

# Sivan Isaacson

## *Curriculum vitae*

Earth and Planetary Image Facility  
Ben-Gurion University of the Negev  
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## EDUCATION

**Ph.D. candidate** Department of Geography and Environmental Development,  
2011-Present Ben-Gurion University of the Negev, Israel.

*Dissertation title:* Monitoring Drought Stress in Acacia Trees in Hyper Arid Zone  
Geo-Ecophysiology Aspects.

*Advisors:* Prof. Dan G. Blumberg, Prof. Jhonathan Ephrath, Dr. Shimon  
Rachmilevich

*Research Labs and  
institute:* Earth and Planetary Image Facility Laboratory.  
French Associates Institute for Agriculture and  
Biotechnologies of Drylands.

**M.A.(cum laude)** Geographical Information Technologies, the Department of  
2009-2011 Geography and Environmental Development, Ben-Gurion  
University of the Negev, Israel.

*Thesis title:* Monitoring drought stress in hyper-arid-zone trees by remote  
sensing in the southern Arava valley.

*Advisors:* Prof. Dan G. Blumberg, Dr. Hanan Ginat

*Research Lab:* Earth and Planetary Image Facility Laboratory.

**B.A.(cum laude)** Department of Geography and Environmental Development,  
2006-2009 Ben-Gurion University of the Negev, Israel.

## CONFERENCE PRESENTATIONS

October 2013. **Monitoring Acacia seedlings establishment and survival for a geo-spatial analysis model** (oral presentation). Acacias in the Arava: past, present, future. Dead sea-Arava science center. Hazeva, Israel.

October 2013. **Preliminary analysis of long and short term spatial processes of Acacia population using a single near infra-red aerial photograph** (oral presentation). Acacias in the Arava: past, present, future. Dead sea-Arava science center. Hazeva, Israel.

April 2013. **Individual based, long term monitoring of acacia trees in hyper arid zone: Integration of a field survey and a remote sensing approach** (poster). European Geosciences Union (EGU) General Assembly 2013. Vienna, Austria.

November 2012. **Long term monitoring of water stress in acacia trees in the Arava** (oral presentation). Workshop on developing protocols for monitoring changes in the physiology of Acacias along both sides of Wadi Arava region. Aqaba, Jordan.

March 2011. **Monitoring Drought Stress of Trees in a Hyper-Arid Zone by Remote Sensing; Preliminary Results from the Southern Arava Valley** (poster). 1<sup>st</sup> Forestry Workshop: Operational Remote Sensing in Forest Management. Prague, Czech Republic.

## RESEARCH EXPERIENCE

**Research Assistant** 2006-2009      Geomorphology Lab, Department of Geography and Environmental Development, Ben-Gurion University. Experienced variety of research methods and tools in lab and in the field under the framework of different geomorphology researches.

## TEACHING EXPERIENCE

Department of Geography and Environmental Development, Achva College:

**Instructor**                      Aerial photography  
Fall 2012                      Taught practical lessons in an introductory course. Provided theory explanation and practice experience of methods for data extraction and interpretation of aerial photographs.

Department of Geography and Environmental Development, Ben-Gurion University:

**Teaching Assistant**      Image Processing of Remote Sensing  
Fall 2013; Fall 2012;      Composed course assignments, graded student assignments  
Fall 2011; Spring      and final projects, met with students, and maintained a  
2010                      course web site.

**Teaching Assistant**      Statistical Methods 2  
Spring 2011; Spring      Graded student assignments and exams, met with students,  
2010                      and maintained a course web site.

**Teaching Assistant**      Cartography  
Fall 2011                      Graded student assignments and exams, met with students,  
and maintained a course web site.

**Teaching Assistant**      Using Radar in Earth Sciences

Fall 2010                      Composed course assignments, graded student assignments and exams, met with students, and maintained a course web site.

Science Oriented Youth (NOAAR SHOCHER MADA), Ben-Gurion University:

**Tutor**  
2010-Present                      Designed and taught experiential workshops including presentation and activities on remote sensing applications for youth.

Designed and taught a yearly cartography course for 12<sup>th</sup> class gifted student (2012).

**HONORS AND AWARDS**

The Community Outreach Unit, Ben-Gurion University:

**Scholarship for  
community activity**  
2009-Present                      -Tutor semester course of Remote Sensing for 7<sup>th</sup> class gifted students.  
-Tutor 3 day workshops on remote sensing applications for youth students.