Curriculum Vita

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Education

Ph.D. in Entomology, [Thesis title: Investigating wheat aphids and factors affecting their population dynamics in Varamin region].

MSc. in Entomology, [Thesis title: Mass rearing and quality control of *Trissolcus grandis* egg parasitoid using *Graphosoma lineatum* (Hem.: Pentatomidae)].

BSc. in Plant Protection

Experience

2022-present: Vice President (Deputy of Research), Iranian Research Institute of Plant Protection

1996-2022: Head of Sunn pest Research Department, Iranian Research Institute of Plant Protection

1996-2022: Head of Working Group on Agricultural Pests Research, Research committee, Iranian Research Institute of Plant Protection

1995-1996: Deputy of Sunn pest Research Department, Iranian Research Institute of Plant Protection

1986-present: Faculty member of Iranian Research Institute of Plant Protection as researcher.

Research Projects

1.Bioecology of aphids in barley fields of Esfahan, Golestan, Kermanshah and Lorestan provinces

2.Efficiency of Deltamethrin insecticide of Iranian companies under different trade marks on sunn pest, Eurygaster integriceps in wheat fields

3.Efficiency of Decis EC100 on sunn pest, Eurygaster integriceps in wheat fields

4.Evaluation of the effect of Lambda cyhalothrin (Largin CS 25) and Etofen prox (Terebon EC 30) on sunn pest, Eurygaster integriceps Puton

5.Ruduced dosages application of Deltamethrin insecticide (EC 2.5%, and SC 2.5%) to control sunn pest Eurygaster integriceps Puton in wheat fields of few provinces in Iran.

6.Supplementary evaluation of the effect of Deltamethrin insecticide of different companies on sunn pest, Eurygaster integriceps Puton (Hem.: Scutelleridae)

7.Efficiency of two new insecticides of Jayamplus (SC 4.9%) and Lamathrin (CS 10%) to control sunn pest, Eurygaster integriceps (Hem.: Scutelleridae)

8.Investigating the possibility of increasing the acceptable percentage of damaged kernels by sunn pest in new bread wheat cultivars in the country

9. Diversifying pesticide basket for control of sunn pest, Eurygaster integriceps Puton (Hem.: Scutelleridae)

10. Integrated management of cucumber greenhouse pests based on using domestically produced biological control agents

11.Estimation temperature indices for development of the most important wheat and barley aphids (Hemiptera: Aphididae) using linear and non-linear models

12.The influence of temperature on the toxicity of deltamethrin on sunn pest, Eurygaster integriceps

13. The efficiency of combined effect of agricultural and chemical methods to reduce the population and damage rate of false chinch bug Nysius cymoides(Spinola) (Heteroptera: Lygaeidae) on canola in West Azarbaijan,Hamadan, Kermanshah and Lorestan provinces.

14. Population fluctuations of Orosanga japonicus Melichar, host plants and attraction to traps in the west of Mazandaran province

15. Evaluation of Thermotolerance and Molecular Identification of Beauveria bassiana (Hypocreales) from overwintering sites of sunn pest in Iran

16. Synthesis and field evaluation of buthyl isothiocyanate ethyl on attraction of Nysius cymoides

17. Development of microencapsulated formulation of Beauveria bassiana to control Sunn Pest, Eurygaster integriceps Puton (Hemiptera:Scutelleridae)

18. Controlling cabbage aphid, Brevicoryne brassicae, using biological control agent and botanicals in canola crop

19. Investigation on biology of Dolycoris penicillatus (Hem.: Pentatomidae) under laboratory and field conditions.

20. Evaluation of spraying Drone in chemical control of sunn pest nymphs

21. Evaluation of suspension concentrate formulation of a native strain of Bacillus thuringiensis in controlling the population of Lepidopteran soybean pests in Dashtenaz

22. Efficiency evaluation of Aphidend (Aphidoletes aphidimyza) to control Cotton aphid, Aphis gossypii on greenhouse cucumber

23.The effect of Ghita deltamethrin insecticide (deltamethrin SC5%) on Sunn pest, Eurygaster integriceps Puton in field condition

24. Efficiency of Persana insecticide (Esfenvalerate EC 2.5%) to control aphids in wheat fields

25. Agricultural pest management (control of weeds and flood irrigation) of rape seed borer

26. Isolation of Sunn Pest-related Entomopathogenic Nematodes and evaluation of their pathogenicity against it in Iran

27. Control of date palm borers, Oryctes spp. (Coleoptera: Scarabaeidae) , Jebusaea hammerschmidti (Reiche) (Coleoptera: Cerambycidae)کنترل

28. Biological control of aphids in cucumber greenhouses using biological products Ervipar and Aphipar.

29. Identification of parasitoids of cotton aphids and investigation of their efficiency and population changes.

30. Investigating population fluctuation of wheat aphid parasitoids.

31. Biological control of codling moth based on degree day model in Maragheh region.

32. Studying the effect of temperature on growth and feeding rate of ladybug Cryptolaemus montrouzieri Mulsant.

33. Empowering greenhouse farmers in the sustainable production and protection of cucumbers, tomatoes, peppers and strawberries

34. Investigating the effect of using vermicompost tea in reducing the population of vector aphids of viral disease in strawberry greenhouses.

35. Efficiency of parasitoid beesm, Bathyplectes anurus and B.curculionis on alfalfa leaf weevil population.

36. The efficiency of biological insecticide, Naturalis-L in controlling sucking pests of greenhouse vegetables.

37. Investigating the use of artificial shelter in supporting lacewings population in alfalfa in Varamin region.

Journal Articles

1. Shahrokhi Khaneghah, S., Rizvani, A., Shujaei, M., Ostovan, H. and Abdullahi, G. 2012. Investigation on population fluctuation and structure of aphids in wheat fields. Journal of Agricultural Sciences, 1: -22.

2. Shahrokhi Khaneghah, S. , Shojaei, M. and Rezvani, A. 2018. Investigating the population growth parameters of greenbug, *Schizaphis graminum* on wheat cultivars in Varamin region. Journal of the Entomological Society of Iran, 29: 45-64.

3. Shahrokhi Khaneghah, S. and Amir Maafi, M. 2012. Biology of the wingless form of rose - grain aphid, *Metopolophium dirhodum* on wheat under laboratory condition. Journal of Phytopathology and Plant Protection, 81: 43-50.

4. Shahrokhi Khaneghah, S. and Amir Maafi, M. 2013. Sequence sampling of rose – grain aphid, *Metopolophium dirhudum* (Hemiptera: Aphididae) in wheat fields. Journal of the Entomological Society of Iran, 31: 69-82.

5. Shahrokhi Khaneghah, S., and Amirmaafi, M. 2019. Binomial sampling pattern of rose – grain aphid, *Metopolophium dirhodum* (Hem.: Aphididae) in wheat fields. Journal of Phytopathology and Plant Protection, 79: 117-134.

6. Nahani, A., Shahrokhi Khaneghah, S. and Pourhaji, A. 2014. Growth parameters of tomato moth, *Tuta absoluta* (Meyrick) (Lep.: Gelechiidae) under field condition

in East Azerbaijan province. Journal of Phytopathology and Plant Protection, 83: 258-247.

7. Hosseini, S.B., Shahrokhi Khaneghah, S. and Alinia, F. 2012. The effects of *Laurus nobilis* and *Eucalyptus camaldulensis* essential oils on the aphid, *Brevicoryne brassicae*. Biological Control in Plan Protection, 1: 1-11.

8. Parsi, F. and Shahrokhi Khaneghah, S. 2016. Sequential sampling of Asian citrus psyllid, *Diaphorina citri* population (Hemiptera: Psyllidae) in citrus orchards in southern Iran. Journal of Phytopathology and Plant Protection, 84: 130-141.

9. Rajabi, S., Shahrokhi Khaneghah, S. and Iranipour, S. 2015. Sequential and binomial sampling models of aphid, *Sipha elegans* (Hemiptera: Aphididae) in wheat fields. Journal of Phytopathology and Plant Protection, 84: 354-345.

10. Mohagheg Neishabouri, J., Amirmaafi M., Shahrokhi Khaneghah, S. and Pirhadi, A. 2014. Spatial distribution of *Nysius cymoides* (Hemiptera: Lygaeidae). Journal of Phytopathology and Plant Protection, 5: 13-23.

11. Mohagheg Neishabouri, J., Amir Maafi, M., Shahrokhi Khaneghah, S. and Pirhadi, A. 2014. Sequential sampling of *Nysius cymoides* (Hem.: Lygaeidae) population. Journal of Phytopathology and Plant Protection, 83: 81-95.

12. Mousavian, S.S., Attaran, M.R., Shujaei, M. and Shahrokhi Khaneghah, S. 2018. Comparison of the flight ability of different laboratory generations of the egg parasitoid, *Trichogramma brassicae*. Journal of Phytopathology and Plant Protection, 78: 112-107.

13. Bagheri Matin, S., Shahrokhi Khanegah, S. and Starry, P. 2009. The first report of the parasitoid wasp, *Praon gallicum* Stary (Hym.: Braconidae, Aphidiinae) from Iran. Journal of Phytopathology and Plant Protection, 87: 127-128.

14. Khodabandeh, H.A. and Shahrokhi Khaneghah, S. 2017. Sequential sampling model for monitoring the population of corn leaf aphid, *Rhopalosiphum maidis* (Fitch) in sorghum fields. Crop Ecology, 14:10-1.

15. Shahrokhi Khaneghah, S., Bagheri Matin, S. and Amir Maafi, M. 2018. Spatial distribution and sequential sampling model for corn leaf aphid, *Rhopalosiphum maidis* (Hemiptera: Aphididae) in barley fields. Journal of the Entomological Society of Iran, 39: 323-311.

16. Karami, L., Amir-Maafi, M., Shahrokhi Khaneghah, S., Imani, S. and Shojai, M. 2016. Demography of the bird cherry-oat aphid, *Rhopalosiphum padi* (L.)

(Hemiptera: Aphididae) on different barley varieties. Journal of Agricultural Science and Technology, 18: 1257-1266.

17. Tofangsazi, N., Kheradmand, K., Shahrokhi Khaneghah, S. and Talebi, A. 2010. Temperature-dependent life history of greenbug, *Schizaphis graminum* on barley. Bulletin of Insectology 63 (1): 79-84.

18. Tofangsazi, N., Kheradmand, K., Shahrokhi Khaneghah, S. and Talebi, A. 2011. Demography of greenbug, *Schizaphis graminum* (Rondani) (Hemiptera: Aphididae) on six barley cultivars. Archives of Phytopathology and Plant Protection 44: 484-492.

19. Kheradmand, K., Khosravian, M., Shahrokhi Khaneghah, S. 2012. Side effects of four insecticides on demographic statistics of aphid parasitoid, *Diaeretiella rapae* (McIntosh) (Hym., Braconidae). Annals of Biological Research 34: 111-116.

20. Stary, P., Remaudiere, G., Gonzalez, D. and Shahrokhi Khaneghah, S. 2010. A review and host associations of aphid parasitoids of Iran. Parasitica 56 (1): 15-41.

Full papers published in conference proceedings

1. Rajabi, S., Shahrokhi Khaneghah, S. and Iranipour, S. 2015. Investigation of the abundance of the aphid, *Schizaphis graminum* (Rondani). The fourth National Conference on Biodiversity and its Impact on Agriculture and Environment. Research and Education Center for Agriculture and Natural Resources of West Azarbaijan Province, Urmia.

2. Rajabi, S., Shahrokhi Khaneghah, S. and Iranipour, S. 2015. Population fluctuations and spatial distribution pattern of the aphid (Hem.: Aphididae) *Metopolophium dirhodum* (Walker) in wheat fields. The fourth National Conference on Biodiversity and its Impact on Agriculture and Environment. Research and Education Center for Agriculture and Natural Resources of West Azarbaijan Province, Urmia.

3. Nouri, M., Shahrokhi Khaneghah, S. and Khodabandeh, H.A. 2015. Identifying the chemical compounds of *Allium sativum* essential oil and its effect on potato willow. *Phthorimaea operculella* Zeller (Lep.: Gelechiidae). The Second National Conference on Monitoring in Medicinal Plants. Gonbad University, Iran.

4. Nouri, M., Shahrokhi Khaneghah, S. and Khodabandeh, H.A. 2015. Sensitivity of potato willow, *Phthorimaea operculella* Zeller to essential oils of garlic, pepper, lemongrass and hyssop. The Second National Conference on Monitoring in Medicinal Plants. Gonbad University, Iran.

5. Rajabi, S., Shahrokhi Khaneghah, S. , Iranipour, S. and Khodabandeh, H.A. 2015. Sequential sampling of the aphid, *Sitobion avenae* in wheat fields. The Second National Conference on Monitoring in Medicinal Plants. Gonbad University, Iran.6.

6.Rajabi, S., Shahrokhi Khaneghah, S., Iranipour, S. and Khodabandeh, H.A. 2015. Determining the spatial distribution pattern for monitoring rice leaf aphid population in wheat fields. The Second National Conference on Monitoring in Medicinal Plants. Gonbad University, Iran.

7. Hojjati, Z., Shahrokhi Khaneghah, S. and Godbande H.A. 2014. Studying the biological characteristics of the aphid *Metopolophium dirhodum* on different wheat cultivars. Third International Congress of Biology and Ecology. Shahid Beheshti University, Tehran.

8. Hojjati, Z., Shahrokhi Khaneghah, S. and Godbande H.A. 2014. Antibiotic resistance of four wheat cultivars to rose grain aphid. Third International Congress of Biology and Ecology. Shahid Beheshti University, Tehran.

9. Babavelilo, M., Shahrokhi Khaneghah, S. and Khodabandeh, H.A. 2013. Lethal effect of tobacco and cinnamon extracts on the aphid, *Schizaphis graminum*. The Second National Conference on Applied Research in Agricultural Sciences. University of Tehran.

10. Babavelilo, M., Shahrokhi Khaneghah, S. and Khodabandeh, H.A. 2013. The possibility of wheat aphidS control using the leaf extract of the medicinal plants of Marmeneh and Eucalyptus. The Second National Conference on Applied Research in Agricultural Sciences. University of Tehran.

11. Helvai, M., Shahrokhi Khaneghah, S. , Khodabandeh, H.A. and Babaulilo, M. 2014. Comparison of the effect of tobacco and eucalyptus leaf extracts on the aphid, *Rhopalosiphum padi* L. (Hemiptera: Aphididae. National Conference on New Findings in Agricultural Research and Natural Resources. Islamic Azad University, Miyaneh, Iran.

12. Helvai, M., Shahrokhi Khaneghah, S. , Khodabandeh, H.A. and Babaulilo, M. 2014. Bioassay of cinnamon and fennel leaf extracts on the aphid, *Rhopalosiphum*

padi L.. National Conference on New Findings in Agricultural Research and Natural Resources. Islamic Azad University, Miyaneh, Iran.

13. Helvai, M., Shahrokhi Khaneghah, S. , Khodabandeh, H.A. and Babaulilo, M. 2014. The possibility of the aphid, *Rhopalosiphum padi* L. control by using the stem and leaf extract of the date palm plant. National Conference on New Findings in Agricultural Research and Natural Resources. Islamic Azad University, Miyaneh, Iran.

14. Babavelilo, M.F. Shahrokhi Khaneghah, S., Khodabandeh, H.A. and spotlight, H. 2013. Investigating the lethal effect of nettle stem and leaf extract on the aphid, *Schizaphis graminum*. National Conference on Sustainable Agriculture, Environment and Rural Development. Kohdasht, Iran.

15. Shahrokhi Khaneghah, S., Darvish Majni, T. and Pourgaz, A.H. 1390. Population fluctuation and efficiency of aphid parasitoid in cotton fields. National Conference on the Development of Biological Control in Iran. Plant Medicine Research Institute, Tehran.

16.Mohaghegh, J., Amir-Maafi, M., Shahrokhi Khaneghah, S. and Pirhadi, A. 2015. Optimal sample size estimation for sampling of canola false chinch bug, *Nysius cymoides* (Hemiptera: Lygaeidae). The first Iranian International Congress of Entomology. Iranian Research Institute of Plant Protection. Tehran, Iran

Abstracts published in conference proceedings

35 abstracts published in conference proceedings

Books

1.Pourmansouri, T., Shahrokhi Khaneghah, S., Farzadfar, S. Minbashi, M., Tanhamaafi, Z., Ghasemi, A. 2015. Manual of plant protection in barley. Iranian Research Institute of Plant Protection, Tehran.

Thesis Dissertation

Supervisor

1. Side effects of four insecticides on the searching behavior of aphid parasitoid, *Diaeretiella rapae*.

2- Side effects of four insecticides on the biological parameters of the aphid parasitoid, *Diaeretiella rapae*.

3- Biological characteristics of the aphid, *Schizaphis graminum* (Randomi) on different barley varieties at different temperatures.

4- Antibiosis and antixenosis resistance of four barley cultivars to the aphid *Rhopalosiphum padi* L. in laboratory condition.

5- The killing effect of essential oils of medicinal plants of lavender, lemon balm and mint spicata on the aphid, *Schizaphis graminum*.

6- Evaluation of the effect of essential oils of black pepper, geranium, garlic, lemongrass and hyssop on potato moth, *Phthorimaea operculella* (Zeller).

7- Biology and population fluctuation of the tomato moth, *Tuta absoluta* (Meyrick)

8- Reproductive strategy of the aphid, *Rhopalosiphum padi*.

9- Optimizing the use of plant compounds in the control of *Aphid gossypii* on tomato.

10- Development of production technology to increase the quality of *Tricogramma brassicae*.

Advisor

1. The insecticidal effect of *Trichoderma harzianum* on the aphid, Schizaphis graminum.

2. The effect of eucalyptus essential oil against cabbage aphid.

3. Life table of the aphid, *Rhopalosiphum padi* on barley cultivars at different temperatures.

4. Optimizing the use of some organic and mineral substances to increase the resistance of tomatoe against the tomato moth, *Tuta absoluta*.

Training course and workshop

Participation in more than 30 courses and workshops

Membership

-Member of the scientific committee at Iranian Research Institute of Plant Protection (since 2016)

-Member of Iranian Entomological Society

Reviewer (Journal)

1. Journal of Entomological Society of Iran
2. Journal of Phytopathology and Plant Protection
3. Journal of Crop Protection
4. Journal of Agricultural Science and Technology
5. Journal of Plant Pests Reseach
6. Iranian Journal of Plant Protection Science
7. Biological Control of Plant Pests and Diseases