

Azi (Eliezer) Lipshtat, PhD.

PERSONAL INFO

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TRAINING and EDUCATION

- 1996-1998 B.Sc. studies at the Hebrew University,
Physics, Mathematics and Computer sciences (magna cum laude).
- 1999-2000 M.Sc. studies in Physics, the Hebrew University.
Thesis topic: Diffusion-Controlled Coarsening of Fractal Clusters with Tunable
Dimension
Thesis advisor: Prof. Baruch Meerson
- 2001-2005 Ph.D student at the Hebrew University.
Thesis topic: Gas-Grain Interactions in e Interstellar Medium.
Thesis advisor: Prof. Ofer Biham.
- 2005-2008 Postdoctoral fellow, Mount Sinai School of Medicine, NY.
Ravi Iyengar's lab, Department of Pharmacology & Systems Therapeutics.
Modeling of cell signaling and regulation networks.

RESEARCH POSITIONS

- 2009 Assistant Professor (Research Track) Mount Sinai School of Medicine.
Department of Pharmacology & Systems Therapeutics.
Systems biology and modeling of intracellular signaling networks.
- 2010 - 3/2012 Senior Lecturer. Bar-Ilan University
The Leslie and Susan Gonda (Golds mied) Multidisciplinary Brain Research Center.
Modeling and simulations of neuron circuits.
- 9/2012 - now Researcher. Soreq Nuclear Research center.
Modeling and analysis of EM pulse phenomena (lightning) and study of the lower
ionosphere.
Modeling and numerical analysis of blast and shock waves

TEACHING EXPERIENCE

- 1998-2000 Jerusalem College of Technology.
Teacher: Summer courses in Physics.
- 1999-2005 The Hebrew University - Department of Physics
Teaching assistant in the following courses:
Mechanics & Relativity; Electricity & Magnetism; Waves & Optics;
General Physics for Biology Students; Analytical Electricity.
- 2004 The Hebrew University - Department of Physics.
Teacher in course: Intro. to Physics for Humanities & Social Sci.

ACADEMIC AWARDS

- 1996 The Rector prize for excellence in the first year of B.Sc. studies.
1997, 1998 "Amirim" scholarship

OTHER ACADEMIC ACTIVITY

Reviewing scientific contributions for the following journals:

- Monthly Notices of the Royal Astronomical Society,
- International J. of Neuroscience,
- Molecular Systems Biology,
- JET Systems Biology,
- BMC systems Biology,
- International Journal of Molecular Sciences.

Mentoring summer student in the System Biology Center, New York (SBCNY).

Co-mentoring MSc. student. Thesis subject: Correlation between EMP and Infrasound Signals.