

## Research students

- 1996 Yossi Tsvieli, M.A. The NDVI of lichens in the Negev as a function of the rainfall and water availability.
- 1999 Bat Sheva Kalheimer, M.A., Soil characteristic analyzed by spectral reflectance and laboratory measurements, Zikim - Beer-Sheva cross section. (Co. Advisor M. Zilberbush).
- 2002 Guy Serbin, M.Sc. Microwave Thermodielectric behavior of soil-water mixtures & their potential effects on microwave remote sensing (Co Advisor J Ben Asher).
- 2002 Gil Revivo, M.A. Use of remote sensing by radar (ERS-2 SAR), for mapping microtopographical roughness and threshold shear velocity in relation to Aeolian processes, demonstrated on Revivim-Zeelim area, Israel (Co Advisor H. Tsoar).
- 2002 Eran Barzilai, M.A. Geographic changes of the Ashdod coastal dunes that occurred from the mid 1940's to the mid 1990's. (Co Advisor H. Tsoar).
- 2002 Yoav Lehan, M.Sc. (Geophysics, TAU), Monitoring water quality in the Haifa Bay by satellite remote sensing.
- 2003 Tali Neta, M.A. Mapping of exposed and buried river channels using remote sensing techniques in the Negev-Nitzana height - An example from Mubra River.
- 2003 Gefen Ronen-Eliraz, M.A. Assessing soil water content by a scatterometer. (Co Advisor J. Ben-Asher, Y. Eyal).
- 2003 Moti Shomron, M.Sc., Irrigation, and climate control in greenhouses using I.R. radiometers and NDVI (Principal Advisor J. Ben Asher).
- 2004 Michael Sprintsin, M.A. Assessment of tools for soil water content estimation and mapping in the Negev desert open areas using archived ERS SAR images (Co Advisor J. Ben-Asher).
- 2004 Orly Oren, M.A. Contamination processes of groundwater under cultivated fields in an arid environment, central arava valley, Ben Gurion University of the Negev (Principal advisor Dodik Avram).
- 2004 Goubin Zhu, Ph.D. Remote sensing and geographic information systems: application of new techniques to urban open space evaluation.
- 2005 Eran Ohel, M.Sc., Multi-pixel anomaly detection in noisy hyper-spectral images (Co Advisor S. Rotman)
- 2006 Guy Tamir, M.A. Soil amendment by salt removing plants in arid environment (Principal Advisor J. Ben-Asher).

- 2006 Yanai Ankri, M.Sc., Road detection in multispectral satellite images using feature extraction and selection (Co-Advisor S. Greenberg).
- 2007 Shira Amir (Tamir), M.A., Monitoring spatial and temporal plant cover by remote sensing tools in the visible, infra-red and microwave regions (Co Advisor J. Ben-Asher).
- 2007 David Glidai, M.A., Accuracy and detail in the national topographic geographic system of Israel.
- 2007 Batya Kolton, M.Sc., Reclustering hyperspectral data using variance-based criteria (Co Advisor S. Rothman).
- 2007 Karin Ardon, M.A., Dynamic and ecology processes of the Ashdod-Nizzanim Nebkha dunes (Co Advisor H. Tsoar).
- 2007 Rimon Wenkart, M.A., Aeolian sand incursion into the north western Negev during the upper quaternary (Co Advisor H. Tsoar).
- 2007 Michal Sherman, M.A., Relationship between snow cover and climatic parameters at Mt. Hermon, Israel.
- 2007 Eldad Eshed, M.A., Monitoring vegetation dynamics in Mongolia using remote sensing indices (Co Advisor L. Orlovsky).
- 2007 Shimrit Maman, M.Sc., Monitoring indigenous water harvesting systems on takyr in Turkmenistan by remote sensing (Co Advisor L. Orlovsky).
- 2007 Eli Argaman, Ph.D., Assessing spatial and temporal variability of surface energy balance by remote sensing (Co Advisor J Ben Asher).
- 2007 Gabriel Siboni, Ph.D., A GIS model for evaluating water pollutant in a semi-arid region lake: The contribution to Kinneret Lake basin.
- 2008 Arthur Genis, Ph.D., Modeling the minimum energy concept for soil water extraction by roots (Co Advisor J. Ben Asher).
- 2008 Joseph Sapir, Ph.D., Distribution changes in the semi-steppe shrublands of the transition zone between the climatic Mediterranean and desert regions. (Principal Advisor J. Ben-Asher).
- 2008 Amir Natan, M.Sc., Monitoring phytoplankton in Lake Kinneret by satellite remote sensing (Co Advisor Y. Yacobi).
- 2008 Shai Kaplan, M.Sc., Monitoring pasture degradation in Turkmenistan using remote sensing (Co Advisor L. Orlovsky).
- 2008 Offir Matsrafi, M.Sc., Modeling morphological dynamics of Sarykamysh Lake by remote sensing and G.I.S (Co Advisor L. Orlovsky).
- 2008 Shlomo Asis, M.Sc., Data mining by hyper spectral imaging of a man-made anomaly with a desert background (Co Advisor S. Rotman)

- 2008 Jorge Jesus, Ph.D., Geostatistical assessment of organic wheat response to soil parameters (Principal advisor J Ben Asher).
- 2009 Ariel Nahlieli, M.A., Erosion and sedimentation in the margins of yamin plateau.
- 2009 Roi Shilo, M.A., Evolution of agricultural land-use and water consumption in the Jordan Valley. (Co Advisor J. Ben-Asher).
- 2010 Hila Blecher, M.Sc., Detecting anomalous objects in hyperspectral data using segmentation and independent component analysis (Co Advisor S. Rothman).
- 2010 Assaf Bashkin, M.Sc., Automatic cloud masking in weather satellite images with snow background.
- 2010 Lior Sagiv, M.Sc., Detection and identification of effluent gases by long wave infrared (LWIR) hyperspectral images.
- 2010 Marina Hetz, M.A., Estimation of the vegetation parameters (Leaf Area Index) from polarimetric SAR data.
- 2010 Guy Hetz, M.A., Monitoring surface alternations in the Yamin Plateau by spaceborne images and aerial photography between 1945-2009.
- 2011 Yitzhak August, M.Sc., Identifying persistent scatterers in the process of radar interferometry (Co Advisor S. Rothman).
- 2011 Harari Noam, M.Sc., Filter research and speckle noise removal in polarized SAR images (Co Advisor S. Rothman).
- 2011 Hanan Spond, M.Sc., Sub-pixel target detection in hyperspectral domain.
- 2012 Offir Graubart, M.Sc., Anomaly detection in polarized images (Co Advisor S. Rothman)
- 2012 Joel Roskin, Ph.D., The timing and the environmental and palaeoclimatic significance of the late quaternary dune encroachments into the northwestern Negev Desert (Co Advisor H. Tsoar)
- 2012 Uriel Ankor, M.Sc. Investigation of indicators for automatic atmospheric correction in remote hyperspectral systems.
- 2012 Adi Prigozin, M.A., Development of thermal remote sensing system for water status monitoring on palm trees for irrigation management and malfunction recognition.
- 2013 Uriya Talmud, M.Sc., Cross wind determination by laser backscattering from atmospheric aerosol.
- 2013 Yuval Cohen, Ph.D., Target detection in hyperspectral images (Co Advisor S. Rothman).

- 2013 Adi Maman, M.A., Development of thermal remote sensing system for water status monitoring and mapping in palm trees for irrigation management and water stress recognition.
- 2013 Sivan Isaacson, M.A., Remote sensing monitoring of drought stress in plants under climate fluctuation in the Arava Valley.
- 2013 Doron Stern, M.Sc., Improvement of the detection probability and the false alarm distribution in hyperspectral point target algorithms by using segmentation and spatial local processing methods.
- 2013 Dima Shurin, MSc., Man-made target detection in SAR images using TAD algorithm.
- 2014 Elad Kuperberg, M.Sc., Fusion of point target detectors on hyperspectral data (Co Advisor S. Rotman).
- 2014 Aliza Drori, Ph.D., Study of associations between spatial dispersions of ischemic heart, respiratory and neurological diseases, and meteorological, air pollution and socio-economic factors in Israel Negev Desert (consulting advisor Dr. S. Livnat).
- 2014 Gefen Eliraz, Ph.D., Recharge potential from a flood event in an arid area (Co Advisors H. Ginat and D. Avraham).
- 2014 Shimrit Maman, Ph.D., Mobility and stability of the central Asian ergs, a study by remote sensing and geographic information systems. (Co Advisor H. Tsoar).
- 2014 Eran Ohel, Ph.D., Spectral analysis of multi-dimensional images of eye retinal (Co Advisor S. Rotman).
- 2014 Paz Kuplik, M.Sc., Target detection in hyperspectral images (Principal Advisor S. Rotman)
- 2014 Ariel Orphaig, M.Sc., Advanced anomaly detection algorithms for spectral mixtures scenarios in hyperspectral Images.
- 2015 Ziv Rotenberg, M.A., Monitoring *phelipanche aegyptiaca* in agricultural fields by using remote sensing (Co Advisor J. Efrat).
- 2015 Marina Hetz, Ph.D., SAR backscatter dependence on various land covers in semi-arid terrain (Co Advisor S. Rotman).
- 2015 Guy Hetz, Ph.D. Desert alluvial fan dating by remote sensing measurements of surface roughness (Co Advisor A. Mushkin).
- 2015 Yair Elhadad, M.Sc., Analysis of methods for improving algorithms of anomaly change detection in hyper-spectral Images.
- 2015 Valerie Boyko, M.Sc., Biogeochemistry of the redox-sensitive elements in the sediments of the Gulf of Aqaba (Co Advisor A. Kamyshny).

- 2016 Aviv Cohen-Zada, M.A. wind streaks on Earth: geomorphological and visual characteristics using remote-sensing.
- 2016 Rodica Indoitu, Ph.D., Dust Storms in middle Asia: spatial and temporal variations (Co Advisor L. Orlovsky).
- 2016 Giorgi Kozhoridze, Ph.D., Evolutionary and migratory patterns of pistacia genus, differential adaption to environmental conditions: a microscale study using remote sensing (Co Advisor A. Golan).
- 2016 Yitzhak August, Ph.D., Developing a method for hyper-spectral imaging based on optical compressed sensing techniques (Co Advisor A. Stern).
- 2016 Yuval Sade, M.A., Use of high spatial resolution remote sensing for hydro-geomorphologic analysis of medium-sized arid basins.
- 2016 Dmitriev Igal, M.Sc., Segmentation, and compression of multispectral\SAR imagery (Co Advisor S. Rotman).
- 2016 Shiran Havivi, M.A., Advanced interferometric synthetic aperture imaging radar for dune mapping.
- 2017 Sivan Isaacson, Ph.D. Monitoring drought stress in acacia trees in hyper arid zone: geo-ecophysiology aspects.
- 2017 Shiran Havivi, MA, Detection of subtle geomorphic changes in coastal dunes by interferometric synthetic aperture radar persistent scatterers (PSInASR) in the sands of Rishon Lezion.
- 2017 Daniel Benditkis, M.Sc., Comparison between additive and substitutive target models using GLRT and Continuum Fusion in hyperspectral target detection.
- 2017 Ira Dayan, M.Sc., Vector detection methods (Co S. Rotman).
- 2019 Aharon Adam, M.A., Using topographic data for examine the RSL formation mechanisms on mars. In order to confirm\disprove attendance of flowing water on mars surface (Co Advisor S.Maman, I. Haviv and A. Mushkin).
- 2019 Lonia Friedlander, Ph.D., The use of remote sensing to detect and monitor areas with trace metal contaminated soil (Postdoctoral fellow).
- 2019 Inbal Ronay, M.A., Weed interference effect on the physiology and reflectance characteristics of corn (Co J. Efrat).
- 2020 Aviv Cohen-Zada, Ph.D. Wind streaks on Earth; exploration and interpretation.