

PERSONAL INFORMATION **Mina Kouhjani Gorji**



Research Institute of Forests and Rangelands, Tehran, Iran.

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Work Experience

2015 - Now Faculty member (assistant research professor) in " Conservation and protection Department, Research Institute of Forests and Rangelands", Tehran, Iran

Duties:

- 1-pest management with botanical and bio-rational pesticides.
- 2-
- 3- Research on by-product of medicinal plants for insecticide usage, and then formulation.

2017 - 2019 Teaching Insect pests of ornamental plants in "Imam Khomeini Higher Education Center", Karaj, Iran.

2012 - 2013 Assistant in Lab of insect systematics in Tarbiat Modares University, Teheran, Iran.

2009 - 2010 Teaching General Entomology and Plant pathology in Islamic Azad University Saveh.

2008 - 2010 Municipal Green Space Supervisor of Tehran green space (Region5-2).

Professional Training

- 2020 online course on Global One Health: towards human, animal and plant health at Wageningen Centre of Development Innovation(18 October 2021 – 8 December 2021)
- 2018 Internal audit of the quality system of laboratories according to the standard ISO/IEC17025 (12h).
- 2018 GPS and its application (24h).
- 2017 Extraction, quantification and analysis of pesticide residues (16h).
- 2016 Quality Assurance of Laboratory Results (24h).
- 2016 Principles of safety in the laboratory (18h).
- And about 60 other training courses

Education

- 2009 - 2014 Tarbiat Modares University, Tehran, Iran: Ph.D. in Entomology, Physiology-Botanical pesticide.
• Thesis Title: Effect of two Phytoecdysterioid extracts and their nano-encapsulated formulation on diamondback moth, *Plutella xylostella* (Lep: Plutellidae). **Graduated with excellent degree.**
- 2005-2007 Tarbiat Modares University, Tehran, Iran: M.Sc. in Entomology, Biological Control.
• Thesis Title: Temperature-dependent demography of *phytoseius plumifer* (Acari: Phytoseiidae) on two-spotted spider mite. **Graduated as Top student, GPA: 18.01, out of 20.**
- 2003- 2005 Zabol and Tehran University, Tehran, Iran: B.Sc. in Entomology (7 Semesters). **Graduated as Top student, GPA: 16.34, out of 20.**

Honors

- 2013 Top lecturer in Third National Conference on Pest Management in Iran.

Scientific Activities

Articles:

- 2023 [Kouhjani-Gorji, M.](#) Investigating the efficacy of three botanical pesticides, Nimazal®, Matrine® and Bio1®, against boxwood moth *Cydalima perspectalis* Walker (Lep.: Crambidae). *Forests and Rangelands Protection Research Journal*
- 2023 [Kouhjani-Gorji, M.](#), Farashiani, M.E., Farahani, S., Kazerani, F., Askari, F., Yahyazadeh Balalami, M. and S. Asadi Sanam. Evaluating the effects of biopesticides on the mortality rate of Boxwood moth caterpillars (*Cydalima perspectalis* Walker), *Iran Nature*.
- 2023 Farashiani, M. E., Ghanaie, S., Kazerani, F., Naji, H. R., Askari, H., Yarmand, H., Farrar, N., Rajabi Mazhar, A. R., Hamzehzarghani, H., Shafaii, F., Zarghani, E., Tavakoli, M., Golestaneh, S. R., Farahani, S., [Kouhjani Gorji, M.](#), Sadeghi, S. M., Alavi, J., Pordel, A., Achak, Y., Hashemi Khabir, Z., Hanifeh, S., Baradaran, G. R., Sarani, M., Dezyanian, A., Zarnegar, A., Niknam, M., Mohammadpour, P., Taghizadeh, M., Yahoeiyan, S. H., Alinezhad, M., and Motamedi, J. 2 An Introduction to the Sustainable Protection of Iran's Natural Environments: Challenges and Strategies. *Strategic Research Journal of Agricultural Sciences and Natural Resources*
- 2022 Kazerani, F., Farashiani, M. E., Farahani, S., Zamani, S. M., [Kouhjani-Gorji, M.](#) and S. N. Khaleghi Trujeni, Pheromone and light traps are useful agents for monitoring and control of box tree moth (*Cydalima perspectalis*; Lep., Crambidae). *Iran Nature*.
- 2022 Farahani, S., Farashiani, M. E., Kazerani, F., [Kouhjani-Gorji, M.](#) and S. N. Khaleghi Trujeni, A Review of biology of Box tree moth in forests of northern Iran, *Iran Nature*.
- 2022 Askari, F., Sefidkon, F., Asadi Sanam, S., [Kouhjani Gorji, M.](#) and B. Allahverdi-Mamaghani. Anticancer effects of some plant essential oils, *Iran Nature*.
- 2022 Yahyazadeh, M., Hadi, N., Shirazi, Z., Jaimand, K., Kh. Karimzadeh, [Kouhjani Gorji, M.](#) And et . Characterization of P450 enzyme gene responsible for Cheilanthifoline alkaloid in greater celandine (*Chelidonium majus* L.) by transgenic yeast *Pichia pastoris*. *Iranian Journal of Medicinal and Aromatic Plants Research*
- 2020 Farahani, S., Salehi, M., F. Kazerani, Farashiani, M.E. and [M., Gorji Kouhjani](#). Development and Survival of *Cydalima perspectalis* (Walker, 1859) (Lepidoptera: Crambidae), in laboratory and Hyrcanian Forests. *Journal of Crop Protection*.
- 2019 Kazerani, F., Farashiani, M.E., Farahani, S. and [M., Gorji Kouhjani](#). Sex pheromone traps for detection of *Cydalima perspectalis* (Walker) in Hyrcanian forests, Iran. *International Journal of Pest Management*.
- 2018 [Kouhjani-Gorji, M.](#), M.E. Farashiani, S. Farahani and F. Kazerani. Biological control efficiency of azadirachtin and its combination with Henna on bux moth, *Cydalima perspectalis* Walker (Lep: Crambidae). *Iranian Journal of forest and poplar research*.
- 2018 [Kouhjani Gorji, M.](#), Kazerani, M.E. Farashiani and S. Farahani. Assessment of combination effects of *Bacillus thuringiensis* var. Kurstaki, Hanna and Vinagre on the bux moth, *Cydalima perspectalis* Walker (Lep: Crambidae). The 1st National Congress on Iranian Forest, Research and Development. *Journal of Forest, Research and Development*.
- 2018 [Kouhjani Gorji, M.](#) and S., Moharamipour. Introducing valuable ingredients of two Iranian medicinal plants (*Dianthus orientalis* Adams and *Silene aucheriana* Boiss). *Iran nature Journal*.
- 2015 Shahini, A., Habibpour, B., Moharamipour, S. and [M., Kouhjani Gorji](#). Effects of phytoecdysteroidal Extract of *Silene aucheriana* and Halofenozide on Termite *Reticulitermes* sp. Control in Lab conditions). *Iranian Journal of Plant Protection Science*.
- 2012 [Kouhjani Gorji, M.](#), Fathipour, Y. and K., Kamali. Life table parameters of *Phytoseius plumifer* (Phytoseiidae) fed on two spotted spider mite at different constant temperatures. *International journal of Acarology*.
- 2010 [Kouhjani Gorji, M.](#), Fathipour, Y. and K., Kamali. The effect of temperature on functional response and voracity of *Phytoseius plumifer* (Acari: Phytoseiidae) on two-spotted spider mite. *Acarina*.
- 2009 [Kouhjani Gorji, M.](#), Moharamipour S. and K., Kamali. Ecdysteroidal compound of *Silene aucheriana* and its dietary effect on fecundity of *Plutella xylostella* (L.). *Plant protection Journal*.
- 2008 [Kouhjani Gorji, M.](#), Fathipour, Y. and K., Kamali. Temperature-dependent development of *Phytoseius plumifer* (Acari: Phytoseiidae) on *Tetranychus urticae* (Acari: Tetranychidae). *Experimental and Applied Acarology*.

Presented papers and conferences:

2023	<u>Kouhjani-Gorji, M.</u> , Farashiani, M.E., Asadi -Sanam, S. Investigating the effect of fumigant toxicity of <i>Thymus vulgaris</i> essential oil against <i>Cydalima perspectalis</i> .
2023	<u>Kouhjani-Gorji, M.</u> , Farashiani, M.E., Asadi -Sanam, S. Investigating the insecticidal effect of the essential oils of 3 native savory species of Iran against <i>Ephestia kuehniella</i> Zeller
2022	<u>Kouhjani-Gorji, M.</u> , Farashiani, M.E., Farahani, S. and F. Kazerani . Evaluation of the effect of two botanical pesticides to control boxwood moth, <i>Cydalima perspectalis</i> Walker (Lep: Crambidae)
2022	<u>Kouhjani-Gorji, M.</u> , Farashiani, M.E., Farahani, S. and F. Kazerani . Evaluation of <i>Bacillus thuringiensis</i> effect and mixing it with henna powder on boxwood moth.
2018	<u>Kouhjani-Gorji, M.</u> , Farashiani, M.E., Farahani, S. and F. Kazerani. Assessment of combination effects of commercial neem extract NeemAzal-T/S and Hanna on the bux moth, <i>Cydalima perspectalis</i> Walker (Lep: Crambidae). <i>23rd Iranian Plant Protection Congress</i> .
2018	<u>Kouhjani-Gorji, M.</u> , Farashiani, M.E., Farahani, S. and F. Kazerani. Efficacy of two botanical pesticides against Bux moth, <i>Cydalima perspectalis</i> Walker (Lep: Crambidae). <i>23rd Iranian Plant Protection Congress</i> .
2017	<u>Kouhjani-Gorji, M.</u> and S., Moharramipour Effect of phytoecdysteroid extract of <i>Dianthus orientalis</i> and <i>Silene aucheriana</i> on enzyme activities and energy reserves of <i>Plutella xylostella</i> . <i>2nd Iranian International Congress of Entomology</i> .
2017	<u>Kouhjani-Gorji, M.</u> and S., Moharramipour. Dietary effect of phytoecdysteroidal extracts of <i>Dianthus orientalis</i> Adams (Caryophyllaceae) on fecundity of <i>Plutella xylostella</i> (L.) <i>2nd Iranian International Congress of Entomology</i> .
2015	<u>Kouhjani Gorji, M.</u> , S. Moharramipour, K. Kamali and M. Negahban. Dietary effect of nano-encapsulated phytoecdysteroidal extract of <i>Silene aucheriana</i> Boiss (Caryophyllaceae) on fecundity of <i>Plutella xylostella</i> (L.). <i>Asian Nano Congress 2015</i> .
2013	<u>Kouhjani Gorji, M.</u> , Moharramipour, S. and K. Kamali. Effect of dietary phytoecdysterid extract <i>Silene aucheriana</i> Boiss and <i>Dianthus orientalis</i> Adams on larval weight of <i>Plutella xylostella</i> (L.) (Lepidoptera: Plutellidae). <i>Third National Conference on Pest Management</i> .
2012	<u>Kouhjani Gorji, M.</u> , Moharramipour, S. and K. Kamali. first report of phytoecdysteroids of <i>Silene aucheriana</i> L. (Caryophyllaceae). <i>20rd Iranian Plant Protection Congress</i> .
2012	<u>Kouhjani Gorji, M.</u> , Fathipour, Y. and K., Kamali. Life table parameters of <i>Phytoseius plumifer</i> (Phytoseiidae) fed on two spotted spider mite at different constant temperatures. <i>International journal of Acarology</i> .
*And four Presented papers and conferences in National Plant Protection Congresses in Iran.	

Approved Projects

Role: Principal Investigator

- 2018-2022 Making Crab moth (*Ectomyelois ceratoniae* Zeller) repellent formulation using *Ferula assafoetida* essential oil and extract.
- 2018-2020 Micro-encapsulation of essential oils within sodium Alginate as a polymer to increase persistence, efficiency and controlled release of its for insecticidal purposes.
- 2017-2020 Assessment of the efficacy of some bio-rational and botanical pesticides for the management of bux moth (*Cydalima perspectalis* Lep: Crambidae) on *Buxus hyrcana* in Mazandaran province.
- 2016-2020 The effect of insecticidal activity of essential oils from three endemic species of native savory.

Role: Co-Investigator

- 2018-2022 The extraction of various extracts of Astragalus gum and their application in formulation of cosmetics.
- 2018-2022 The processing of *Pistacia atlantica* gum by the conversion of its turpentine oil to some usable

- aromatic compound.
- 2018-2021 The study of processing methods of *Ferulla gommosa* gum to produce the added value products.
- 2017-2021 The effect of different nutrition treatments on growth and yield of some Satureja species in irrigation condition(pest control).
- 2016-2020 Research and extension of the dry farming of *Thymus daenensis* in pilot scale(pest control).
- 2017-2020 Study of Bio-ecology and biological control agents of bux in Hirkani forests.
- 2017-2020 Investigation harvest of natural habitat, production and export of medicinal plants and by products.
- 2017-2019 survey efficiency of pheromone and light traps in controlling the bux tree moth (*Cydalima perspectalis* (Walker, 1859); Lep: Crambidae) in Golestan province.
- 2017-2019 Investigation of type and percentage of identified compound in medicinal and aromatic plants of Iran.

Supervisor and Guidance

- 2018-2020 Guidance 2 master thesis, in Tarbiat Modares university and Iran University of Medical Sciences.

General Skills

Languages

- Persian: Native
- English: Fluent
- Germany: Beginner
- Arabic: Beginner

Computer Literacy

- Endnote
- MSTATC
- SPSS
- Minitab
- SAS
- Office (Word, Excel, PowerPoint)

Fields of Interests

- Botanical pesticide
- Nano-biopesticide formulation and bio-pesticide formulation
- Bioassay
- Pest management
- Insect physiology

Personal Interest and Activity
