Name: Erez Ribak
Contact Details: eribak@physics.technion.ac.il
Department of Physics, and Asher Space Research Center, Technion - Israel Institute of Technology
Previous employment in academic and other institutions:
University of Arizona, Steward Observatory
University of Arizona, College of Optical Sciences
Jet Propulsion Laboratory, California Institute of Technology
National University Ireland, Galway
Education, qualifications and professional experience:
B. Sc., Physics, Technion, Haifa
M. Sc., Physics, Technion, Haifa
Ph. D., Physics and Astronomy, Tel Aviv University
Past and current research interests:

1. Coherence and speckle.
   a. Astronomical longitudinal coherence by interferometry for bio-lines on extrasolar planets
   b. Increasing the spatial coverage in stellar interferometry: multiple beam combination
   c. Long base-line stellar interferometry in space
   d. Simulated annealing for space telescopes
   e. Understanding complex structures from return speckle statistics: the human retina
2. Imaging through distorting media
   a. Characterisation of ocular surfaces and their distortions; novel measurement methods and statistics
   b. Tomographic probing of atmospheric turbulence for extremely large telescopes
   c. In-depth adaptive correction of atmospheric turbulence
   d. Measurement and tomographic adaptive correction of ocular surfaces
3. General physics
   a. Cosmological simulations of the early universe
   b. Atmospheric radiometry
   c. Analysis of Josephson junctions
   d. Removing redundancy in silicon for actuation
   e. Employing quantum imaging to surpass the diffraction limit

Supervision: 20 Research Masters students, 4 PhD students**,**
Teaching: advanced optics and advanced student laboratories
Previous grants: Ministries of Science, Defense, and Health, Israeli Academy of Sciences, European Funds.
Publications: Over 230 papers, including book chapters, and 68 refereed papers **(all links are here)**