



Azadeh Farazmand (PhD-Entomology)

Iranian Research Institute of Plant Protection,
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EDUCATION

Ph.D. Agricultural Entomology- Biological control

Tarbiat Modares University, Tehran, Iran
2007-2012

Thesis title: Intraguild interactions among *Scholothrips longicornis* and phytoseiid mites of *Neoseiulus californicus* and *Typhlodromus bagdasarjani* on *Tetranychus urticae*

M.Sc. Agricultural Entomology- Biological control

University of Tabriz, Tabriz, Iran
2003-2005

Thesis title: A comparison of biological parameters of *Trichogramma brassicae* Bez. On *Anagasta kuhniella* and *Plodia interpunctella* in laboratory

B.Sc. Agricultural Science- Plant Protection

University of Tehran
1999-2003

WORK EXPERINCE

Assistant professor

Iranian Research Institute of Plant Protection,
Department of Agricultural Zoology Research,
Tehran, Iran
May 2015 - Present (8 years)

Efficacy of Bifenazate SC24% in comparison to common acaricides against *Tetranychus urticae* in cucumber greenhouse. 2018-2019.

Studying of acaricide Oberon 24% SC (spiromesifen) in comparison with the common acaricides against *Eotetranychus hirsti* (Acari: Tetranychidae) in two regions Estahban and Kharameh in Fars province.2019-2020.

Efficiency of Killermite (Bifenazate 24% SC) on carnation and Polaris (Chlorfenapyr 24% SC) on rose in comparison to common acaricides against *Tetranychus urticae*.2018-2020.

Investigation on the possibility of preparation of capsule suspension (CS) formulations of abamectin/sulfur in order to simultaneous control of cucumber powdery mildew and two-spotted spider mite. 2020-present.

Studying of new acaricide Envidorspeed 24% SC (abamectin+spirodiclophen) in comparison with the common acaricides against *Eotetranychus hirsti* (Acari: Tetranychidae).2016-2017.

SIGNIFICANT CAREER ACHIEVEMNETS

Significantly improved the efficiency of spider mite control in cucumbers by developing temperature models of the prey and its predator *Amblyseius swirskii*. 2016-2018

Determining the optimal temperature for mass-rearing of *Amblyseius swirskii* in insectariums.2016-2018.

Identifying twenty-four species from nine genera of Phytoseiidae, among which three species were newly recorded for Iran. 2019-present.

Achieving a suitable method for semi mass rearing of native predatory mite of *Amblyseius largoensis* (Acari: Phytoseiidae) as a biological control agent of two-spotted spider mite.2020-present.

AWARDS

Recognized as outstanding Phd Thesis in Tarbiat Modares University (2012). Iran

CHAPTER

Hajiqanbar, H. and **Farazmand, A.** 2021. Biological control by mites in Iran. In: J. Karimi, H. Madadi (eds.), Biological control of insect and mite pests in Iran.pp:89-141.

HANDBOOK

Azadeh Farazmand, 2017. Important species of phytoseiid predatory mites in agriculture. Ministry of agriculture, Agricultural Research, Education & Extension Organization. 26p. (in Persian)

EDITORIAL & REVIEW EXPERIENCES FOR PEER-REVIEWED JOURNALS

Member of Editorial board of Persian Journal of Acarology. Since 1Jan.2020 until now.

Systematic and Applied Acarology
Journal of Economic Entomology
International Journal of Acarology
Persian Journal of Acarology
Journal of Crop Protection
Journal of Agricultural Science and Technology
Journal of Entomological Society of Iran
Biocontrol of plant
Plant pest research

COMPLETED STUDENTS:

Advisor- Alipour, Zahra. Demographic parameters of *Phytoseiulus persimilis* and *Amblyseius swirskii* (Phytoseiidae) on two-spotted spider mite fed on resistant and susceptible rose cultivars. **Tarbiat Modares University**. 2014-2016.

Advisor-Alireza Arjmandinejad. Fauna and species diversity of Phytoseiid mites (Mesostigmata: Phytoseiidae) in Sistan and Baluchestan province. **Zabol University**. 2018-2022.

Advisor- Samaneh Yari. Efficacy of some Species of Phytoseiid Predatory Mites in Suppression of *Tetranychus urticae* (Acari: Tetranychidae) and *Frankliniella occidentalis* (Thysanoptera: Thripidae) on Greenhouse Rose. **Tarbiat Modares University**. 2019-2023.

Co-supervisor-Fatemeh Eghbali. Temperature dependent development of *Amblyseius swirskii* (Acari:Phytoseiidae) in different temperature on feeding *Trialeurodes vaporariorum* on strawberry . **Tehran University**. 2020-2022.

Advisor- Roghayeh Jafari. Demographic parameters of *Amblyseius swirskii* on Cucumber and bean plants. **Tehran University**. 2020-2022.

PRIMARY SUPERVISOR:

- Co-supervisor- Afsaneh Soltanian. Investigation of sub-lethal and physiological effects of bromopropylate and GC-mite acaricides on biological parameters of *Phytoseiulus persimilis* and *Neoseiulus californicus*. **Tabriz University. Iran.** 2022-present.
- Co-supervisor- Afkhami Maryam. Collecting and screening of phytoseiid mites from Tehran province and their investigation in terms of ecology and biology. **Tehran University. Iran.** 2022-present.
- Co-supervisor- Mayur Wabhitkar. Predation efficiency of *Chrysoperla zastrowi sillemi* (Esben-Petersen), *Blaptostethus pallelescens* (Poppius) and *Neoseiulus indicus* (Narayan and Kaur) against *Tetranychus urticae* Koch on brinjal. **Punjab Agricultural University. India.** 2023-present.

PEER REVIEWED PUBLICATIONS

- Yari, S., Hajiqaanbar, H., **Farazmand, A.**, Fathipour, Y., & Rashed, R. 2023. Assessment of *Neoseiulus cucumeris* at different release rates in control of *Frankliniella occidentalis* on rose plant under some factors. *Systematic & Applied Acarology*. 28(3): 607-618.
- Farazmand, A.**, Jalaean, M., Kamali, H., Saboori, A. Stéphane Tixier, M and Kreiter, S. 2023. Phytoseiidae (Acari: Mesostigmata) in four provinces of Iran. *Persian Journal of Acarology*. 12(1):21-58.
- Yari, S., Hajiqaanbar, H., **Farazmand, A.**, Fathipour, Y., & Rashed, A. 2023. Efficacy of single and combined release of *Phytoseiulus persimilis* and *Amblyseius swirskii* at different release ratios for control of *Tetranychus urticae* and *Frankliniella occidentalis* on rose plants. *International of Journal of Pest Management*. 1-11.
- Yari, S., Hajiqaanbar, H., **Farazmand, A.**, Fathipour, Y., & Rashed, R. 2023. Damage caused by *Tetranychus urticae* and *Frankliniella occidentalis* on rose plant. *Arthropod-Plant Interactions*. *In press*.
- Arjmandi Nezhad, A., Ravan, S., Saboori, A., Rakhshani, E. and **Farazmand, A.** 2022. Effects of the grapefruit wastes and sesame oil cake to control Genetic diversity Biodiversity of Phytoseiid mites (Acari: Mesostigmata:Phytoseiidae) in Sistan region, Iran. *Iranian Journal of Plant Protection Science*. 53(1) 85-89. (in Persian).
- Farazmand, A.**, Amir-Maafi, M. 2021. Use of functional response modeling to evaluate the effect of temperature on predation of *Amblyseius swirskii* adults preying on *Tetranychus urticae* nymphs. *Journal of Economic Entomology*, 1-6. <https://doi.org/10.1093/jee/toab171>.
- Nateq Golestan, M., **Farazmand, A.** and Kamali H. 2021. Study of population relationship and the effect of several acaricides on the *Tetranychus urticae* Koch and the predatory mite of *Neoseiulus californicus* (McGregor) in greenhouse roses. *Plant Pest Research*. 11(3):59-69. (in Persian)
- Farazmand, A.**, Amir-Maafi, M. and Atlihan, R. 2020. Temperature-dependent development of *Amblyseius swirskii* (Acari: Phytoseiidae) on *Tetranychus urticae* (Acari: Tetranychidae). *Systematic and Applied Acarology*, 25(3):538-547.
- Farazmand, A.** 2020. Effect of the temperature on development of *Tetranychus urticae* (Acari: Tetranychidae) feeding on cucumber leaves. *International Journal of Acarology*, <https://doi.org/10.1080/01647954.2020.1805001>
- Farazmand, A.**, Amir-Maafi, M. 2020. Oviposition model of *Amblyseius swirskii* Athias-Henriot in prey system (*Tetranychus urticae* Koch). *Systematic and Applied Acarology*, 25(10):1857-1866.
- Alipour, Z., Y. Fathipour, **A. Farazmand**, M. Khanamani. 2019. Resistant rose cultivar affects life table parameters of two-spotted spider mite and its predators *Phytoseiulus persimilis* and *Amblyseius swirskii* (Phytoseiidae). *Systematic and Applied Acarology*, 24(9):1620-1630.
- Farazmand, A.** and Amir-Maafi, M. 2018. A population growth model of *Tetranychus urticae* (Acari: Tetranychidae). *Persian Journal of Acarology*. 7(2):193-201.

- Farazmand, A.**, Golmohammadi, Gh, Rastegaari, N., Yousefi, M., Ghorbani, R. and Tohidi, M. 2018. Studying of new acaricide envidorspeed (SC 24%) (abamectin+spirodiclophen) in comparison with the common acaricides against *Eotetranychus hirsti*. Pesticides in Plan Protection Sciences. 5(1):34-41. (in Persian).
- Fathipour, Y., Karimi, M., **Farazmand, A.** and Talebi, A.A. 2018. Age-specific functional response of *Phytoseiulus persimilis* (Phytoseiidae) on two-spotted spider mite, *Tetranychus urticae*.. *Acarologia*, 58(1):31-40.
- Fathipour, Y., Karimi, M., **Farazmand, A.** and Talebi, A.A. 2017. Age-specific functional response of *Amblyseius swirskii* (Phytoseiidae) on two-spotted spider mite, *Tetranychus urticae*. *Systematic and Applied Acarology*.159-169.
- Alipour Z., Fathipour, Y. and **Farazmand, A.** 2016. Age-stage predation capacity of *Phytoseiulus persimilis* and *Amblyseius swirskii* (Acari: Phytoseiidae) on susceptible and resistant rose cultivars. *International Journal of Acarology*.
- Farazmand, A.**, Fathipour, Y. and Kamali, K. 2015a. Control of the spider mite *Tetranychus urticae* using phytoseiid and thrips predators under microcosm conditions: single-predator versus combined-predators release. *Systematic and Applied Acarology*.162-170.
- Farazmand, A.**, Fathipour, Y. and Kamali, K. 2015b. Intraguild predation among *Scolothrips longicornis* (Thysanoptera: Thripidae), *Neoseiulus californicus* and *Typhlodromus bagdasarjani* (Acari: Phytoseiidae) under laboratory conditions. *Insect science*. 263-272.
- Farazmand, A.**, Fathipour, Y. and Kamali, K. 2014. Cannibalism in *Scolothrips longicornis* (Thysanoptera: Thripidae), *Neoseiulus californicus* and *Typhlodromus bagdasarjani* (Acari: Phytoseiidae) *Systematic and Applied Acarology*.471-480.
- Farazmand, A.**, Fathipour, Y. and Kamali, K. 2013. Functional response and mutual interference of *Scolothrips longicornis* (Thysanoptera: Thripidae) on *Tetranychus urticae* (Acari: Tetranychidae).*IOBC-WPRS Bulletin*. 93:39-44.
- Farazmand, A.**, Fathipour, Y. and Kamali, K. 2012. Functional response and mutual interference of *Neoseiulus californicus* and *Typhlodromus bagdasarjani* (Acari: Phytoseiidae) on *Tetranychus urticae* (Acari: Tetranychidae).*International journal of Acarology*. 369-376.
- Farazmand, A.**, Fathipour, Y. and Kamali, K. 2012. Predation of *Neoseiulus californicus* and *Typhlodromus bagdasarjani* on heterospecific phytoseiid and *Scolothrips longicornis* in presence and absence of *Tetranychus urticae*. *Persian Journal of Acarology*. 2(1):181-188.
- Iranipour, S, **Farazmand, A.** Saber, M. and Mashhadi jafarloo, M. 2009. Demography and life history of the egg parasitoid, *Trichogramma brassicae*, on two moths *Anagasta kuehniella* and *Plodia interpunctella* in the laboratory. *Journal of insect science*. 9(51):1-8
- Farazmand, A.** & Iranipour, Sh, Saber, M., & Mashhadi Jafarloo, M. .2007. Comparison of some biological parameters of *Trichogramma brassicae* Bez. On *Anagasta kuhniella* Zell.and *Plodia interpunctella* Hub. In laboratory condition. *Journal of Agricultural Science*. 17(3):175-185. (in Persian)
- Farazmand A.** & Iranipour Sh. 2006. Functional response of *Trichogramma brassicae* Bez. (Hym.: Trichogrammatidae) to different densities of *Anagasta kuehniella* Zell. and *Plodia interpunctella* Hub. eggs in laboratory condition. *Iranian Journal of Plant Protection Science*. 39(1):67-72. (in Persian)

INTERNATIONAL CONFERENCES

- Farazmand, A.**, Golmohammadi, Gh, N. Rastegari, Yousefi, M., Gorbani, R. & Tohidi, M.2017. Studying of new acaricide envidorspeed (24%SC) in comparison with the common acaricide against *Eotetranychus hirst*. 2nd Iranian International Congress of Entomology.Iran
- Fathipour,Y., Karimi, M., **Farazmand, A.**, Talebi, A.A. 2017. Age-specific functional response of *Phytoseiulus persimilis* on two-spotted spider mite, *Tetranychus urticae*. The 3rd International Persian Congress of Acarology.Iran
- Farazmand, A.**, Maghsoodlou, M. and Amir-Maafi, M.2015. Reproductive parameters of *Tetranychus urticae* (Acari: Tetranychidae) on three leguminous plants. 1st Iranian International Congress of Entomology, Tegrn, Iran.

- Farazmand, A.**, Fathipour, Y. and Kamali, K. 2013. Effect of predation activity of *Neoseiulus californicus*, *Typhlodromus bagdasarjani* (Phytoseiidae) and *Scolothrips longicornis* (Thripidae) on population density of adult females of two-spotted spider mite under microcosm conditions. The second International Persian congress. Karaj
- Farazmand, A.**, Fathipour, Y. and Kamali, K. 2011. Intraguild predation among *Scolothrips longicornis* (Thysanoptera: Thripidae), *Neoseiulus californicus* and *Typhlodromus bagdasarjani* (Acari: Phytoseiidae) under laboratory conditions. The First Persian Congress of Acarology, Kerman, Iran.
- Farazmand, A.**, Fathipour, Y. and Kamali, K. 2011. Functional response and mutual interference of *Scolothrips longicornis* (Thysanoptera: Thripidae) on two spotted spider mite. Third meeting of IOBC Working Group 13p.
- Iranipour, S, Farazmand, A. 2011. Life history of Indian meal moth, *Plodia interpunctella* (Hubner) in laboratory. Global conference on Entomology, March 5-9, Chiang Mai, Thailand. pp. 502.
- Iranipour, S, **Farazmand, A.** Saber, M. and Mashhadi jafarloo, M. 2008. Demography and life history of the egg parasitoid, *Trichogramma brassicae*, on two moths *Anagasta kuehniella* and *Plodia interpunctella* in the laboratory. Proceedings of the VIIIth European Congress of Entomology, 17-22 Sept.2006, pp. 21. Izmir, Turkey.
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