



Sex: Male

Date of Birth: 1980

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Address: Department of Plant Production and Genetics Engineering, Faculty of Agriculture, Agricultural Sciences and Natural Resources University of Khuzestan, Mollasani, Iran.

RESEARCH INTERESTS

- Modeling Weed Seed Germination and Seedling Emergence
- Integrated weed management in crop
- Seed ecology
- Herbicide

POSITION

- **Associate Professor of weed science**, Department of Plant Production and Genetics Engineering, Faculty of Agriculture, Agricultural Sciences and Natural Resources University of Khuzestan, Mollasani, Iran.

EDUCATION:

- **University of Tehran, Iran.**
Ph.D. in weed science (2010-2015)

Thesis:

Evaluation of interaction between fertilizer rates and herbicide doseage on corn weeds control

Supervisor: Dr. Hamid Rahimian- Mashhadi

Advisors: Dr. Hasan Alizadeh

(M.Sc.)

- **University of Tehran, Iran.**
M.Sc. in weed science (2007-2010)
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(Ph.D.)

Thesis :

Evaluation of dormancy and germination model of wild oat and factors influencing on herbicides inefficiency on its control

Supervisor: Dr. Hamid Rahimian- Mashhadi

Advisors: Dr. Mostafa Oviesi and Dr. Reza Hamidi

B.Sc

Islamic Azad University, Arenjan, Iran.

B.Sc. in Crop Production

TEACHING

EXPERIENCES

- **Agricultural Sciences and Natural Resources University of Khuzestan, 2015-present:**

BSc: - Agronomy - Integrated Agricultural systems – Biology. Botany

MSc: Weed Eco-physiology- Herbicide Mode of action and application, Weed – crop interference, Toxicology

PhD: Modeling plant growth and development

WORK

EXPERIENCES

- **Associate Professor of weed science, 2015-present.** Department of Plant Production and Genetics Engineering, Faculty of Agriculture, Agricultural Sciences and Natural Resources University of Khuzestan, Mollasani, Iran.

JOURNAL PAPERS

1. Akbia, H., Elahifard, E., Siahpoosh, A., & **Zare, A.** (2020). Evaluating sowing method and soil applied herbicides on weed control and yield of sesame. *Journal of Crops Improvement*, 22(4), 543-556.
2. Barfi, F., Salehi Salmi, M., & **Zare, A.** (2022). Investigation of morphological and biochemical traits characteristics related to vase life in population *Narcissus* (*Narcissus tazetta* L.) in Khuzestan climate Iran. *Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research*, 29(2), 282-296.
3. Baziar, M., Baziary, F., **Zare, A.**, Keshtkar, E., & Ohadi, S. (2009). Studying the effect of crop straw burning on germination and growth of weeds. *Research on Crops*, 10(2), 210-221.
4. Bazayar, Z., Salehi Salmi, M., Pakdaman Sardrood, B., & **Zare, A.** (2022). Study of two hybrid lily (*Longiflorum*×*Asiatic*) cultivars ‘Nashville’ and ‘Merluza’ defensive some mechanisms against drought stress [Research]. *Plant Process and Function*, 11(50), 159-172.

5. Beheshtian, M., Rahimain, H., Alizadeh, H., Ohadi, S., & **Zare, A.** (2013). Modeling the Germination Responses of Wild Barley (*Hordeum spontaneum*) and Littleseed CanaryGrass (*Phalaris minor*) to Temperature. *Iranian Journal of Weed Science*, 9(2), 105-118.
6. Cheraghi Takht Choobi, T. A., Moosavi, S. A., **Zare, A.**, KoochekZade, A., & parmoon, g. (2023). Quantification of the effects of aging on cardinal temperatures of Echinops seed germination using nonlinear models (*Echinops* spp). *Iranian Journal of Seed Science and Technology*, 12(4), 35-46.
7. Cheraghi Takht Choobi, T. A., Moosavi, S. A., **Zare, A.**, KoochekZade, A., & parmoon, G. (2022). Quantification of seed germination response of Echinops aged seeds under osmotic stress using various nonlinear models and hydrotime function. *Iranian Journal of Seed Science and Technology*, 11(1), 101-116.
8. Fazli, M., **Zare, A.**, Siahpoosh, A., & Elahifard, E. (2022). The Evaluation of Growth Indices in Different Irrigation Systems and Weed Control Treatments and Correlation of Quantitative and Qualitative Traits of Sugarcane (*Saccharum officinarum*) [Research]. *Journal of Crop Production and Processing*, 12(3), 133-148.
9. Fazli, M., **Zare, A.**, Siahpoosha, A., & Elahifard, E. (2022). Evaluation the effect of different irrigation systems and weed control treatments on quantitative and qualitative yield of sugarcane (*Saccharum officinarum*) and weeds biomass. *Journal of Water Research in Agriculture*, 36(2), 165-179.
10. Hosseini, Z., Zare Bavani, M., & **Zare, A.** (2020). Investigation of Salinity Tolerance in Onion (*Allium cepa* L.) Cultivars Using Stress Tolerance Indices. *Journal of Vegetables Sciences*, 3(2), 43-61.
11. Hosseini, Z., Zare-Bavani, M. R., & **Zare, A.** (2021). The effect of salt stress on yield and accumulation of some minerals in two salt-tolerant and susceptible onion cultivars. *Desert*, 26(2), 157-171.
12. Hosseini, Z., Zare-Bavani, M., & **Zare, A.** (2021). Investigation of some biochemical responses to salt stress in edible onion (*Allium cepa* L.) cultivars. *Journal of Plant Biological Sciences*, 13(2), 101-118.
13. KarimMojeni, H., **Zare, A.**, Keshtkar, E., Mashhadi, H., & Alizadeh, H. (2010). Dormancy breaking of cocklebur (*Xanthium strumarium* L.) seeds. *Iranian Journal of Field Crop Science*, 41(3), 503-511.
14. Lotfizad, F., **Zare, A.**, Elahifard, E., & Khodaei jaghan, A. (2022). Response of Yield and Yield Components of Garlic (*Allium sativum* L.) to Stale Seedbeds and Different Dosages of Herbicide [Applicable]. *Journal of Crop Production and Processing*, 12(2), 119-132.
15. lotfizad, F., **Zare, A.**, Elahifard, E., & Khodaei jaghan, A. (2022). Efficiency of seedbeds and different dosage of Oxyfluorfen herbicide on weeds control, yield

- and yield components of garlic (*Allium sativum* L). *Journal of Crop Production*, 15(3), 103-122.
16. Sharafati, M., Elahifard, E., Siahpoosh, A., Heidari, M., & **Zare, A.** (2021). Effect of Mulch and Herbicide on Weed Control and Strawberry (*Fragaria × ananassa*) Yield in Khuzestan Conditions. *Journal of agricultural science and sustainable production*, 31(1), 313-329.
 17. Sharefi, Z., **Zare, A.**, Elahifard, E., & Abdali Mashhadi, A. (2023). The effect of wheat straw mulch and herbicide on weeds control, yield and yield components of fennel (*Foeniculum vulgare* Mill) under weather conditions of Khuzestan. *Journal of agricultural science and sustainable production*, 33(1), 305-317.
 18. Sharifi, Z., **Zare, A.**, Elahifard, E., & Abdali, A. (2023). Quantitative and Qualitative Yield of Fennel (*Foeniculum vulgare* Mill) Affected by Application of Wheat Straw Mulch and Herbicide. *Journal of Crops Improvement*, 25(4), 855-871.
 19. Shokri, M., Rahmati-Joneidabad, M., Heidari, M., Rasouli, M., & **Zare, A.** (2024). The effect of different vine training systems on the shelf life of *Vitis vinifera* cv. Bidane Sefid. *Journal of food science and technology (Iran)*, 21(148), 16-30.
 20. Zahadipour, r., Khodaei Joghhan, A., & **Zare, A.** (2023). Determining Critical Period for Weed Control of Garlic (*Allium sativum*) in Chemical and Organic nutrition Management. *Journal of agricultural science and sustainable production*, 33(2), 239-252.
 21. Zahedipour, R., Khodaei Joghhan, A., & **Zare, A.** (2023). Evaluation of periods of interference and weeds control in chemical and organic nutrition management on yield and yield components of garlic. *Plant Productions*, 46(1), 105-115.
 22. **Zare, A.** & Moosavi, S. A. (2020). Quantifying seed germination responses of *Echinops* and *Centaurea*, to salinity and drought stresses. *Notulae Scientia Biologicae*, 12(3), 702-710.
 23. **Zare, A.** & Sharifi, Z (2023). Evaluation of different dosage of Oxyfluorfen herbicide on weeds control and growth characteristics of black-eyed Susan (*Rudbeckia hirta* L.) [Research]. *Flower and Ornamental Plants*, 7(2), 199-212.
 24. **Zare, A.**, & Lotfi Jalalabadi, A. (2022). Evaluation of different mechanical, chemical, and physical treatments on breaking dormancy of seed Prickly scorpions (*Scorpiurus muricatus* L). *Iranian Journal of Seed Science and Technology*, 11(2), 43-54.
 25. **Zare, A.**, & Malekpoor- Sharahki, M. (2021). Quantitative seed germination of Brassicaceae family weeds under salinity and drought stresses conditions. *Environmental Stresses in Crop Sciences*, 14(4), 1127-113

26. **Zare, A.**, & Moosavi, S. A. (2021). Effects of different treatments on seed dormancy breaking in Syrian Thistle (*Notobasis syriaca*) as the first report in Iran. *Iranian Journal of Field Crop Science*, 52(2), 133-144.
27. **Zare, A.**, & Porameri, Z. (2021). Breaking of physical dormancy and evaluation of environmental factors on seed germination of field dodder parasite (*Cuscuta Campestris*). *Iranian Journal of Seed Science and Technology*, 10(2), 1-13.
28. **Zare, A.**, Deris, F., & Karimi, Z. (2020). Seed germination response of *Centaurea bruguierana* Hand.-Mazz to environmental factors. *Iranian Journal of Weed Science*, 16(2), 115-127.
29. **Zare, A.**, Deris, F., & Karimi, Z. (2021). Determination of cardinal temperature and evaluation of germination characteristics of Syrian Thistle (*Notobasis syriaca*) in response to temperature range and salinity and drought stresses. *Iranian Journal of Seed Research*, 8(1), 91-104.
30. **Zare, A.**, Deris, F., & Karimi, Z. (2021). Influence of environmental factors on seed germination characteristics of invasive weed yellow starthistle (*Centaurea solstitialis*). *Iranian Journal of Seed Science and Technology*, 9(4), 111-122.
31. **Zare, A.**, Deris, F., & Karimi, Z. (2022). Influence of environmental factors on seed germination and seedling emergence of *Dinebra retroflexa*. *Iranian Journal of Weed Science*, 18(2), 91-102.
32. **Zare, A.**, Elahifard, E., & Asadinejad, Z. (2021). Comparison of Ecological Aspects of Seed Germination of Syrian mesquite (*Prosopis farcta*) Ecotypes of Khuzestan and Fars Provinces. *Iranian Journal of Seed Research*, 7(2), 135-150.
33. **Zare, A.**, Elahifard, E., Taklifi Adnani, Z., & Rostaei, A. (2020). Quantifying field weeds emergence pattern of weeds in rapeseed (*Brassica napus* L.) under weather conditions of Khuzestan, Iran [Scientific & Research]. *Iranian Society of Crops and Plant Breeding Sciences*, 22(2), 198-211.
34. **Zare, A.**, Khodaeaei, A., & Khezrepor, Z. (2022). Evaluation of germination in chia as a medicinal-oil seed plant under environmental stresses. *Journal of Crops Improvement*, 24(1), 31-40.
35. **Zare, A.**, Malekpoor, M., & Arabizadeh, M. (2021). Determining Cardinal Temperature for Seed Germination of Four Weeds Brassicaceae Family. *Journal of Crops Improvement*, 23(2), 417-428.
36. **Zare, A.**, Rahimian Mashahadi, H., Alizadeh, H., & Beheshtian Mesgaran, M., (2009). The responses of corn weeds to nitrogen fertilizer rates and herbicide dosages. *Iranian Journal of Weed Science*, 4(2), 21-32.
37. **Zare, A.**, Rahimian Mashhadi, H., Alizadeh, H., & Beheshtian Mesgaran, M. (2012). Modelling of Interaction between Fertilizer Rates and Nicosulfuron Herbicide Doses on Grain Yield and Biomass of Corn. *Iranian Journal of Field Crop Science*, 42(4), 673-681.

38. **Zare, A.**, Rahimian Mashhadi, H., Oveisi, M., & Hamidi, R. (2021). The survey of phenomenon as regrowth of wild oat after application herbicide in two populations Fars and Kurdistan. *Applied Entomology and Phytopathology*, 88(2), 187-197.
39. **Zare, A.**, Rahimian Mashhadi, H., Oveisi, M., & Hamidi, R. (2021). Does increase of wild oat density change time of application of wheat selective herbicide?. *Iranian Journal of Field Crop Science*, 52(1), 131-143.
40. **Zare, A.**, Rahimian, M. H., Oveisi, M., & Hamidi, R. (2015). Evaluation of Wild Oat Seedling Emergence after Herbicide Application in Wheat. *iranian journal of weed science*, 11(1), 37-49.
41. **Zare, A.**, Rahimian-Mashhadi, H., Oveisi, M., & Hamidi, R. (2020). Is the regrowth of *Avena* spp. after herbicide application affected by the application time? *Iranian Journal of Weed Science*, 16(2), 75-85.
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**CONGRESS
ARTICLES**

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1.Mashhadi H. R., M. B. Mesgaran, H. Alizadeh, A. Zare, S. Rahimi and E. Raies Mohammadi. 2012. Modelling seedling emergence of *Hordeum spontaneum* and *Phalaris minor.*, Australia 8–11 October 2012

Hoseini, P, Mashhadi, H. R., Alizadeh, H., & Zare, A. (2010). Studying the competitive ability of two dwarf and tall soybean (*Glycine max*) cultivars with red root pigweed (*Amaranthus retroflexus*). In Proceedings of 3rd Iranian Weed Science Congress, Volume 1: Weed biology and ecophysiology, Babolsar, Iran, 17-18 February 2010 (pp. 217-220). Iranian Society of Weed Science.
