

Short CV

Liora Shaltiel- Harpaz

2015

**Higher Education**

1988-1992 B.Sc. (Suma cum Laude) Biology, University of Haifa, Haifa, Israel.

1992-1994 M.Sc. (Cum Laude) Life Sciences with specialization in Ecology, Ben-Gurion University of the Negev, Beer-Sheva, Israel.

1996-2002 Ph.D. studies, Entomology, The Hebrew University of Jerusalem, Jerusalem, Israel. (Thesis approved June 2003).

2005- 2008 Post-Doc, The Hebrew University's Faculty of Agricultural, Food and Environmental Quality Sciences. Rehovot Israel.

**Additional Education, Training and professional certificates**

1986-1987 Professional gardening training course. The ministry of employment. Israel

1988-1992 Biology high school teachers Degree. University of Haifa, Haifa, Israel.

**Appointments at academic institutions**

2004-2007 External teacher at Tel- Hai Academic College

2008 to date Lecturer and sinure faculty member at Tel- Hai Academic College

**Administrative positions in academic institutions**

2012 to date Head off Ecology unit in the Department of Environmental Science  
Tel- Hai Academic College

**Positions in non academic & research Institutions**

2006 to date Researcher at the MIGAL Northern R&D plant protection unit

**Current research**

- Development of decision making tools for IPM of *Tuta absoluta* in open field tomatoes.
- The use of resistant pear trees in order to control pear psylla
- Monitoring biodiversity in agricultural ecosystems- Crop fields
- Reduction of *Rhizoglyphus robini* damage to onion and garlic by implementing compost for the suppression of *Fusarium oxysporum*.
- Development of Economic injury level of cereal aphids in wheat to prevent crop damage

**Selected publications**

- Shaltiel, L.** and Ayal, Y. 1998. The use of kairomones for foraging decisions at two hierarchical scales by an aphid parasitoid: Foraging in small host aggregations. *Ecological Entomology* 23:319-329.
- Shaltiel, L.** and Coll, M. 2004. Reduction of pear psylla damage by *Anthocoris nemoralis*: The importance of orchard colonization time and neighboring vegetation. *Biocontrol Science and Technology* 8:811-821.
- Ne'eman, G., Shavit, O., Shmida, A. **and Shaltiel, L.** 2006. Foraging by male and female solitary bees with implications for pollination. *Journal of Insect Behavior* 19:383-401
- Shaltiel-Harpaz L.,** Kedoshim R., Openhiem D., Stern R. And M. Coll. 2010. Effect of host plant makeup through nitrogen fertilization and growth regulators on the pear psylla population. *Israel Journal of Plant Sciences* 58:143-148.
- Gophen M. **and Shaltiel L.** 2012 Record of the alien species *Craspedacusta sowerbii* Lankester, 1880 (Cnidaria: Limnomedusae) *BioInvasions Records* 1: 29-31
- Shaltiel-Harpaz, L.,** Soroker, V., Kedoshim, R., Hason, R., Sokalsky, T., Hatib, K., ... & Holland, D. (2014). Two pear accessions evaluated for susceptibility to pear psylla *Cacopsylla bidens* (Šulc) in Israel. *Pest management science*, 70(2), 234-239.
- Zappalà L., Biondi A, Chailleux A., **Shaltiel-Harpaz L** Gerling D., Stavrinides M., Madadi H., Guenaoui Y., Chermiti B., El Arnaouty A., J. Al-Jboory I. J., Bayram A., Alma A., Desneux N. 2013 Western Palaearctic natural enemies of the Neotropical moth, *Tuta absoluta*, and their potential for use in pest control strategies. *Journal of Pest Science*, 86(4), 635-647
- Rozenberg, T., **Shaltiel-Harpaz, L.,** & Coll, M. (2015). Visualizing eggs of *Nesidiocoris tenuis* (Heteroptera: Miridae) embedded in tomato plant tissues. *Entomological Science*.

**Research Grants***Current*

2015-2017 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture)  
Suppression of the soil borne pathogen *Fusarium oxysporum* and mite *Rhizoglyphus robini* in Onion and Garlic using environmentally friendly measures. PI

2015-2018 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture).  
Processing of agricultural plant waste, using the black soldier fly, for receiving compost and protein-rich animal feed.

2014-2015 JNF

2012-2014 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture).  
Development of decision making tools for IPM of *Tuta absoluta* in open field tomatoes. PI.

2013-2015 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture). The use of resistant pear trees in order to control pear psylla. CI .

2014-2016 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture).  
Monitoring biodiversity in agricultural ecosystems- Crop fields CI

2013-2015 Shaham fund of the Israeli Ministry of agriculture. Development of Economic injury level of cereal aphids in wheat to prevent crop damage CI

*Concluded*

1998-2001 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture): IPM of Pear Psylla in Israel. PI.

2004-2006 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture):  
Development of integrated management control of Thrips in chives.PI

2007-2009 ICSF (Israel Chief Scientist Foundation of the Ministry of agriculture  
Localization of potential trap plants for organic crop pests- *Aphis gossypii* Golver as a model pest. CI.

2009-2011 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture): Alternative means to control the pear psylla *Cacopsylla bidens* (Sulc). PI

2009-2011 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture):

The mechanisms underlying the population breakout of the pink bollworm in cotton and the development of integrated new approaches for its control CI.

ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture). Biofumigation as a mean to produce pest free herbs PI

2010-2011 Israeli vegetable board. IPM of Tuta absoluta in open field tomato crops.

2010-2012 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture). Biofumigation and seedlings pre planting treatments as means to produce pest free vegetables in a reduced pesticides management. PI

2011-2013 ICSF (Israel Chief Scientist Foundation of the Ministry of Agriculture). Improving Cotton Profitability Using a Multi-Disciplinary Approach CI.

### **Other Research Grants**

#### *Concluded*

1996-1997 Fruit Board of Israel: Integrated pest management of *Edwardsiana rosae* in pome orchards using the egg parasitoid *Anagrus atomus*. PI

2006-2009 The Israeli fruit growers association- national psylla project: (a) The impact of pear tree nitrogen fertilization and growth regulation on the pear psylla,

2006-2008 The Israeli ground nut growers association. Control of *Euborellia Annulipis* in ground nuts fields in the Hula valley. PI

2006-2007 The Israeli Ministry of agriculture . IPM project in the hula valley PI

**Awards and Scholarships**

- 1992-1994 Recipient of the Licht Scholarship to support master studies at the Blaustein international Center for Desert Research, Ben Gurion University of the Negev.
- 1994 (Aug) Recipient of the Miterany Foundation Grant to attend the 5th European Congress of Entomology. York, England.
- 1996 Recipient of the Zalmam Levit Scholarship to support agricultural research. Fruit Board and farmers association of Israel.
- 1997 (Oct) Recipient of the Northern R&D of Israel Travel Grant to the USA for professional training in IPM.
- 1999 (Jan) Recipient of the David Rosen award, The Hebrew University of Jerusalem.
- 1998-2001 Recipient of the PhD Scholarship, The Hebrew University of Jerusalem.
- 1998-2001 Recipient of the Leaders in Agriculture Scholarship, Fruit Board of Israel.
- 2003 Recipient of the BARD postdoctoral Scholarship (declined)

**Teaching at Academic institutions**

2006-present, Tel Hai academic collage-departments of biotechnology and of environmental studies:

- Biological control Agriculture and environment \*
- Projects in environmental studies.\*
- Ecological methodology\*
- First research Seminar in environmental studies\*.
- Pests in agriculture\*
- Workshop of applied ecology
- Environmental issues -events and meetings

\*are taught at 2013-2014 academic year

**Supervision of Master's degree students**

Mati Metzuyanım - MSc Student Tel Hai academic collage. Thesis title: "Resistance induction in pear against pear psylla *Cacopsylla bidens* by the growth inhibitor Regalis". Guidance with Prof Martin Goldway- Migal. Graduated 2013.

Michal Exelrod - MSc Student at the Hebrew University. Thesis title: "Manipulating Crop Management to Reduce Pink Bollworm Infestation and Damage in Cotton" Guidance with Prof. Yehosua Saranga - Hebrew University. Graduated 2015.

Benyaho Cohen- MSc Student, Tel Hai Academic College. Thesis title: "Determination of economic injury levels of *Tuta absoluta* in processing tomatoes and investigation of the molecular basis of the plant defense against this pest". Guidance with Prof. Martin Goldway -Migal. In progress.

Tamir Rosenberg - MSc Student at the Hebrew University. Thesis title: "Interactions between *Tuta absoluta* and its omnivorous predator *Nesidiocoris tenuis* on wild and commercial tomato genotypes".guidance with Prof Moshe Coll - Hebrew University. In progress.

Dor Rachmani - MSc Student at Tel Hai Academic College. Thesis title: "Interrelation between graft and scion with respect to reduced susceptibility to pear psylla *Cacopsylla bidens* in pear trees". Guidance with Dr. Doron Holand and Dr. Mwafaq Ibdah- ARO. In progress.

Tzlil Shitrit- MSc Student at Tel Hai Academic College. Thesis title: "Study of the natural enemy fauna of the water lettuce *Pistia stratiotes* in Israel". Guidance with Dr. Elad Chiel - Haifa University. In Progress.