

CURRICULUM VITAE



Personal information

Name: M. Amin JALALI

Date and place of birth: 30.5.1974 – IRAN

Nationality: Iranian – married with two children

Position: faculty staff (Professor, full)

Affiliation: Department of Crop Protection; Faculty of Agriculture; Vali-e-Asr University of Rafsanjan; Rafsanjan; IRAN

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University degrees

1993-1997: B.Sc. University of Shiraz, Iran. Agricultural Engineering; Plant Protection

1998-2001: M.Sc. University of Shiraz, Iran. Master in Agricultural Entomology

2004-2009: Ph.D. University of Ghent, Belgium. Doctor (Ph.D.) in Applied Biological Sciences.

Awards and scholarships

Ph.D. scholarship by the Ministry of Science, Research and Technology of Iran (as a top three student award in Agricultural Entomology), 2004-2009.

Awarding a 12 months visiting scholar opportunity from Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran. Kansas State University, KS, USA (2016-2017).

Distinctions and invited positions

Vali-e-Asr University of Rafsanjan:

2018-2020: First top researcher (Part: International collaborations)

Rafsanjan University of Medical Sciences – Rafsanjan -IRAN

(Invited positions):

2017-01-27 to present: | Founding-board member (Pistachio safety research center

2017-07-04 to present: Associate Editor- Pistachio and Health Journal

2019-03-11 to 2022-03-10: Member of the Research Council – Research Institute of Basic Medical Sciences

Membership in scientific societies:

Member of Entomological Society of Iran

Member of Entomological Society of America

Research interests:

My work primarily concerns the study of predatory lady beetles (coccinellidae) as major biocontrol agents of the common pistachio psylla, *Agonoscena pistaciae* Burckhardt and Lauterer (Hemiptera: Psylloidea: Aphalaridae), a serious pest of the cultivated pistachio trees (*Pistacia vera* Linnaeus). I am also actively involved in a program for propagation of the scelionid and encyrtid egg parasitoids and artificial mass rearing of their hosts, green stink bugs (Hemiptera: Pentatomidae).

Peer reviewed papers:

Ranjbar F, Michaud JP, **Jalali MA**, Ziaaddini M (2022) Dietary history modifies the innate responses of lady beetles (Coleoptera: Coccinellidae) to odors of their prey-infested host plants. *Biological Control* 175: 105050

- Asadi H, Ziaaddini M, **Jalali MA**, Mohammadi-Khoramabadi A (2022) The influence of geographic distance on life-history traits of the carob moth, *Ectomyelois ceratoniae* (Zeller) (Lepidoptera: Pyralidae). *International Journal of Tropical Insect Science* 42: 3839-3846.
- Gholamalizade Z, Ziaaddini M, **Jalali MA** (2022) Female Foundresses Egg Parasitoids Deprived of Host: Do Age and Mating Status Affect Reproductive Attributes of Three Egg Parasitoids (Hymenoptera: Scelionidae). *Journal of Agricultural Science and Technology* 24(4): 825-836.
- Ranjbar F, **Jalali MA**, Ziaaddini M, GholamAlizade Z, Talamas E (2021) Stink bug egg parasitoids (Scelionidae, Hymenoptera) associated with pistachio in Iran and description of a new species: *Trissolcus darreh* Talamas *Journal of Hymenoptera Research* 87 291-308
- Gharaei AM, Ziaaddini M, **Jalali MA**, Mirhosseini MA (2021) Effect of host plant on biology and reproduction parameters of Asian citrus psyllid, *Diaphorina citri* Kuwayama (Hemiptera: Psyllidae) at steady temperature *Journal of Agricultural Science and Technology* 23 (6): 1297-1307
- Ranjbar F, Reitz S, Esmaeili Sardary A, **Jalali MA**, Ziaaddini M, Izadi H (2021) Assessment of Toxicity Risk of Selected Insecticides Used in Pistachio Ecosystem on Two Egg Parasitoids (Hymenoptera: Scelionidae) of Stink Bugs (Hemiptera: Pentatomidae) *Journal of Economic Entomology* 114 (4): 1588-1596
- Ranjbar F, Reitz S, **Jalali MA**, Ziaaddini M, Izadi H (2021) Lethal and Sublethal Effects of Two Commercial Insecticides on Egg Parasitoids (Hymenoptera: Scelionidae) of Green Stink Bugs (Hem: Pentatomidae) *Journal of Economic Entomology* 114 (1): 33-39
- Ranjbar F, Michaud JP, **Jalali MA**, Ziaaddini M (2020) Intraguild predation between two lady beetle predators is more sensitive to density than species of extraguild prey *BioControl* 65 (6): 713-725
- Jalali MA**, Ranjbar F, Ziaaddini Dashtekhaki M, Forouzan F, (2020) Functional response of egg parasitoids, *Psix saccharicola* and *Trissolcus agriope* (Hymenoptera: Scelionidae) on cold-stored eggs of *Acrosternum arabicum* (Hemiptera: Pentatomidae) *Biological Control of Pests and Plant Diseases* 9 (1): 36-45
- Gharaei AM, Ziaaddini M, Frérot B, Ebrahimi SN, **Jalali MA**, Reddy GVP (2020) Identification and evaluation of four cucurbitaceous host plant volatiles attractive to *Diaphania indica* (Saunders)(Lep.: Pyralidae) *Chemoecology* 30 (4): 173-182
- Gharaei AM, Ziaaddini M, **Jalali MA**, Reddy GVP (2020) Modulation of Reproductive Behavior of *Diaphania indica* (Lepidoptera: Pyralidae) by Preferred and Non-preferred Host Plants *Journal of Insect Behavior* 33 (2): 105-115

- Ranjbar S, **Jalali MA**, Khanamani Falahati-pour S, Sedaghati E, Malekzadeh K, Ziaaddini M (2019) Assessment of Three Common Methods for DNA Extraction in *Trissolcus* Sp. Egg Parasitoid Wasp of Green Stink Bugs Pistachio and Health Journal 2 (2): 9-16
- Gharaei AM, Ziaaddini M, **Jalali MA**, Frerot B (2019) Oviposition preference and olfactory response of *Diaphania indica* (Lepidoptera: Pyralidae) to volatiles of uninfested and infested cucurbitaceous host plants European Journal of Entomology 116: 392-401
- Jalali MA**, Mehrnejad MR, Ellsworth PC (2019) Inferring Biological Control Potential of Adult Predatory Coccinellids Using Life History Traits and Putative Habitat Preference. Journal of Economic Entomology 112 (5): 2116–2120
- Sakaki S, **Jalali MA**, Kamali H, Nedvěd O (2019) Effect of low-temperature storage on the life history parameters and voracity of *Hippodamia variegata* (Coleoptera: Coccinellidae). European Journal of Entomology 116:10-15.
- Jalali MA**, Reitz S, Mehrnejad MR, Ranjbar F, Ziaaddini M (2019) Food utilization, development, and reproductive performance of *Coccinella septempunctata* L. feeding on an aphid or psylla prey species. Journal of Economic Entomology 112 (2): 571-576.
- Jalali MA**, Mehrnejad MR, Ellsworth PC, Ranjbar F, Ziaaddini M (2018) Predator performance: inferring predator switching behaviors based on nutritional indices in a coccinellid-psylla-aphid system. Pest Management science 74 (12): 2851-2857.
- Jalali MA**, Sakaki S, Ziaaddini M, Daane KM (2018). Temperature dependent development of *Oenopia conglobata* (L.) (Col.: Coccinellidae) fed on *Aphis gossypii* (Glover) (Hem.: Aphididae). International Journal of Tropical Insect Science 38 (4): 410-417.
- Forouzan F, **Jalali MA**, Ziaaddini M, Hashemi-Rad H (2018) Effect of Cold Storage on Biological Traits of *Psix saccharicola* (Hymenoptera: Platygasteridae), an Egg Parasitoid of *Acrosternum arabicum* (Hemiptera: Pentatomidae). Journal of Economic Entomology 111 (3): 1144-1150.
- Mohammadpour M, **Jalali MA**, Ziaaddini M, Hashemi-Rad H (2018) Some biological characteristics of *Ooencyrtus pityocampae* Mercet parasitoid of *Brachynema signatum* Jakovlev under laboratory conditions. Pistachio and Health Journal 1 (1): 20-25.
- Moghbeli Gharaei A; Ziaaddini M; **Jalali MA** (2018) Olfactory responses of *Diaphorina citri* Kuwayama (Hem.: Psyllidae) to chemical compounds Gamma-butyrolactone and Methyl salicylate in laboratory conditions (in Persian) Journal of Plant Protection 41 (1): 11-22.
- Jalali MA**, Ziaaddini M (2017) Effects of host plant morphological features on the functional response of *Adalia bipunctata* (Coleoptera: Coccinellidae) to *Myzus persicae* (Hemiptera: Aphididae) International Journal of Pest Management 63 (4): 309-315.
- Mohammadpour M, Ziaaddini M, **Jalali MA**, Hashemirad H, Mohammadi-khoramabadi A (2016) Egg parasitoids of the pistachio green stink bug, *Brachynema germari*

- (Hemiptera: Pentatomidae) in Kerman province, Iran. *Zoology and Ecology* 26 (1):28-34.
- Pourkhatoon S, Ziaaddini M, Alizadeh A, **Jalali MA**, Ebrahimi M (2016) Biological Characteristic of *Brachynema germari* (Hemiptera: Pentatomidae): Comparative Study of Composite and Natural Diet. *Journal of Economic Entomology* 109 (3):1273-1282.
- Mirhosseini MA, Hosseini MR, **Jalali MA**. (2015) Effects of diet on development and reproductive fitness of two predatory coccinellids (Coleoptera: Coccinellidae). *European Journal of Entomology* 112 (3):446-452.
- Mohammadpour M, Ziaaddini M, **Jalali MA**, Hashemi-Rad H, Lotfalizadeh H (2015) Identification of the egg parasitoids of green pistachio stink bug, and the effect of diet on adult longevity of the two parasitoids, *Ooencyrtus pityocampae* (Mercet) and *Trissolcus agriope* (Kozlov and Lê) (in Persian) *Journal of Entomological Research* 7(3): 277-287.
- Jalali MA**, Mehrnejad MR, Kontodimas DC (2014) Temperature-Dependent Development of the Five Psyllophagous Ladybird Predators of *Agonoscena pistaciae* (Hemiptera: Psyllidae). *Annals of the Entomological Society of America* 107: 445-452.
- Mirhosseini M, **Michaud JP**, **Jalali MA**, Ziaaddini M (2014) Paternal effects correlate with female reproductive stimulation in the polyandrous ladybird *Cheilomenes sexmaculata*. *Bulletin of entomological research* 104: 480-485.
- Mohammadpour M, **Jalali MA**, **Michaud JP**, Ziaaddini M, Hashemirad H (2014) Multiparasitism of stink bug eggs: competitive interactions between *Ooencyrtus pityocampae* and *Trissolcus agriope*. *BioControl* 59:279-286.
- Amirzade N, Izadi H, **Jalali MA**, Zohdi H. (2014) Evaluation of three neonicotinoid insecticides against the common pistachio psylla, *Agonoscena pistaciae*, and its natural enemies. *Journal of Insect Science* 14:35.
- Moghbeli Gharaei A., Ziaaddini M., **Jalali MA**, **Michaud JP** (2014) Sex-specific responses of Asian citrus psyllid to volatiles of conspecific and host-plant origin. *Journal of Applied Entomology* 138: 500-509.
- Ziaaddini M, Lotfalizadeh H, Mohammadi-khoramabadi A, **Jalali MA** (2014) First report of *Dibrachys lignicola* (Hym.: Pteromalidae) from Iran (in Persian). *Journal of Entomological Society of Iran* 34 (1): 97-98.
- Moghbeli Gharaei A, Ziaaddini M, **Jalali MA** (2013). Role of volatile compounds emitted from the first and second trophic levels in host finding behavior of *Tamarixia radiata* (Hym.: Eulophidae) (in Persian). *Journal of Entomological Society of Iran* 33 (3): 45-56.
- Moghbeli Gharaei A, Ziaaddini M, **Jalali MA** Lotfalizadeh H (2013). Report of *Psyllaephagus procerus* Mercet (Hym.: Encyrtidae) as parasitoid of the *Diaphorina citri* (Hem.: Psyllidae) from Iran (in Persian). *Journal of Applied Entomology and Phytopathology* 80 (2): 185-186.

- Jalali MA**, Michaud JP (2012) Aphid-plant interactions affect the suitability of *Myzus* spp. as prey for the two spot ladybird, *Adalia bipunctata* (Coleoptera: Coccinellidae). *European Journal of Entomology* 109: 345-352.
- Izadi H, Sarnevesht M, Sadeghi R, Mahdian K, **Jalali MA** (2012) Toxic effects of pyriproxyfen, neemarin, acetamiprid and *Ferula assafoetida* essential oil on the common pistachio psylla, *Agonoscena pistaciae* *Archives of Phytopathology and Plant Protection* 45 (18): 2236-2242.
- Mehrnejad M, **Jalali MA**, Mirzaei R (2011) Abundance and biological parameters of psyllophagous coccinellids in pistachio orchards. *Journal of Applied Entomology* 135: 673-681.
- Jalali MA**, Tirry L, A, De Clercq P (2010) Effect of temperature on the functional response of *Adalia bipunctata* to *Myzus persicae*. *BioControl* 55: 261-269.
- Jalali MA**, Tirry L, Arbab A, De Clercq P (2010) Temperature-Dependent Development of the Two-Spotted Ladybeetle, *Adalia bipunctata*, on the Green Peach Aphid, *Myzus persicae*, and a Facitious Food Under Constant Temperatures. *Journal of Insect Science* 10:124.
- Jalali MA**, Tirry L, De Clercq P (2009) Effects of food and temperature on development, fecundity and life-table parameters of *Adalia bipunctata* (Coleoptera: Coccinellidae). *Journal of Applied Entomology* 133: 615-625.
- Jalali MA**, Tirry L, De Clercq P (2009) Food consumption and immature growth of *Adalia bipunctata* (Coleoptera: Coccinellidae) on a natural prey and a factitious food. *European Journal of Entomology* 106: 193-198.
- Jalali MA**, Van Leeuwen T, Tirry L, De Clercq P (2009) Toxicity of selected insecticides to the two-spot ladybird *Adalia bipunctata*. *Phytoparasitica* 37: 323-326.
- Mehrnejad MR, **Jalali MA** (2004) Life history parameters of the coccinellid beetle, *Oenopia conglobata contaminata*, an important predator of the common pistachio psylla, *Agonoscena pistaciae* (Hemiptera: Psylloidea). *Biocontrol Science and Technology* 14: 701-711.