

# *Curriculum Vitae*

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## **EDUCATION**

**PhD in Entomology;** University of Tehran; Dissertation: “The Effect of Insect Parasitic Nematode *Strelkovimermis spiculatus* (Nematoda: Mermithidae) on Behavioral Alteration of the Mosquito Host, *Culex pipiens*”.GPA: A+ (18.58 out of 20)

**MS in Entomology;** University of Tehran; Thesis: “Virulence of Iranian isolates of *Beauveria bassiana* to *Eurygaster integriceps* and development of biphasic culture method for the selected isolate”.Honor student, GPA: A+ (18.47 out of 20)

**BS in Plant Protection;** University of Tehran, Top student, GPA: A (17.57 out of 20)

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## **RESEARCH INTERESTS**

1. Insect Parasitic Nematodes
  2. Entomopathogenic Fungi
  3. Mosquito Vector Control
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## **EMPLOYMENT**

-Full-time Research Entomologist; Faculty member of Iranian Research Institute of Plant Protection, Tehran, Iran

-Research Coadjutant; Center for Vector Biology, Rutgers University, USA

-Part-time Research Assistant of Sunn pest microbial control project, Sunn pest Research Department, Iranian Research Institute of Plant Protection, Tehran, Iran

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## HONORS

- Ranked first in Nationwide Entrance Exam for PhD program in Entomology
  - Ranked first in Nationwide Entrance Exam for MS program in Entomology
  - Ranked top student in undergraduate class
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## SELECTED PUBLICATIONS

### Papers:

**Haji Allahverdipour, H., & Marzban, R.** 2023. Efficacy assessment of the nematode *Steinernema carpocapsae* and the bacterium *Bacillus thuringiensis* in control of Elm Leaf Beetle, (*Xanthogaleruca luteola*) under laboratory conditions. *Plant Protection*, 46(1), 25-37

**Haji Allahverdipour, H., & Karimi, J.** 2021. Nematodes versus white grubs: Long but challenging association. *Annals of Entomological Society of America*, 114(4), 448-458

**Haji Allahverdipour, H.,** Talaei-Hassanloui, R., Karimi, J., Wang, Y., Rochlin, I., & Gaugler, R. 2019. Behavior manipulation of *Culex pipiens pipiens* by the mosquito-parasitic mermithid *Strelkovimermis spiculatus*. *Journal of Invertebrate Pathology*, 168(9), 107273

**Haji Allahverdipour, H.,** Bagheri Matin, S., & Ghazavi, M. 2019. Bioecology of the wheat chafers *Miltotrogus caucasicus* and *Tanyproctus ganglbaueri* in the western Iran. *Journal of Plant Protection*, 42, 19-31

**Haji Allahverdipour, H.,** Talaei-Hassanloui, R., Karimi Bareng, J., Wang, Y., & Gaugler, R. 2017. Production of *Culex pipiens* (Dip.: Culicidae) adults infected by *Strelkovimermis spiculatus* (Nematoda: Mermithidae) in autodissemination control strategy. *Journal of Entomological Society of Iran*, 37, 125-134

**Haji Allahverdipour, H.** 2013. Entomopathogenic fungi: An alternative in control of the Asian Citrus Psyllid, *Diaphorina citri* (Hemiptera: Psyllidae)? *Plant Protection Journal*, 4, 1-9

**Haji Allahverdipour, H., & Ghazavi, M.** 2012. The effect of entomopathogenic fungi on

Corn Ground Beetle under laboratory conditions. *Journal of Entomological Research*, 173-182

**Haji Allahverdipour, H.,** Ghazavi, M., & Kharazi Pakdel, A. 2008. Comparison of the virulence of Iranian isolates of *Beauveria bassiana* to *Eurygaster integriceps* (Hem.: Scutelleridae) and production of the selected isolate. *Journal of Entomological Society of Iran*, 28, 13-26

#### **Chapter:**

**Haji Allahverdipour, H. &** Akbarzadeh K. 2021. Biocontrol for Arthropods of Medical and Veterinary Importance in Iran. In: Karimi, J., Madadi, H. (eds) *Biological Control of Insect and Mite Pests in Iran*. Progress in Biological Control, vol 18. Springer Nature Switzerland, Cham. [https://doi.org/10.1007/978-3-030-63990-7\\_16](https://doi.org/10.1007/978-3-030-63990-7_16)

**Haji Allahverdipour, H.** 2008. Pistachio Pests Strategic Research Plan. In: Askary, H., Hasani moghaddam, M. (eds) *Planning and Strategic Framework for Developing Plant Protection Research in Iran* (pp. 371-375). Iranian Research Institute of Plant Protection Publishing,. ISBN. 978-964-91366-7-7 [In Persian]

#### **Abstracts:**

**Haji Allahverdipour, H., &** Sheikhi Garjan, A. 2019. Efficacy of Larvanem® (*Heterorhabditis bacteriophora*) on the white grub, *Polyphylla olivieri* under semi-field conditions. 3rd Iranian International Congress of Entomology, Tabriz, Iran

**Haji Allahverdipour, H.,** Wang, Y., Talaei-Hassanloui, R., Karimi Bareng, J., & Gaugler, R. 2018. The effect of insect parasitic nematode, *Strelkovimermis spiculatus* on behavioral alteration of the mosquito host *Culex pipiens*. 23<sup>rd</sup> Iranian Plant Protection Congress, Gorgan, Iran

**Haji Allahverdipour, H., &** Mahmoodan, S. 2017. Report of *Gordius* sp. (Nematomorpha: Gordiidae) and behavioral modification in the tettigoniid host. 8<sup>th</sup> National Conference on

Biological Control, Rasht, Iran

**Haji Allahverdipour, H.,** Talaei-Hassanloui, R., Karimi Bareng, J., Wang, Y., & Gaugler, R. 2017. Production of *Culex pipiens* (Dip.: Culicidae) adults infected by *Strelkovimermis spiculatus* (Nematoda: Mermithidae) in autodissemination control strategy. 2<sup>nd</sup> Iranian International Congress of Entomology, Karaj, Iran

**Haji Allahverdipour, H.,** Wang, Y., Talaei-Hassanloui, R., Karimi Bareng, J., & Gaugler, R. 2016. Studies on host behavior manipulation by the mosquito-parasitic nematode, *Strelkovimermis spiculatus*. XXV International Congress of Entomology (ICE), USA

Ghazavi, M., Bagheri Matin, S., & **Haji Allahverdipour, H.** 2016. New record of *Hirsutella* Pat. from Iran. 22<sup>nd</sup> Iranian Plant Protection Congress

**Haji Allahverdipour, H.** 2014. Study the Population changes of wheat chafers for timing of control. 3<sup>rd</sup> Integrated Pest Management Conference (IPMC), Iran

**Haji Allahverdipour, H.** 2012. Entomopathogenic fungi: An alternative in control of the Asian Citrus Psyllid, *Diaphorina citri* (Hemiptera: Psyllidae)? XXIV International Congress of Entomology, South Korea

**Haji Allahverdipour, H.** 2011. Microbial control potential of entomopathogenic fungi against *Zabrus tenebrioides* (Col. Carabidae). Global Conference on Entomology, Thailand

**Haji Allahverdipour, H.,** Ghazavi, M., & Kharazi Pakdel, A. 2006. An investigation into the laboratory scale production of the Iranian isolates of *Beauveria bassiana* (Bal.) Vuill. 17<sup>th</sup> Iranian Plant Protection Congress

Ghazavi, M., & **Haji Allahverdipour, H.** 2004. First report of entomopathogenic fungus

*Beauveria brongniartii* (Sacc.) Petch from Iran. 16<sup>th</sup> Iranian Plant Protection Congress.

**Guidelines:**

**Haji Allahverdipour, H.** 2010. IPM of wheat and barley pests. Tehran. Agri-Jahad, ISBN: 39674 [In Persian]

**Haji Allahverdipour, H.** 2008. Technical guidelines for control of wheat pests. In Agricultural Research, Education & Extension Organization Researchers, (Eds.), *Technical guidelines for agricultural products*. ASIDC Press, ISBN: 87/250 [In Persian]

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**SELECTED RESEARCH PROJECTS**

**Principal investigator** of the following projects:

- An investigation into the use of native entomopathogenic nematodes for control of western flower thrips, *Frankliniella occidentalis* in greenhouses - funded by Iranian Research Institute of Plant Protection
  
- Liquid production of an Iranian isolate of entomopathogenic nematode *Steinernema carpocapsae* - funded by Iranian Research Institute of Plant Protection
  
- The effect of *Heterorhabditis bacteriophora* (Larvanem®) for control of the white grub, *Polyphylla olivieri* (Cast., 1840) in orchards - funded by Gyah Corp
  
- Study the population changes of wheat chafers (Scarabaeidae) and occurrence of their natural enemies - funded by Iranian Research Institute of Plant Protection
  
- Investigation into the microbial control potential of entomopathogenic fungi against Cereal Ground Beetle, *Zabrus tenebrioides* (Carabidae) - funded by Iranian Research Institute of Plant Protection

- Investigation on the possibility of biological control of Asian Citrus Psyllid, *Diaphorina citri* (Psyllidae) in Iran - funded by Iranian Research Institute of Plant Protection

**Coadjutant** in these projects:

- Targeting the larval breeding sites of Zika vector with zombie mosquitoes infected with mermithid and carrying insect growth regulator - Rutgers Research Council Grant Award

- Autodissemination Station to decrease the population of mosquitoes that transmit diseases to humans - funded by NIH

- Evaluation of the efficacy of a commercial product of entomopathogenic nematode, *Steinernema feltiae*, on Potato Tuber Moth, *Phthorimaea operculella* Zeller (Lep.: Gelechiidae) - funded by Gyah Corp

- Efficacy of two entomopathogenic fungi specific for Lepidoptera on Tomato Leafminer, *Tuta absoluta* (Glechidae) - funded by Iranian Research Institute of Plant Protection

- Timing of reduced-risk insecticides for Cereal Ground Beetle *Zabrus tenebrioides* Goeze (Carabidae) - funded by Iranian Research Institute of Plant Protection

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## **RESEARCH MENTORING**

-Supervisor of Master's Degree project of Ashraf Fatemi- "Biological control of the white grab, *Polyphylla adspersa* using nematodes *Steinernema carpocapsae*, *Heterorhabditis bacteriophora*

-Co-adviser of Master's Degree project of Aida Sedighi- "Effect of Iranian isolates of *Beauveria bassiana* (Bals.) Vuill. on the bird cherry-oat aphid, *Rhopalosiphum padi* (Aphididae) under laboratory conditions"

-External Examiner of Master's Degree project of Najmeh Nikpour - "Study the effect of some *Metarhizium anisopliae* and *Beauveria bassiana* isolates on *Thrips tabaci* Lind (Thysanoptera: Thripidae)"

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