

Ilan Schwartzman

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Profile:

- **Electrical Engineering Ph.D. student at the Ben Gurion University.**
- **Conducting research in the area of target and anomaly detection in multi-dimensional data cubes.**
- **Hands on experience in the field of magnetic sensing.**
- **Experience as a T.A. and as a laboratory instructor.**

Education:

2014 - Today) First year Ph.D. student at the Earth and Planetary Imaging Facilities in Ben Gurion University of the Negev, specializing in image processing.

- **Research subject : “Background Estimation in Hyperspectral images in non-stationary images”.** In hyperspectral images background estimation is a crucial step for most of the algorithms. Many algorithms assume that the image doesn't change a lot in a small region, yet in many real scenes this is not the case and it cause those algorithms to fail. i.e. targets are falsely detected or target are not detected when they exist. This research addresses these problems and suggests sophisticated solution that both solves the problem and time efficient. Supervised by Professor Stanley Rotman and Professor Dan Blumberg.
- **General research in the field of image processing,** focusing on: **Anomaly Detection, Target Detection, Classification, feature extraction, covariance estimation** and more supervised by Professor Stanley Rotman and Professor Dan Blumberg. The research is compound of **developing algorithms**, simulating, experimenting and validating in multi-spectral, hyperspectral and multi-temporal images.
- Presented two **articles** in **IEEE 2014** in Eilat.

2012 - 2013) **M.Sc in Electrical engineering** in the area of **image processing**.

- Studied in the **fast track** towards a Master's degree.
- Wrote a **thesis** on the subject of **anomaly detection** in multi-temporal thermal imaging.
- Presented in the conference **ICIS 2014**.
- Graduated with a **GPA of 89**

2009 - 2013) **B.sc in Electrical Engineering**, specializing in **signal processing** and **VLSI**

- Graduated with excellence, holding a GPA of 89.
- Received Intel's excellence scholarship, the electrical engineering department scholarship and degree of honor.

2002 - 2006) Studied in at the airforce technical school

- Top grades student in high school.
- Graduated with a GPA of 109

Work Experience:

2014 - Today) Researcher in the field of Magnetic ranging algorithms at the Sensor laboratory in Ben Gurion University of the Negev.

- Matlab and C++ program with CUDA.

2013 - Today) Teaching assistant, lab instructor and top high school students teacher in Ben Gurion University

- Instructing introductory labs, analog circuit labs and advanced analog circuits labs.
- Teaching assistant in pre-exams concentrated teaching sessions.
- Teaching advanced math to high school students under “Kidumatica for Youth” project at the Ben Gurion University.

Military Service:

2006 - 2009) Network Administrator in the Air Force

- In charge of communication and control systems of a military base.
- Certified in multiple Microsoft server courses.
- Serving in the army reserves as a Sergeant First Class.

Languages:

Hebrew – Native tongue

English – High Level

Spanish – Native tongue