

# Curriculum Vitae



**NAME & SURNAME:** Maryam Zolfaghari

**ADDRESS, SUBURB, STATE, POSTAL CODE:** Department of Horticulture, Faculty of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran, Postcode: 61357-43311.

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## PROFESSIONAL PROFILE:

Assistant Professor of Medicinal Plant in Shahid Chamran University (SCU) of Ahvaz, Iran

## EDUCATION BACKGROUND:

**Ph.D.:** Medicinal Plant (2012), Tehran University, Tehran, Iran.

### Thesis title:

The effect of bio-fertilizers and chemical fertilizer on the growth, yield and phytochemical content of *Ocimum basilicum*

**M.Sc.:** Physiology and Breeding of Ornamental Plant (2005), Tehran University, Tehran, Iran.

### Dissertation title:

Phosphorous Feeding of Roses plant through Iranian Apatite In Zeoponic Culture

**B.S.:** Horticulture Science (2003), Ferdowsi University, Mashhad, Iran

## TEACHING AND TRAINING EXPERINCE:

- Identification and introduction of Iranian medicinal plants For MSc. student.

- Breeding Method in medicinal plant for MSc. Student.
- Medicinal Plant physiology for BSc. student.
- Horticulture science for BSc. Student.
- Computer and related software in Horticultural science for BSc. Student.

## INTERESTS AND RESEARCH FIELDS:

- Production and domestication of medicinal plants
- Organic cultivation of medicinal plants
- Processing and clinical studies on medicinal plants
- Eco-physiology of medicinal plants
- Post harvesting of medicinal plants

## RESEARCH ACTIVITIES:

### PUBLICATIONS:

- Boveiri Deh Sheikh, P., Mahmoodi Soirestani, M., Zolfaghari, M., Enayati Zamir, N. 2021. The Effects of Biological, Chemical Fertilizers and Humic Acid on some Microbial Parameters, Elements and Oil Quantity and Quality of Catnip (*Nepeta cataria* L.). Journal of Agroecology. 13(1). 73-88.
- Boveiri Deh Sheikh, A., Mahmoodi Soirestani, M., Zolfaghari, M., Enayati Zamir, N. 2020. Changes in soil microbial activity, essential oil quantity, and quality of Thai basil as response to biofertilizers and humic acid. Journal of Cleaner Production. 256. 1 – 10.
- Khakpoor, A., Zolfaghari, M., Sorkheh, K. 2020. A study on some secondary metabolites of *Glycyrrhiza glabra* L. in autumn and spring conditions in Khuzestan province. Iranian Journal of Medicinal and Aromatic Plants. 35(6). 991-1001.
- Khakpoor, A., Zolfaghari, M., Sorkheh, K. 2019. Bioinformatics Study and Investigation of the Expression Pattern of Several Important Genes Involved in Glycyrrhizin Synthesis of *Glycyrrhiza glabra* L. in Autumn and Spring Seasons. Plant Genetic Researches. 6(1). 55-68.
- Sorkheh, K., Zolfaghari, M., Ercisli, S. 2018. Reliability Authentication of *Glycyrrhiza glabra* L. Populations from South Iran Using SSR and SNP-Based Markers. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences. 89(4). 1283–1294.
- Bagherifar, S., Mahmoudi sourestani, M., Zolfaghari, M., Mottaghipisheh, J., Péter

- Zomborszki, Z., Csupor Dezso. 2019. Variation of Chemical Constituents and Antiradical Capacity of Nine *Ferulago angulata* Populations from Iran. CHEMISTRY and BIODIVERSITY. , 10. 2 – 11.
- Badvi, M., Mahmoudi sourestani, M., Zolfaghari, M., Ashraf Hafari, A.2019. The comparison on seed and oil yields, oil quantity and quality of Flaxseed (*Linum usitatissimum* L.) cultivars and accessions. Iranian Journal of Horticultural Science. 49 (4). 993-1002.
  - Bagherifar, S., Mahmoudi sourestani, M., Zolfaghari, M., Mottaghipisheh, J., Péter Zomborszki, Z., Csupor Dezso. 2019. Chemodiversity of Volatile Oil Contents of Various Parts of 10 Iranian *Prangos ferulacea* Accessions, With Analysis of Antiradical Potential. NATURAL PRODUCT COMMUNICATIONS. 5 .1– 9.
  - Chegeni, Z., Zolfaghari, M., Sedighi Dehkordi, F., Mahmoudi sourestani, M. 2018. The Effect of Mycorrhizal Fungi, PGPRs and Chemical Fertilizer on Yield and Essential Oil Content of Dill (*Anethum graveolens* L.) Seed. Agricultural Science and Sustainable Production. 28(4). 93-104.
  - Hormozi nejad, E., Zolfaghari, M., Mahmoodi Soirestani, M., Enayati Zamir, N. 2018.Effects of plant growth promoting rhizobacteria and chemical fertilizer on growth, yield, flowering, physiological properties, and total phenolic content of *Calendula officinalis* L. Iranian Journal of Medicinal and Aromatic Plants. 34 (4). 684-696.
  - Momeni Monfared, M., Mahmoodi Sourestani, M. Zolfaghari, M., Malekzadeh, M. 2018.Evaluation of quantitative and qualitative characteristics of essential oil of some Basil (*Ocimum basilicum*) accessions in Ahvaz weather conditions. Iranian Journal of Medicinal and Aromatic Plants. 34 (2). 286-297.
  - Bahmanpour, H., Sajadiye, S. M., Sheikhdavoodi, M. J., Zolfaghari, M. 2017. The Effect of Temperature and Drying Method on Drying Time and Color Quality of Mint. Journal of Agricultural Machinery.7 (2). 415-426.
  - Boveiri Deh Sheikh, P., Mahmoodi Soirestani, M., Zolfaghari, M., Enayati Zamir, N. 2017.The study on the effect of biological and chemical fertilizers and humic acid on the growth, physiological characteristics and essential oil content of catnip (*Nepeta cataria* L.). Journal of plant production research. 24 (2).61-76. [in Persian]
  - Boveiri Deh Sheikh, A., Mahmoodi Soirestani, M., Zolfaghari, M., Enayati Zamir, N.2017. The Effect of Plant Growth Promoting Rhizobacteria, Chemical Fertilizer and Humic Acid on Morpho-physiological characteristics of Basil (*Ocimum basilicum* var. thyriflorum). Agricultural Science and Sustainable Production. 26 (4). 129-142. [in Persian]
  - Sajadiye, S. M., Zolfaghari, M. 2016. Simulation of in-line versus staggered arrays of vented pallet boxes for assessing cooling performance of orange in cool storage. Applied

Thermal Engineering. 115 (5). 337-349.

- Zolfaghari, M., Nazeri, V., Sefidkon, F., Rejali, F. 2015. The effect of arbuscular mycorrhizal fungi on plant growth and essential oil content of *Ocimum basilicum* L. Plant Production. 37 (4). 47-56.
- Zolfaghari, M., Nazeri, V., Sefidkon, F., Rejali, F. 2012. Effect of arbuscular mycorrhizal fungi on plant growth and essential oil content and composition of *Ocimum basilicum* L. Iranian Journal of Plant Physiology. 3 (2). 643-650.
- Seyed Majid Sajadiye, S.M., Ahmadi, H., Zolfaghari, M., Mohtasebi, S.S., Mostofi, Y., Raja, A. 2013. A Multi-Scale Three-Dimensional CFD Model of a Full Loaded Cool Storage. International Journal of Food Engineering. 9(2). 163-178.

#### CONFERENCE PRESENTATIONS:

- Khakpoor, A., Zolfaghari, M., Sorkheh, K. The effect of rhizome diameter and different environment of extract content and phenols and flavonoids in *Glycyrrhiza glabra* L. The 9th National conference of Medical Herbs and Stable Agriculture. March 5- 6. 2019. Hamedan. Iran.
- Khakpoor, A., Zolfaghari, M., Sorkheh, K. Investigation of gene expression of Squalene synthase (SQS) in indigenous licorice of Iran (*Glycyrrhiza glabra*) during the spring and autumn seasons. Third International and Fifteenth Iranian Genetics Congress. May 13, to May 15, 2018. Tehran .Iran.
- Savari, N., Zolfaghari, M., Sorkheh, K. Investigation of arginase gene expression in different tissues of *Citrullus colocynthis* L. Third International and Fifteenth Iranian Genetics Congress. May 13, to May 15, 2018. Tehran .Iran.
- Bagherifar, S., Mahmoudi sourestani, M., Zolfaghari, M. Antioxidant Potential and Secondary Metabolites of *Ferulago Angulata* (Schlecht) Boiss at Various Habitats, 7 th National Congress on Medicinal Plants. May 12, 2018. Shiraz. Iran.
- Momeni Monfared, M., Mahmoodi Sourestani, M. Zolfaghari, M., Malekzadeh, M. The comparison of morphological characteristics, photosynthetic pigments and essential oil yield of eight green and purple Basil (*Ocimum basilicum*). 4th national conference on applied research in agriculture science. December 9, 2016 Tehran. Iran.
- Momeni Monfared, M., Mahmoodi Sourestani, M. Zolfaghari, M., Malekzadeh, M. The comparison of growth characteristics, photosynthetic pigments and aerial part yield of ten basil accessions (*Ocimum basilicum*) under Ahvaz weather conditions. 4th national conference on applied research in agriculture science. December 9, 2016 Tehran. Iran.

- Boveiri Deh Sheikh, P., Mahmoodi Soirestani, M., Zolfaghari, M., Enayati Zamir, N. The effect of biofertilizer, chemical fertilizer and humic acid on essential oil content, yield & composition of catnip (*Nepeta cataria*). 5th National Congress on Medicinal Plants May 18- 19, 2016. Isfahan. Iran.
- Boveiri Deh Sheikh, A., Mahmoodi Soirestani, M., Zolfaghari, M., Enayati Zamir, N. Effect of biofertilizers, chemical fertilizer and humic acid on essential oil content, yield and composition of basil (*Ocimum basilicum* var. *Thyrsiflora*). 5th National Congress on Medicinal Plants May 18- 19, 2016. Isfahan. Iran.
- Chegeni, Z., Zolfaghari, M., Sedighi Dehkordi, F., Mahmoudi sourestani, M. Biofertilizers compare to chemical on growth and yield of Dill (*Anethum graveolense*). The third international and the sixth national conference of medical herbs and stable agriculture. January 1, 2017. Hamedan. Iran.
- Tolideh, S., Zolfaghari, M., Sedighi Dehkordi, F., Mahmoudi sourestani, M. Effect of Mycorrhizal Fungi and Vermicompost on the growth parameters, phosphor and nitrogen element content of *Coriandrum sativum* L. 2nd National Conference on Herbs and Herbal Medicine. June 2, 2016. Tehran. Iran.
- Hormozi nejad, E., Zolfaghari, M., Mahmoodi Soirestani, M., Enayati Zamir, N. Effect of Plant Growth Promoting Rhizobacteria and Chemical Fertilizer on Growth and yield of *Calendula officinalis*. 2nd National Conference on Herbs and Herbal Medicine. June 2, 2016. . Tehran. Iran.
- Hormozi nejad, E., Zolfaghari, M., Mahmoodi Soirestani, M., Enayati Zamir, N. The effect of Plant Growth Promoting Rhizobacteria and chemical fertilizers on seed quantity and seed quality of *Calendula officinalis* L. The first national conference on new findings of Agricultural Sciences,environment and sustainable natural resources. August 4, 2016. Jiroft Kerman. Iran.
- Hormozi nejad, E., Tolideh, S., Zolfaghari, M. Allelopathic effect of alcoholic extract of *Eucalyptus camaldulensis* and *Ziziphus spinachristi* on germination of four weeds. 9th Congress of Iranian Horticultural Science. January 25-28, 2016. Ahvaz. Iran.
- Zolfaghari, M., Asgharzadeh, A. The effect of different species of Plant Growth Promoting Rhizobacteria on growth parameters, essential oil content and composition of *Ocimum basilicum*. 9th Congress of Iranian Horticultural Science. January 25-28, 2016. Ahvaz. Iran.
- Bahmanpour, H., Sajadiye, S. M., Sheikhdavoodi, M. J., Zolfaghari, M. The effect drying methods on essence content of mint (*Mentha spicata* L). 2nd National Conference on Herbs and Herbal Medicine. August 27- 28, 2015. Hamedan. Iran.
- Boveiri Deh Sheikh, A., Mahmoodi Soirestani, M., Zolfaghari, M., Enayati Zamir, N.

Effect of biofertilizers, chemical fertilizer and humic acid on physiological parameters of basil (*Ocimum basilicum* var. thrysiflora). 9th Congress of Iranian Horticultural Science. January 25-28, 2016. Ahvaz. Iran.

- Boveiri Deh Sheikh, P., Mahmoodi Soirestani, M., Zolfaghari, M., Enayati Zamir, N. Study of physiological response catnip to application of biological and chemical fertilizers and humic acid. 9th Congress of Iranian Horticultural Science. January 25-28, 2016. Ahvaz. Iran.
- Boveiri Deh Sheikh, A., Mahmoodi Soirestani, M., Zolfaghari, M., Enayati Zamir, N. Effect of biofertilizers, chemical fertilizer and humic acid on growth parameters of basil (*Ocimum basilicum* var. thrysiflora). 9th Congress of Iranian Horticultural Science. January 25-28, 2016. Ahvaz. Iran.
- Boveiri Deh Sheikh, P., Mahmoodi Soirestani, M., Zolfaghari, M., Enayati Zamir, N. The effect of biofertilizer chemical fertilizer and humic acid on growth parameters of catnip (*Nepeta cataria*). 9th Congress of Iranian Horticultural Science. January 25-28, 2016. Ahvaz. Iran.
- Bahmanpour, H., Sajadiye, S. M., Sheikhdavoodi, M. J., Zolfaghari, M. The comparison of drying rate of solar-cabinet and vacuum-infrared of mint (*Mentha spicata* L.). 3rd National Congress on Agricultural Sciences and Environmental Researches. August 13- 14, 2015. Hamedan. Iran.
- Badvi, M., Mahmoudi sourestani, M., Zolfaghari, M., Ashraf Hafari, A. Comparison of phonological phases, morphological traits and grain yield of some flax (*Linum usitatissimum* L.) genotypes. Medicinal Herbsand Stable Agriculture. August 23, 2014. . Hamedan. Iran.
- Badvi, M., Mahmoudi sourestani, M., Zolfaghari, M., Ashraf Hafari, A. Comparison of yield and yield components of some genotypes of flax (*Linum usitatissimum* L.) in Ahvaz conditions. Medicinal Herbsand Stable Agriculture. August 23, 2014. Hamedan. Iran.

### RESEARCH PROJECTS:

- Application of SSRs isolated from large-scale transcript sequences, SNP-based markers and bioinformatic tools for validating the authenticity of *Glycyrrhiza glabra* L. from South of Iran
- The effect of foliar application of Zinc Nano Chelate and Zinc Sulfate on morphological traits, oil percentage and yield of flax (*Linum usitatissimum* cv. Oleozon)
- Multi-Scale CFD simulation of Orange (*Citrus sinensis* L.) Heat transfer in a cool storage

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## LANGUAGES:

<b>PERSIAN:</b> Native
<b>ENGLISH:</b> Intermediate