



CURRICULUM VITAE

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Academic qualifications

PhD: Tarbiat Modares University (TMU) – Tehran, Iran

MSc: Shahid Chamran University – Ahwaz, Iran

BSc: BSc: Urmia University – Urmia, Iran

Research interests:

- ✓ Forecasting models
- ✓ Insect Population Ecology
- ✓ IPM

Selected research projects:

1-Biological control of the codling moth based on the Degree-Hours forecasting model in Damavand region

2-Providing forecasting model based on the estimation of thermal units (GDH) for determination of the best times for the codling moth, *Cydia pomonella*, control

3-Using mathematical models to estimate lower thermal threshold and thermal requirement of the established codling moth populations in western Azarbaijan, Esfahan and Tehran provinces

4-Mass rearing of the sugarcane stem borers, *Sesamia* spp. using semi-artificial diet

5-The effect of temperature on development and feeding rate of *Cryptolaemus montrouzieri* Mulsant (Coleoptera: Coccinellidae)

6-Mathematical model and thermal indices for the development of predaceous coccinellid, *Stethorus gilvifrons* (Col.: Coccinellidae)

7-Selection of the most suitable host for mass rearing of the predaceous coccinellid, *Stethorus gilvifrons*, established in the sugarcane fields of Khuzestan province

8-Identification of the wireworms and primarily investigation on biology of dominant species in Ardabil potato fields

9-Complimentary identification of the natural enemies of the potato Colorado beetle and survey dynamic in main potato growing areas of Iran

10-Complimentary investigation about the efficiency of the trade components of microbial insecticides, *Beauveria bassiana* & *Bacillus thuringiensis* and Calypso[®](Thiacloprid) in control of the potato Colorado beetle

Selected publications:

Journals papers

1. **Ranjbar Aghdam, H.** and Kamali, K. 2002. *In vivo* Rearing of *Sesamia cretica* and *Sesamia nonagrioides botanephaga*. Journal of Entomological Society of Iran, 22: 63-78.
2. **Ranjbar Aghdam, H.** and, Kamali, K. 2005. Investigation on biology and efficiency of *Platytenomus hylas* Nixon (Hym., Scelionidae), the

- egg parasitoid of *Sesamia* spp. under laboratory condition. The Scientific Journal of Agriculture, 27: 71-82.
3. Kouhjeni Gorji, M., Kamali, K., Fathipour, Y. and **Ranjbar Aghdam, H.** 2008. Temperature-dependent development of *Phytoseius plumifer* (Acari: Phytoseiidae) on *Tetranychus urticae* (Acari: Tetranychidae), Systematic and Applied Acarology, 13(3):172-181.
 4. **Ranjbar Aghdam, H.**, Fathipour, Y., Kontodimas, D. C., Radjabi, Gh. and Rezapanah, M. 2009. Age-specific life table parameters and survivorship of an Iranian population of the codling moth (Lepidoptera: Tortricidae) at different constant temperatures. Annals of the Entomological Society of America, 102: 233-240.
 5. **Ranjbar Aghdam, H.**, Fathipour, Y., Radjabi, Gh. and Rezapanah, M. 2009. Temperature-dependent development and thermal thresholds of codling moth (Lepidoptera: Tortricidae) in Iran. Environmental Entomology, 38: 885-895.
 6. **Ranjbar Aghdam, H.** and Mahmoudian, R. 2010. Development and reproductive parameters of *Trichogramma embryophagum* Hartig on different rice cultivars, Modern Technologies in Agriculture, 4 (2): 75-91.
 7. **Ranjbar Aghdam, H.** and Fathipour, Y. 2010. First report of parasitoid wasps, *Ascogaster quadridentata* and *Bassus rufipes* (Hym.: Braconidae) on codling moth (Lep.: Tortricidae) larvae from Iran, 30 (1): 55-58.
 8. **Ranjbar Aghdam, H.**, Fathipour, Y. and Kontodimas, D.C. 2011. Evaluation of non-linear models to describe development and fertility of codling moth at constant temperatures, Entomologia Hellenica, 20: 3-16.
 9. Ghorbanian, S., **Ranjbar Aghdam, H.** and Ghajarieh, H. 2011. Efficacy of *Cryptolaemus montrouzieri* Mulsant for biological control of *Planococcus citri* (Risso) on *Solenostemon scutellarioides* (L.) Codd in greenhouse conditions, Iranian Journal of Plant Protection Science, 44(2): 235-241.
 10. Ghorbanian, S., **Ranjbar Aghdam, H.**, Ghajarieh, H. and Malkeshi, H. 2011. Biology and life table parameters of *Cryptolaemus montrouzieri* Mulsant (Col.: Coccinellidae) on *Planococcus citri* (Risso) (Hem.: Pseudococcidae) reared on coleus, Journal of the Entomological Research Society, 13(2): 53-59.
 11. **Ranjbar Aghdam, H.** 2013. Study on the Natural Enemies of the Colorado potato beetle, *Leptinotarsa decemlineata* (Say) and Population

- Fluctuation of the Green Lacewing, *Chrysoperla carnea* Stephen in Potato Fields of Ardabil Plain, *Agroecology Journal*, 9(1): 41-50.
12. Nemati, Z., **Ranjbar Aghdam, H.**, Askarianzadeh, A. and Abbasipour, H. 2014. Temperature-dependent development and estimation of the main thermal indices of the common green lacewing, *Chrysoperla carnea*, using linear models, *BioControl in Plant Protection*, 1: 75-89.
 13. **Ranjbar Aghdam, H.** and Mahmoudian, R. 2014. Effect of different rice varieties on age specific life table and population growth parameters of *Trichogramma brassicae*, the egg parasitoid of the striped stem borer, *Chilo suppressalis*, *Iranian Journal of Plant Protection Science*, 45 (1): 1-11.
 14. Sedighi, L., Rezapanah, M., **Ranjbar Aghdam, H.** 2011. Efficacy of Bt transgenic sugar beet lines expressing *cryIAb* gene against *Spodoptera littoralis* Boisd. (Lepidoptera: Noctuidae), *Journal of the Entomological Research Society*, 13(1): 61-69.
 15. Nemati, Z., **Ranjbar Aghdam, H.**, Askarianzadeh, A. and Abbasipour, H. 2014.
 16. *carnea*, using linear models, *Biocontrol in Plant Protection*, 1 (2): 75-89.
 17. Soltani Orangh, F., **Ranjbar Aghdam, H.**, Abbasipour, H., and Askarianzadeh, A. 2014. Effect of temperature on developmental rate of the pink stem borer, *Sesamia cretica* immature stages, *Journal of Insect Science (USA)*, 14(197): DOI: 10.1093 /jisesa/ieu 059.
 18. Movahedi, M., Nouri Ghanbalani, Gh., **Ranjbar Aghdam, H.** and Imani, S. 2014. Evaluating the Efficiency of *Trichogramma pintoii* and *Bacillus thuringiensis* Var. *Kurstaki* on Corn Stem Borer, *Ostrinia nubilalis*) Lepidoptera: Pyralidae), in Corn Fields of Moghan Plain, *Bulletin of Environment, Pharmacology and Life Sciences*, 3: 202-205.
 19. **Ranjbar Aghdam, H.** 2015. Are pheromone traps applicable to forecast an insect pest phenology? A case study on codling moth, *Journal of Crop Protection*, 4 (1): 121-130.
 20. Mohasesian, E., **Ranjbar Aghdam, H.** and Pakyari, H. 2015. Temperature-dependent functional response of mealybug destroyer, *Cryptoleamus montrouzieri* on citrus mealybug, *Planococcus citri*, *Biocontrol in Plant Protection*, 2 (2): 1-11.
 21. **Ranjbar Aghdam, H.** and Attaran, M. 2015. Biological control of the codling moth by *Trichogramma embryophagum* based on Degree-Hours

- forecasting model, *Biological Control of Pests & Plant Diseases*, 3 (2): 87-96.
22. Soltani Orang, F., **Ranjbar Aghdam, H.**, Abbasipour, H. and Askarianzadeh, A. 2015. Estimation of Lower Temperature Threshold and Thermal Requirements for Development of *Sesamia cretica* (Lep., Noctuidae) Using "Degree-days" and "Ikemoto and Takai" Linear Models, *Journal of Applied Researches in Plant Protection*, 3(2): 45-55.
 23. **Ranjbar Aghdam, H.**, A. Yousefi Porshokouh, and Sedighi, L.. 2015. Temperature-dependent life table parameters of *Galleria mellonella* (L.) (Lepidoptera: Pyralidae), *Journal of Crop Protection*, 4 (Supplementary): 727-738.
 24. Akbarzadeh Shoukat, Gh., Safaralizadeh, M., **Ranjbar Aghdam, H.**, Aramidah, Sh. 2015. Evaluation of the efficacy of some biological insecticides for controlling damage and conserving the parasitoids of grape berry moth, *Lobesia botrana* (Lepidoptera: Tortricidae) in Urmia vineyards, *Biocontrol in Plant Protection*, 3 (2): 97-108.
 25. **Ranjbar Aghdam, H.**, M. Attaran. 2015. Collecting, identifying and selecting a native strain of egg parasitoid wasps, *Trichogramma* spp. for biological control of codling moth, *Cydia pomonella* in Damavand region, *Biological Control of Pests and Plant Diseases*, 46 (1): 1-8.
 26. Mortazavi Malekshah, S.A., **Ranjbar Aghdam, H.**, Khalghani, J. and Rezapanah, M. 2015. Effect of temperature on life table parameters of *Cryptolaemus montrouzieri* Mulsant feeding on citrus mealybug, *Planococcus citri* (Risso), *Journal of Applied Researches in Plant Protection*, 4 (2): 145-160.
 27. Sedighi, L., **Ranjbar Aghdam, H.**, Imani, S. and Shojaei, M. 2016. Comparative demography of *Sesamia cretica* Lederer (Lepidoptera: Noctuidae) on its two the most important natural hosts, maize and sugarcane, *Journal of Agricultural Science and Technology (JAST)*, 18: 1807-1818.
 28. Mohasesian, E., **Ranjbar Aghdam, H.** and Sedighi, L. 2016. Temperature- dependent mutual interference of adult mealybug destroyer, *Cryptolaemus montrouzieri*, feeding on citrus mealybug, *Biological Control of Pests and Plant Diseases*, 5 (1): 59-66.
 29. Sedighi, L., **Ranjbar Aghdam, H.**, Imani, S. and Shojaei, M. 2016. Study on the effect of natural and artificial diets on pupal stage of corn stem borer, *Sesamia cretica* Lederer in comparison with wild population, *Journal of Entomological Research*, Accepted, in press.

Some of conference papers:

1. Ranjbar Aghdam, H., K. Kamali and M. Daniali, 2000. Possibility of *In vivo* Rearing and Host Preference of Pink Stem Borer Egg Parasitoid, *Platytenomus hylas* Nixon (Hymenoptera: Scelionidae). Proceeding of the 14th Iranian Plant Protection Congress, Isfahan University of Technology, Iran.
2. Ranjbar Aghdam, H., K. Kamali and M. Daniali, 2000. Evaluation of Flying Radius of Laboratory Colonies of *Platytenomus hylas* Nixon (Hymenoptera: Scelionidae) in Biological Control Program of *Sesamia* spp. in Field Condition of Ahwaz. Proceeding of the 14th Iranian Plant Protection Congress, Isfahan University of Technology, Iran.
3. Ranjbar Aghdam, H. and G. Nouri ghanbalani, 2002. Comparison of Effectiveness of Some Pesticides (Chemical, Microbial and Botanical) against Colorado Potato Beetle. Proceeding of the 15th Iranian Plant Protection Congress, Razi University of Kermanshah, Iran.
4. Ranjbar Aghdam, H. and G. Nouri-Ghanbalani, 2002. Comparison of Effectiveness of Some Pesticides (Chemical, Microbial and Botanical) against Colorado Potato Beetle. Proceeding of the 15th Iranian Plant Protection Congress, Razi University of Kermanshah, Iran.
5. Ranjbar Aghdam, H. 2004. Investigation on the Effect of Thiocloprid for control of the Colorado potato beetle (Coleoptera: Chrysomelidae). Proceeding of the 16th Iranian Plant Protection Congress, University of Tabriz, Iran.
6. Ranjbar Aghdam, H. 2006. First report of Entomopathogenic nematode of the Colorado potato beetle, *Hexamermis* sp. (Nematoda: Mermitidae), from Iran. Proceeding of the 17th Iranian Plant Protection Congress, Campus of Agriculture and Natural Resources, University of Tehran, Iran.
7. Ranjbar Aghdam., H., Fathipour, Y., Radjabi, Gh. and Rezapanah, M. 2008. Thermal constant and zero developmental temperature of immature stages of the codling moth (Lepidoptera: Tortricidae) using the common and Ikemoto & Takai linear models, Proceeding of the 18th Iranian Plant Protection Congress, University of Bu-Ali Sina, Hamedan, Iran.
8. Ranjbar Aghdam., H., Fathipour, Y., Radjabi, Gh. and Rezapanah, M. 2008. Effect of temperature on life table parameters of the codling moth (Lepidoptera: Tortricidae) in laboratory conditions, Proceeding of the

18th Iranian Plant Protection Congress, University of Bu-Ali Sina, Hamedan, Iran.

9. Ranjbar Aghdam, H., Marzban, R. 2011. A Review on the Process of Microbial Pesticides Registration in Iran and Some of the other Countries, Proceeding of the Biological Control Development Congress in Iran, Iranian Research Institute of Plant Protection, Tehran, Iran.
10. Ranjbar Aghdam, H. 2012. A Review on forecasting methods for the arthropod pests and determination a novel forecasting technique based on temperature-dependent development models, Proceeding the first national congress of monitoring and forecasting in plant protection, Borujerd Agriculture and Natural Resources Research station, Borujerd, Iran.
11. Ranjbar Aghdam, H., Sedighi, L., and Aredestani Rostami, H. 2014. The effect of different host plants on functional response of the acarophagous ladybird beetle, *Stethorus gilvifrons* (Coleoptera: Coccinellidae), 3rd Integrated Pest Management Conferences (IPMC), Kerman, Iran.
12. Ranjbar Aghdam, H., Sedighi, L., and Aredestani Rostami, H. 2014. Efficacy of two types of pheromone traps for the codling moth, *Cydia pomonella* (Lepidoptera: Tortricidae) population monitoring, 3rd Integrated Pest Management Conferences (IPMC), Kerman, Iran.
13. Movahedi, M., Ranjbar Aghdam, H., Imani, S., and Khalighi Sigaroodi, F. 2014. Evaluation antifeedant effect of the methanol extract of *Tanacetum vulgare* against the larvae of *Helicoverpa armigera* in laboratory condition, 3rd Integrated Pest Management Conferences (IPMC), Kerman, Iran.
14. Movahedi, M., Ranjbar Aghdam, H., Imani, S., and Khalighi Sigaroodi, F. 2014. Effect of methanol extract of *Tanacetum vulgare* on reproduction of *Tribolium confusum* in laboratory condition, 3rd Integrated Pest Management Conferences (IPMC), Kerman, Iran.
15. Sedighi, L., Ranjbar Aghdam, H., Imani, S. and Shojaei, M. 2015. Estimation of the life table parameters of maize and sugarcane stem borer, *Sesamia cretica* Lederer by using two sex life table analysis procedure, 1st Iranian International Congress of Entomology, 29-31 August, Tehran, Iran.
16. Sedighi, L., Ranjbar Aghdam, H., Imani, S. and Shojaei, M. 2015. Study on the effect of natural and artificial diets on pupal stage of corn stem borer, *Sesamia cretica* Lederer in comparison with wild population, 1st

- Iranian International Congress of Entomology, 29-31 August, Tehran, Iran.
17. Akbarzadeh Shoukat, Gh., Safaralizadeh, M., Ranjbar Aghdam, H., Aramidah, Sh. 2015. Introduction parasitoid wasps belonging to the superfamily, Chalcidoidea on grape berry moth, *Lobesia botrana* (Denis & Schiffermüller) from Urmia vineyards, 1st Iranian International Congress of Entomology, 29-31 August, Tehran, Iran.
 18. Akbarzadeh Shoukat, Gh., Safaralizadeh, M., Ranjbar Aghdam, H., Aramidah, Sh. 2015. Study on the parasitoid wasps belonging to the superfamily, Ichneumonoidea on grape berry moth, *Lobesia botrana* (Denis & Schiffermüller) in Urmia vineyards, 1st Iranian International Congress of Entomology, 29-31 August, Tehran, Iran.
 19. Akbarzadeh Shoukat, Gh., Safaralizadeh, M., Ranjbar Aghdam, H., Aramidah, Sh. 2015. Evaluation the effect of some low-risk insecticides for controlling damage and conservation of natural enemies of the first generation of grape berry moth, *Lobesia botrana* (Den. & Schiff.) in the vineyards of Urmia, 1st Iranian International Congress of Entomology, 29-31 August, Tehran, Iran.

Theses supervised:

- 1- Akbarzadeh Shoukat, Gh., The grape berry moth, *Lobesia botrana* Denis & Schiffermüller, 1776 management based on a temperature-dependent phenological forecasting model without using chemical pesticides, **Ph.D. dissertation**, University of Urmia, Iran.
- 2- Ghasemi, M., Thermal indices of different populations of the codling moth, *Cydia pomonella* L., **M.Sc. thesis**, University of Urmia, Iran.
- 3- Ghorbanian, S., Biology and efficiency of *Cryptolaemus montrouzieri* Muls. (Coleoptera: Coccinellidae) against *Planococcus citri* (Risso) (Homoptera: Pseudococcidae) on *Coleus blumei* (Benth) (Labiatae), **M.Sc. thesis**, University of Tehran, Aboureyhan, Tehran, Iran.
- 4- Jafari, M., Evaluation of temperature-dependent developmental models of *Stethorus gilvifrons* and study on the effect of different hosts on its demographic parameters, Islamic Azad University, **Ph.D. dissertation**, Arak, Iran.

- 5- Mahmoudian, R., The effect of commonly cultivated rice cultivars on demographic parameters of native species of *Trichogramma* sp. (Hymenoptera: Trichogrammatidae) in Mazandaran rice paddies, **M.Sc. thesis**, Islamic Azad University, Tehran, Iran.
- 6- Mohasesian, E., Temperature-dependent foraging behavior of *Cryptolamus montrouzieri* in biological control of *Planococcus citri*, **M.Sc. thesis**, Islamic Azad University, Takestan, Iran.
- 7- Mortazavi, S. A., Comparative demography of *Cryptolaemus montrouzieri* Mulsant (Coleoptera: Coccinellidae) on *Planococcus citri* (Homoptera: Pseudococcidae) at constant temperatures, **M.Sc. thesis**, Islamic Azad University, Tehran, Iran.
- 8- Movahedi, M., Evaluation the possibility of using extractions of *Tanacetum vulgare* L. and *Rosmarinus officinalis* L. in order to control of the cotton boll worm, *Helicoverpa armigera* Hubner, **Ph.D. dissertation**, Islamic Azad University, Tehran, Iran.
- 9- Nemati, Z. Determination of Temperature indices and developmental models of *Chrysoperla carnea* under laboratory conditions, **M.Sc. thesis**, University of Shahed, Tehran, Iran.
- 10- Sedighi, L., Study on the effect of semi-artificial and natural diets on demographic parameters of the sugarcane stem borers, *Sesamia* spp., host of the parasitoid wasp, *Telenomus busseolae*, **Ph.D. dissertation**, Islamic Azad University, Tehran, Iran.
- 11- Soltani Orang, F. Determination of Degree-Day and thermal requirements of *Sesamia cretica* Led. (Lep.: Noctuidae) in Rey region, **M.Sc. thesis**, University of Shahed, Tehran, Iran.