

## Part I: CURRICULUM VITAE

### 1. Personal

Department of Natural Resources, Agricultural Research Organization (Volcani Center)

E-mail: [hilasegre@gmail.com](mailto:hilasegre@gmail.com), [hilas@volcani.agri.gov.il](mailto:hilas@volcani.agri.gov.il)

Personal web-site: <https://www.researchgate.net/profile/Hila-Segre>

Google Scholar web-site: <https://scholar.google.co.il/citations?hl=iw&pli=1&user=PbGM1z8AAAAJ>

Dates	Description
1981	Born in Israel

### 2. University Education and Additional Training

Dates	Description
2007 – 2010	B.Sc. in biology at the Institute of Life Sciences, The Hebrew University of Jerusalem, Israel.
2010 – 2013	M.Sc. in ecology at the Department of Ecology, Evolution and Behavior, Institute of Life Sciences, The Hebrew University of Jerusalem, Israel. Title of thesis: <i>Effects of cattle grazing on herbaceous species diversity in a dry-Mediterranean rangeland.</i> Supervision by: Prof. Ronen Kadmon and Dr. Zalmen Henkin
2015 – 2019	Ph.D. in environmental studies at the Faculty of Architecture and Town Planning, Technion – Israel Institute of Technology, Israel. Title of thesis: <i>Modeling alternatives for planning and management of ecological corridors in agricultural environments.</i> Supervision by: Dr. Assaf Shwartz and Prof. Yohay Carmel
2019 – 2020	Postdoctoral position at the Department of Natural Resources, Agricultural Research Organization (Volcani Center) and the Department of Entomology, The Hebrew University of Jerusalem, Israel, with Dr. Asaf Sadeh and Prof. Moshe Coll Research subject: <i>The relationship between arthropod pest diversity, induced phytochemical diversity, and natural enemies in vegetable crops.</i>
2020 – 2022	Postdoctoral position at the Plant Ecology and Nature Conservation group, Wageningen University and Research, Netherlands, with Prof. David Kleijn Research subject: <i>SHOWCASing synergies between agriculture, biodiversity and Ecosystem services to help farmers capitalising on native biodiversity</i> ( <a href="https://showcase-project.eu/">https://showcase-project.eu/</a> ), <i>Open library of pollinator Biodiversity and ecosystem Services scenarios</i> ( <a href="https://www.beeproject.science/observ.html">https://www.beeproject.science/observ.html</a> ).

### 3. Positions Held and Academic Status

Dates	Description
2022	Research Scientist at the ARO, The Volcani Center, Institute of Plant Sciences, Dept. of Plant Resources

#### 4. Teaching Experience / Guiding Students

B. Guidance of M.Sc. Students (or B. Sci. internship):

<b>Graduation date</b>	<b>Name</b>	<b>Title of thesis</b>	<b>Guidance with</b>
2021	*Mr. Zhang Rongqian	<i>Effects of biodiversity interventions on pest control services</i>	Prof. David Kleijn
2022	*Ms. Kiki de Waart	<i>Effect of structural and floral resources in the vegetation of agri-environmental measures on species richness and functional traits in communities of bees, hoverflies and spiders</i>	Dr. Thijs Fijen
2022	*Ms. Inge Bach (B.Sci.)	<i>The effect of Semi-natural habitats (SNH) on the body size of hoverflies in agricultural lands</i>	Dr. Thijs Fijen

\*under my direct supervision

#### 5. Activity in Scientific and Agricultural Committees

B. National:

<b>Dates</b>	<b>Description and role</b>
2016-2019	Environmental farming experts' forum (Deshe institute and The Israel Society of Ecology and Environmental Sciences); Member

#### 6. Contribution to the Scientific Community

D. Outreach:

<b>Dates</b>	<b>Description</b>
2017	Contributed popular science article <a href="http://www.kalanit.org.il/grazing-herbs/">http://www.kalanit.org.il/grazing-herbs/</a> (Hebrew)
2020	Participating in the Youth Activities ("Noar Shochoer Mada")

E. Editorial responsibilities:

<b>Dates</b>	<b>Description</b>
2020-2021	Reviewer (ad-hoc) of manuscripts for: Journal of Applied Ecology, Agriculture, Ecosystems & Environment, Functional Ecology, Landscape Ecology, Annals of Applied Biology.

## 7. Active Participation in Meetings

### A. International:

<b>Date</b>	<b>Title of the Meeting</b>	<b>Place</b>	<b>Role</b>
2017	World Conference on Ecological Restoration	Iguassu, Brazil	Lecture
2018	European Congress of Conservation Biology	Jyväskylä, Finland	Lecture
2019	International Association of Landscape Ecology (IALE) World Congress	Milan, Italy	Lecture
2022	European Congress of Conservation Biology	Prague, Czech Republic	Lecture

### B. National:

<b>Date</b>	<b>Title of the Meeting</b>	<b>Role</b>
2012	The annual conference of the Israeli Society of Ecology and Environmental Sciences	Lecture
2014	The Israeli Association for Rangeland Sciences annual conference	Lecture
2016	Israeli Plant ecology conference	Lecture
2016	Annual conference of the Israeli Society of Ecology and Environmental Sciences	Lecture
2017	Israeli Conference for Conservation Science	Lecture
2017	Annual seminar of Nekudat-Hen foundation	Lecture
2018	Agricultural Extension Service (Ministry of Agriculture) winter seminar for farmers	Invited lecture
2018	The Annual Conference for Science and the Environment	Invited lecture
2018	The annual conference of the Israel Society of Crop and Vegetable Sciences	Invited lecture
2018	Israel Zoological Society annual conference	Lecture
2019	Israeli Conference for Conservation Science	Lecture
2019	6 <sup>th</sup> Forum on Parasitoids	Invited lecture
2020	Department of Plant and Environmental Sciences, Weizmann Institute of Science	Invited lecture
2021	Department of Entomology, the Hebrew University of Jerusalem	Invited lecture
2022	Mathematical Modelling of Biological Control research group seminar	Invited lecture

## 8. Research Grants

### A. Internationally Peer Reviewed Grants:

Year	Granting Source	Duration (years)	Role*	Title (short)	Budget	
					Total (US \$ / year)	Researcher (US \$ / year)
2020	BARD Vaadia Postdoctoral Fellowship	1	PI	Effects of crop diversification on pest control services at multiple scales	40,000	40,000
Awarded and declined due to competing postdoc offer at Wageningen University						

\*PI = Principal Investigator; CI = Cooperating Investigator

### B. Nationally Peer Reviewed Grants:

Year	Granting Source	Duration (years)	Role*	Title (short)	Budget	
					Total (US \$ / year)	Researcher (US \$ / year)
2017	Chief Sci.	1	CI	Fields and fields' margins: mutual ecological effects and economic implications of different management and planning options	43,500	20,000

\*PI = Principal Investigator; CI = Cooperating Investigator

### C. National Non-Peer Reviewed Grants:

Year	Granting Source	Duration (years)	Role*	Title (short)	Budget	
					Total (US \$ / year)	Researcher (US \$ / year)
2016	Nekudat Hen	1	Lead author	Cost-benefit of natural field margins in the Harod valley	22,500	22,500

\*PI = Principal Investigator; CI = Cooperating Investigator

## 9. Awards

<b>Dates</b>	<b>Description</b>
2018	Best lecture award (2 <sup>nd</sup> place), Israel Zoological Society, December 2018
2018	Azrieli Foundation travel grant to the World Conference on Ecological Restoration (Iguassu, Brazil)
2019	'People & Nature' award for best presentation on human-nature interactions, Israeli Conference for Conservation Science, April 2019
2019	Israel Zoological Society travel grant to the International Association of Landscape Ecology (IALE) World Congress (Milan, Italy)
2019	Workshop for young women leaders in science with HFP-Consulting, hosted by the Technion
2020	Shortlisted for Shouthwood prize for best paper by an early career researcher. <i>Journal of Applied Ecology</i> special virtual issue covering my work: <a href="https://besjournals.onlinelibrary.wiley.com/doi/toc/10.1111/(ISSN)1365-2664.Southwood_Prize_2020">https://besjournals.onlinelibrary.wiley.com/doi/toc/10.1111/(ISSN)1365-2664.Southwood_Prize_2020</a>

## Part II: LIST OF PUBLICATIONS

<u>Marks:</u>	
X*	Equal contribution as the first author
X**	Corresponding Author ( <i>in cases where the researcher is the Corresponding Author</i> )

### 1. Articles in Reviewed Journals

1. **Segre, H.**, Ron, R., De Malach, N., Henkin, Z., Mandel, M., & Kadmon, R. (2014).  
Competitive exclusion, beta diversity, and deterministic vs. stochastic drivers of community assembly.  
*Ecology Letters*, 17(11), 1400–1408. doi:10.1111/ele.12343  
IF 10.68; Category: *Ecology*; Rank 2/145 (Q1)
  
2. **Segre, H.\***, DeMalach, N.\*, Henkin, Z., & Kadmon, R. (2016).  
Competitive Exclusion and Competitive Release in Ecological Communities: A Conceptual Framework  
and a Case Study.  
*PLoS ONE*, 11(8), e0160798. doi:10.1371/journal.pone.0160798  
IF 2.80; Category: *Multidisciplinary sciences*; Rank 15/64 (Q1)
  
3. **Segre, H.\*\***, Carmel, Y., Segoli, M., Tchetchik, A., Renan, I., Perevolotsky, A., Dotan, R., & Shwartz, A.  
(2019).  
Cost-effectiveness of uncultivated field-margins and semi-natural patches in Mediterranean areas: A  
multi-taxa, landscape scale approach.  
*Biological Conservation*, 240, 108262. doi: 10.1016/j.biocon.2019.108262  
IF 4.45; Category: *Ecology*; Rank 22/165 (Q1)
  
4. **Segre, H.\*\***, Segoli, M., Carmel, Y., & Shwartz, A. (2020).  
Experimental evidence of multiple ecosystem services and disservices provided by ecological  
intensification in Mediterranean agro-ecosystems.  
*Journal of Applied Ecology*, 57(10), 2041–2053. doi:10.1111/1365-2664.13713  
IF 5.78; Category: *Ecology*; Rank 14/165 (Q1)
  
5. **Segre, H.\*\***, Carmel, Y., & Shwartz, A. (2021).  
Economic and not ecological variables shape the sparing-sharing trade-off.  
*Journal of Applied Ecology*, 59(3), 779-790, doi:10.1111/1365-2664.14092  
IF 6.86; Category: *Ecology*; Rank 17/174 (Q1)
  
6. Raatikainen, K., Purhonen, J., Pohjanmies, T., Peura, M., Nieminen, E., Mustajärvi, L., Helle, I., Damiens,  
F., Shennan-Farpon, Y., Ahti, P., Basile, M., Bernardo, N., Bertram, M., Bouarakia, O., Brias-Guinart,  
A., Fijen, T., Froidevaux, J., Hemmingmoore, H., Hemmingmoore, S., Kendall, L., Lampinen, L.,  
Marjakangas, E., Martin, J., Oomen, R., **Segre, H.**, Sidemo-Holm, W., Silva, A., Thorbjørnsen, S.,  
Torrents-Ticó, M., Zhang, D., Ziemacki, J. (2021).  
Pathways towards a sustainable future envisioned by early-career conservation researchers.  
*Conservation Science and Practice*, 3(9), 1-15, doi: 10.1111/csp2.493  
IF 3.57; Category: *Biodiversity Conservation*; Rank 18/65 (Q2)
  
7. Teff-Seker, Y., **Segre, H.**, Eisenberg, E., Orenstein, D.E., & Shwartz, A. (2022).  
What Makes a Scheme? Practical and conceptual factors for implementing agri-environmental practices.  
*Journal of Environmental Management*, 302(PA), 114066. doi: 10.1016/j.jenvman.2021.114066  
IF 8.91; Category: *Environmental Sciences*; Rank 34/279 (Q1)

## 2. Books, Reviews and Opinion Articles

## 3. Book Chapters

## 4. Articles in Reviewed Journals in Hebrew

## 5. Articles in Non-Reviewed Journals in Hebrew and English

1. Brokovich, E., Avisar, A., Adler, U., Adler, D., Ohad, N., Ulanovsky, H., Oron, E., Oren, M., Etinger, E., Elyakim, I., Amdur, L., Endvelt, R., Epel, B., Berry, E., Ben-Hur, M., Ben Haim, U., Braun, Y., Berman, T., Gabay, E., Gavrieli, Y., Gutman, J., Goldstein, A., Dayan, T., Dean, L., Distelfeld, A., Ziv, Y., Haikin, T., Trakhtenbrot, A., Caspi Oron, S., Levine, H., Mayor, S., Miller, H., Mandelik, Y., Manor, S., **Segre, H.**, Skutelsky, O., Perez, S., Chehanovsky, N., Cukierman, G., Kissinger, M., Kachan, A., Rothschild, A., Rotem, D., Ramon, U., Shaltiel Harpaz, L., Sagi, Y., Sagi, H., Schwartz, A., Steinberger, Y., Steiner, N., Shalev Koernblit, D., Shalem, E., Shepon, A., & Shapira, I. (2016). Combining objectives and indices for sustainable agriculture in the frame of direct supports to agriculture. Experts' opinion.  
*The Israel Society of Ecology and Environmental Sciences*. pp 52. Available from <http://www.isees.org.il/committee/sustainable-agriculture/>. (Hebrew)
2. Gil, H., Ziv, Y., Rotem, G., Ramon, U., Mandelik, Y., **Segre, H.**, Keasar, T., Rotem, D., Shelef, O., Shapira, I., & Levi, A. (2020). Wildlife friendly agricultural practices - Natural habitat patches and field margins – Experts' opinion.  
*The Israel Society of Ecology and Environmental Sciences*. pp 30. Available from <https://www.isees.org.il/committee/>. (Hebrew)

## 6. Articles in Symposia Proceedings (including Acta Horticulturae)

## 7. Granted Patents and Registered Cultivars