifiques, Bures-sur-Yvette, France (two months)

**INVITED TALKS IN CONFERENCES.**

- 2025 International Congress of Basic Science (Plenary Talk), Beijing  
Recent Progress in Ergodic Theory (2 talks), RIMS, Kyoto

- 2024 Penn State-Maryland Workshop on Dynamics, College Park  
Schock Prize Colloquium, Mittag-Leffler Institute, Stockholm  
Methods in Nonlinear Dynamical Systems and Ergodic Theory, Warwick University
- 2023 Brazilian Mathematical Colloquium (Plenary Talk), Rio de Janeiro
- 2022 Ergodic Theory and Dynamical Systems, ICTS-TIFR, India (zoom)  
Special Day on Ergodic Theory (Lin-fest), Ben-Gurion University
- 2021 Brazilian Mathematical Colloquium (zoom)  
Expanding Dynamics IX, Northwestern, (zoom)  
Interweaving in Dynamics, IMPAN, Będlewo (zoom)  
Schmeling-Fest, Mittag-Leffler Institute, Stockholm (zoom)  
Anosov Memorial Conference, Moscow (zoom)
- 2019 Beyond uniform hyperbolicity, CIRM, Marseille, France  
Thermodynamic formalism, Mittag-Leffler, Stockholm, Sweden  
Thermodynamic formalism, Warwick University, Coventry, UK
- 2018 Dynamics seminar, Scuola Normale Superiore di Pisa, Italy  
Recent Progress in Ergodic Theory, RIMS, Kyoto, Japan  
Ergodic aspects of dynamical systems, Będlewo, Poland
- 2017 Mathematical Congress of the Americas, Montreal, Canada  
Bowen Legacy Conference, UBC, Vancouver, Canada  
Workshop on Infinite ergodic theory and related fields, Tel Aviv University, Israel
- 2016 Ergodic geometry (Ledrappier-fest), Paris, France  
Penn State-Maryland Conference, Penn State, State College PA, USA
- 2015 Fifty years of ergodic theory in Jerusalem, Hebrew university, Jerusalem  
Ergodic theory and dynamical systems, Będlewo, Poland
- 2014 Ergodic Theory and Dynamical Systems, Toruń, Poland  
Progress in Dynamics (Katokfest), Banff, Canada
- 2013 Ratnerfest, Hebrew University, Israel  
German–Polish Joint Conference on Probability and Mathematical Statistics, Toruń
- 2012 Ergodic Theory and Number Theory, Tokyo, Japan  
“Action Now” meeting, Hebrew University, Jerusalem

- 2011 Trends in dynamics, Northwestern, Evanston, USA  
Workshop on dynamical systems, Penn State, State College, USA  
Workshop on dynamical systems. University of Maryland, College Park, USA  
Beyond uniform hyperbolicity 2011, Luminy, Marseille, France  
Israel–Poland Mathematical meeting, Łódź, Poland
- 2010 International Congress of Mathematicians, Hyderabad, India  
Meeting of the Israel Mathematical Union, semi–plenary talk  
One day meeting on ergodic theory, Paris VI, France
- 2009 Workshop on dynamical systems and related fields, University of Maryland  
Dynamical systems II, University of North Texas, Denton, USA  
Special session on group actions on homogeneous spaces, AMS meeting, Washington DC
- 2008 Workshop on dynamical systems and related fields, University of Maryland, USA  
Infinite ergodic theory, Université de Rennes, France
- 2007 Measures and Dynamics on Groups and Homogeneous Spaces, TATA, Mumbai, India  
Nonuniformly Hyperbolic Dynamics, Instituto Superior Técnico, Lisbon, Portugal  
Equadiff, Technical University of Vienna, Vienna, Austria
- 2006 Théorie ergodique en mesure infinie, Université Picardie Jules Verne  
Bristol Sessions in Advanced Mathematics: Effective equidistribution, Bristol
- 2005 Dynamics and Related Fields, University of Maryland, MD  
Colloquium in Dynamical Systems and Smooth Ergodic Theory, Université Bordeaux 1  
Workshop on Probabilistic Limit Laws for Dynamical Systems, Edinburgh  
Rigidity, Dynamics, and Group Actions, Banff, Alberta, Canada
- 2004 Algebraic and Topological Dynamics, MPIM, Bonn, Germany  
Recent Progress in Dynamics, MSRI, CA  
Workshop on Dynamics, University of Maryland, MD  
Complex Dynamics, RIMS, Kyoto, Japan
- 2003 Hayashibara Forum, Oxford and Warwick, England  
Advances in Hyperbolic Dynamics, ETH Zürich, Switzerland

- 2002 LMS Meeting on Ergodic Theory, Manchester, England  
 Holomorphic Iteration and Non-uniform Hyperbolicity, Warsaw, Poland  
 Meeting on Dynamical Systems, Göttingen, Germany
- 2001 Théorie ergodique et systèmes dynamiques, Villetaneuse, Paris, France  
 Partially Hyperbolic Dynamical Systems, University of Surrey, UK
- 2001 Non-Hyperbolic Dynamical Systems, Göttingen, Germany  
 Systèmes Dynamiques, CIRM, Luminy, France  
 Third UK-Japan Winter School, Bury st Edmunds, UK
- 1999 Harmonic Analysis and Zeta Functions, Göttingen, Germany  
 Meeting on Random Dynamical Systems, MFO, Oberwolfach, Germany  
 Israel Mathematical Union Meeting, Haifa University, Haifa, Israel
- 1997 Israel Mathematical Union Meeting, Bar-Ilan University, Israel

#### **SEMINARS & COLLOQUIA.**

- 2026 Hebrew University Mathematics Colloquium
- 2025 Dynamics Seminar, Soochow University, Suzhou, China  
 Haifa University Mathematics Colloquium  
 Dynamics Seminar, Peking University, Beijing  
 Ulpna De Shalit Colloquium, Weizmann Institute
- 2024 Ergodic Theory Seminar, Hebrew University  
 Penn State Dynamics Seminar (two talks)  
 Ergodic Theory Seminar, Ben Gurion University  
 Dynamics Seminar, Scuola Normale Superiore di Pisa  
 Ergodic Theory Seminar, Tel Aviv University  
 Action Now Seminar (zoom)
- 2023 Dynamics seminar, POSTECH, South Korea (zoom)  
 Dynamics seminar, ICTS, Vienna  
 Brazil Mathematics Colloquiu, Rio de Janeiro
- 2022 Ergodic theory seminar, Hebrew University
- 2021 Dynamics seminar, University of Wisconsin in Madison (zoom)  
 Ergodic theory seminar, Hebrew University

- 2020 Colloquium, Tel Aviv University (zoom)  
 Zürich Ergodic Theory and Dynamical Systems Seminar (zoom)  
 Resistência Dinâmica Webinar, Rio de Janeiro (zoom)
- 2019 Action Now Seminar, Weizmann, Israel  
 Statistical mechanics seminar, Weizmann, Israel  
 Ergodic theory seminar, Paris VI, France  
 Dynamics seminar, Paris-Sud, France  
 Dynamics seminar, Rennes, France  
 Ergodic theory seminar, KIAS, Seoul  
 Colloquium, POSTECH, Pohang, S. Korea  
 Homogeneous spaces seminar, Technion, Israel
- 2018 Dynamics seminar, Hebrew University, Jerusalem  
 Dynamics seminar, Centro de Giorgi, Pisa
- 2017 Colloquium, Northwestern University, USA  
 Dynamics seminar, University of Chicago, USA
- 2016 British Mathematical Colloquium, Bristol, UK  
 Yeshiva University Colloquium, New York City, USA  
 NYC dynamics seminar, New York City, USA  
 Ergodic theory seminar, Bristol, UK
- 2014 Universite of Paris-Sud, France  
 Université Nice Sophia Antipolis, France  
 Ben Gurion University, Beer-Sheba, Israel
- 2013 Institute of Mathematics of the Polish Academy of Sciences, Warsaw  
 Penn State University
- 2012 Moscow Independent University, Russia  
 IMPA, Rio de Janeiro, Brazil  
 University of São Paulo, Brazil  
 Hebrew University, Jerusalem  
 Tel Aviv University
- 2011 Northwestern, Evanston, USA  
 Penn State, University Park, USA  
 Technion, Haifa, Israel  
 Hebrew university, Jerusalem, Israel (colloquium)
- 2010 Hebrew university, Jerusalem, Israel (colloquium)  
 Penn State university, Tel-Aviv University

- 2008 Tel Aviv University, Israel  
CUNY, New York, USA  
University of Surrey, Guildford, UK  
University of Bristol, UK  
Warwick University, Coventry, UK
- 2009 Tel Aviv University, Israel (colloquium)  
Ben-Gurion University, Beer-Sheba, Israel (colloquium)  
Technion, Haifa, Israel (colloquium)  
Ohio State University, Columbus, USA (colloquium)  
ETH Zürich, Switzerland
- 2007 Tel Aviv University, Israel  
Hebrew University, Israel  
University of Chicago, IL  
Penn State University, State College, PA  
Ohio State University, Columbus, OH
- 2006 Hebrew University, Jerusalem, Israel  
Notre-Dame University, Southbend, IN  
Princeton University, Princeton, NJ  
University of Warwick, Coventry, England
- 2005 Ben-Gurion University, Beer-Sheva, Israel  
Caltech, Pasadena, CA  
Princeton University, Princeton, NJ  
Northwestern University, Evanston, IL  
Institut Henri Poincaré, Paris France (two hours)
- 2004 Hebrew University, Jerusalem, Israel  
Ben-Gurion University, Beer-Sheva, Israel  
Tel-Aviv University, Tel-Aviv, Israel  
University of Washington, Seattle WA  
Université de Rouen, Rouen, France  
Budapest University of Technology and Economics, Budapest, Hungary  
Cornell University, Ithaca, NY  
Ohio State University, Columbus, OH  
Courant Institute of Mathematical Sciences, New York, NY  
Penn State University, State College, PA (two talks)

- 2003 University of East-Anglia, Norwich, England  
Georgia Institute of Technology, Atlanta, GA  
Penn State University, State College, PA (two talks)  
Warwick University, Coventry, England  
University of Bristol, Bristol, England (colloquium)
- 2002 Technion, Haifa, Israel  
Université de Rennes I (two talks)  
Hebrew University at Jerusalem, Israel (two talks)  
Tel-Aviv University, Israel (two talks)  
Warwick University, Coventry, England (two talks)
- 2001 University of Manchester, Manchester, England  
University of Liverpool, Liverpool, England (colloquium)  
Tel-Aviv University, Tel-Aviv, Israel  
Warwick University, Coventry, England  
Université de Paris-Sud, Orsay, France
- 2000 Queen Mary University of London, London, England  
Hebrew University at Jerusalem, Israel  
Tel-Aviv University, Tel-Aviv, Israel  
Warwick University, Coventry, England
- 1999 Université de Paris-Sud, Orsay, France  
Hebrew University at Jerusalem, Israel  
Tel-Aviv University, Tel-Aviv, Israel

(Last update: April 2026)