



PERSONAL INFORMATION:

Full Name: Javid Gherekhloo

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EDUCATION:

B.Sc. in agronomy and Plant breeding, Ferdowsi University of Mashhad, Iran, 1992-1996.

M.Sc. in Weed Science, University of Tehran, 2000-2002. Thesis title: "Determination of economic damage threshold of weeds on wheat in Mashhad area"

Ph.D. in Weed Science, Ferdowsi University of Mashhad, Iran, 2003-2008. Thesis title: "Tracing resistant *Phalaris minor* populations and studying their resistance mechanisms to aryloxyphenoxy propionate herbicides in Fars and Golestan wheat fields"

RESEARCH INTEREST:

- Herbicide resistance
- Integrated Weed management
- Invasive weeds

PUBLICATION:

Books:

- **Sohrabi, S., J. Gherekhloo** and M.H., Rashed Mohassel. 2017. Plant invasion and invasive weeds of Iran. Jihad-e-Daneshgahi, 192 pp.

-Razavi, E., **J. Gherekhloo**, M. Yazdanian, J. Sanei and S. Hassanpour Bourkheili. 2021. Pesticide Bioassay. Gorgan University of Agricultural Sciences and Natural Resources' press. 362 pp.

Hassanpour Bourkheili, S., **J. Gherekhloo**, S. Sohrabi. 2022. Research Methods in Weed Science. Ferdowsi University's press. 444 pp.

Refereed Journal Papers:

a) ISI Journals

1. **Gherekhloo, J.**, M.H. Rashed Mohassel, M. Nassiri Mahallati, E. Zand, A. Ghanbari, M.D. Osuna and R. De Prado. 2008. Seed Bioassay and ACCase Enzyme Assay to Study the Resistance of *Phalaris minor* to Aryloxyphenoxy-propionate (APP) Inhibitors. Environmental Sciences, 6(1): 43-52.
2. **Gherekhloo, J.**, S. Noroozi, D. Mazaheri, A. Ghanbari, M.R. Ghannadha, R.A. Vidal, and R. De Prado. 2010. Multispecies weed competition and their economic threshold on the wheat crop. Planta Daninha, 28(2): 239-246. <https://doi.org/10.1590/S0100-83582010000200002>.
3. Vidal, R. A., A. Kalsing and **J. Gherekhloo**. 2010. Interference and economic threshold of *Brachiaria plantaginea* and *Ipomoea nil* in the common bean crop. Ciência Rural, 40(8):1675-1681. <https://doi.org/10.1590/S0103-84782010000800001>.
4. Ghaderi-Far, F., **J. Gherekhloo**, and M. Alimagham. 2010. Influence of environmental factors on seed germination and seedling emergence of yellow sweet clover (*Melilotus officinalis*). Planta Daninha, 28(3): 463-469. <https://doi.org/10.1590/S0100-83582010000300002>.
5. **Gherekhloo, J.**, M.H. Rashed Mohassel, M. Nassiri Mahallati, E. Zand, A. Ghanbari, M.D. Osuna and R. De Prado. 2011. Confirmed resistance to Aryloxyphenoxy propionate herbicides in *Phalaris minor* populations from Iran. Weed Biology and Management, 11: 29-37. <https://doi.org/10.1111/j.1445-6664.2011.00402.x>.
6. **Gherekhloo, J.**, M.D. Osuna and R. De Prado. 2012. Biochemical and molecular basis of resistance to ACCase-inhibiting herbicides in Iranian *Phalaris minor* populations. Weed Research, 52(4): 367-372. <https://doi.org/10.1111/j.1365-3180.2012.00919.x>.
7. Sohrabi, S., M. H. Rashed Mohasel, M. Nassiri Mahalati and **J. Gherekhloo**. 2013. Some biological aspects of lesser celandine (*Ranunculus ficaria*) invasive weed. Planta Daninha, 31(3): 577-585. <https://doi.org/10.1590/S0100-83582013000300010>.
8. Sohrabi, S., A. Ghanbari, M. H. Rashed Mohasel, M. Nassiri Mahalati and **J. Gherekhloo**. 2013. Effect of desiccation and salinity stress on seed germination and initial plant growth of *Cucumis melo*. Planta Daninha, 31(4): 833- 841. <https://doi.org/10.1590/S0100-83582013000400009>.
9. Derakhshan, A. and **J. Gherekhloo**. 2013. Factors affecting *Cyperus difformis* seed germination and seedling emergence. Planta Daninha, 31(4): 823-832. [10.1590/S0100-83582013000400008](https://doi.org/10.1590/S0100-83582013000400008).
10. Foroughi, A., **J. Gherekhloo**, and F. Ghaderi-Far. 2014. Effect of plant density and seed position on mother plant on physiological characteristic of cocklebur (*Xanthium*

strumarium L.) seeds. *Planta Daninha*, 32(1): 61-68. <https://doi.org/10.1590/S0100-83582014000100007>.

11. Derakhshan, A., **J. Gherekhloo**, R.A. Vidal, and R. De Prado. 2014. Quantitative description of the germination of littleseed canarygrass (*Phalaris minor*) in response to temperature. *Weed Science*, 62(2): 250-257. <https://doi.org/10.1614/WS-D-13-00055.1>.

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12. Cruz-Hipolito, H., P. Fernandez, R. Alcantara, **J. Gherekhloo**, M. D. Osuna and R. De Prado. 2015. Ile-1781-Leu and Asp-2078-Gly mutations in ACCase gene, endow cross resistance to APP, CHD, and PPZ in *Phalaris minor* from Mexico. *International Journal of Molecular Sciences*, 16: 21363-21377; doi:10.3390/ijms160921363.
13. Hatami, Z., **J. Gherekhloo**, A. Rojano-Delgado, M.D. Osuna, R. Alcántara, P. Fernández, H.R. Sadeghipor and R. De Prado. 2016. Multiple Mechanisms Increase Levels of Resistance in *Rapistrum rugosum* to ALS Herbicides, *Frontiers in Plant Science*, 7: 1-13. <http://dx.doi.org/10.3389/fpls.2016.00169>.
14. Sohrabi, S., A. Ghanbari, M.H.R. Mohassel, **J. Gherekhloo**, R.A. Vidal. 2016. Effects of environmental factors on *Cucumis melo* L. subsp. *agrestis* var. *agrestis* (Naudin) Pangalo seed germination and seedling emergence. *South African Journal of Botany*, 105: 1-8. <https://doi.org/10.1016/j.sajb.2016.03.002>.
15. Sohrabi, S., **J. Gherekhloo**, B. Kamkar, A. Ghanbari and M H. Rashed Mohassel. 2016. The phenology and seed production of *Cucumis melo* as an invasive weed in northern Iran. *Australian Journal of Botany*, 64(3) 227-234. <https://doi.org/10.1071/BT15256>.
16. **Gherekhloo, J.**, M. Oveisi, E. Zand, and R. De Prado. 2016. A review of herbicide resistance in Iran. *Weed Science*, 64 (4): 551-561. <https://doi.org/10.1614/WS-D-15-00139.1>.
17. Ansari, O., **J. Gherekhloo**, B. Kamkar, F. Ghaderi Far. 2016. Breaking seed dormancy and determining cardinal temperatures for *Malva sylvestris* using nonlinear regression. *Seed Science and Technology*, 44(3):1-14. <https://doi.org/10.15258/sst.2016.44.3.05>.
18. Yousefi, M., B. Kamkar, **J. Gherekhloo**, R. Faez. 2016. Sulfosulfuron persistence in soil under different cultivation systems of wheat (*Triticum aestivum*). *Pedosphere*, 26(5):666- 675. [https://doi.org/10.1016/S1002-0160\(15\)60075-3](https://doi.org/10.1016/S1002-0160(15)60075-3).
19. Dominguez-Valenzuela, J. A., **J. Gherekhloo**, P. T. Fernandez-Moreno, H. E. Cruz-Hipolito, R. Alcantara-de la Cruz, E. Sanchez-Gonzalez and R. De Prado. 2017. First confirmation and characterization of target and non-target site resistance to glyphosate in Palmer amaranth (*Amaranthus palmeri*) from Mexico. *Plant Physiology and Biochemistry*, 115: 212-218. [10.1016/j.plaphy.2017.03.022](https://doi.org/10.1016/j.plaphy.2017.03.022).
20. **Gherekhloo, J.**, P. Fernández-Moreno, R. Alcántara-de la Cruz, E. Sánchez-González, H. E. Cruz-Hipolito, J. Domínguez-Valenzuela, and R. De Prado. 2017. Pro-106-Ser mutation and EPSPS overexpression acting together simultaneously in glyphosate-resistant goosegrass (*Eleusine indica*). *Scientific Reports*, DOI:10.1038/s41598-017-06772-1.
21. Vidal, R.A., M. Fipke, A. R. Silva De Queiroz, D.S. Soares, and **J. Gherekhloo**. 2017. An innovative method to evaluate the impact of temperature on iodosulfuron-methyl

selectivity to oat crop. *Planta Daninha*: 35(2):1-6. 10.1590/s0100-83582017350100047.

22. **Gherekhlou, J.**, Z. Hatami, R. Alcántara de la Cruz, P. Fernández, H.R. Sadeghipor and R. De Prado. 2018. Continuous use of tribenuron methyl selected for cross-resistance to ALS inhibiting herbicides in *Sinapis arvensis*. *Weed Science*, 66(4): 424-432. <https://doi.org/10.1017/wsc.2018.23>.
23. Palma-Bautista, C., **J. Gherekhlou**, P. A. Domínguez-Martínez, J. A. Domínguez Valenzuela, H. E. Cruz-Hipolito, R. Alcántara-de la Cruz, A. M. Rojano-Delgado and R. De Prado. 2019. Characterization of three glyphosate resistant *Parthenium hysterophorus* populations collected in citrus groves from Mexico. *Pesticide Biochemistry and Physiology*, 155:1-7. <https://doi.org/10.1016/j.pestbp.2018.11.002>.

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24. Golmohammadzadeh, S., **J. Gherekhlou**, A. M. Rojano-Delgado, M. D. Osuna-Ruíz, B. Kamkar, F. Ghaderi-Far and R. De Prado. 2019. The First Case of Short-Spiked Canarygrass (*Phalaris brachystachys*) with Cross-Resistance to ACCase-Inhibiting Herbicides in Iran. *Agronomy*, 9: 377; doi:10.3390/agronomy9070377.
25. Sohrabi, S. P. O. Downey, **J. Gherekhlou** and S. Hassanpour-bourkheili. 2020. Testing the Australian Post-Border Weed Risk Management (WRM) system for invasive plants in Iran. *Journal for Nature Conservation*, 53: 125780, <https://doi.org/10.1016/j.jnc.2019.125780>.
26. **Gherekhlou, J.**, R. Alcántara-de la Cruz, M.D. Osuna Ruiz, S. Sohrabi Kertabad, and R. De Prado. 2018. Assessment genetic variation and spread of resistance to ACCase inhibiting herbicides in *Phalaris minor* in Iran. *Planta Daninha*,(accepted).
27. Golmohammadzadeh, S., A. M. Rojano-Delgado, J. G. Vazquez Garcia, Y. Romano, M. D. Osuna, **J. Gherekhlou**, R. De Prado. 2020. Cross-resistance mechanisms to ACCase inhibiting herbicides in short-spike canarygrass (*Phalaris brachystachys*). *Plant Physiology and Biochemistry*, <https://doi.org/10.1016/j.plaphy.2020.03.037>.
28. Hassanpour bourkheili, S., **J. Gherekhlou**, B. Kamkar and S. Ramezanpour. 2020. Comparing fitness cost associated with haloxyfop-R methyl ester resistance in winter wild oat biotypes. *Planta Daninha*, v38:e020213759. DOI: 10.1590/S0100-83582020380100042.
29. Mahmoodi Atabaki, Z., **J. Gherekhlou**, F. Ghaderi-Far, O. Ansari, and S. Hassanpour bourkheili. 2020. Investigating the effects of temperature on seed germination of cutleaf geranium (*Geranium dissectum* L.) and determination of its cardinal temperatures. *Phytoparasitica*. <https://doi.org/10.1007/s12600-020-00865-w>.
30. Hassanpour-bourkheili, S., M. Heravi, **J. Gherekhlou**, R. Alcántara-de la Cruz, and R. De Prado. 2020. Fitness cost of imazamox resistance in wild poinsettia (*Euphorbia heterophylla* L.). *Agronomy*, 10(12), 1859. <https://doi.org/10.3390/agronomy10121859>.
31. Hassanpour bourkheili, S., **J. Gherekhlou**, B. Kamkar and S. Ramezanpour. 2021. No fitness cost associated with Asn-2041-Ile mutation in winter wild oat (*Avena*

- ludoviciana*) seed germination under various environmental conditions. Scientific Reports, 11:1-11. <https://doi.org/10.1038/s41598-021-81310-8>
32. Hassanpour bourkheili, S., **J. Gherekhloo**, B. Kamkar and S. Ramezanzpour. 2021. Mechanism and pattern of resistance to some ACCase inhibitors in winter wild oat (*Avena sterilis* subsp. *ludoviciana* (Durieu) Gillet & Magne) biotypes collected within canola fields. Crop Protection, 143, 105541. <https://doi.org/10.1016/j.cropro.2021.105541>.
 33. Sohrabi, S., Pergl, J., Pys̆ek, P., Foxcroft, L.C. and **Gherekhloo, J.** 2021. Quantifying the potential impact of alien plants of Iran 3 using the Generic Impact Scoring System (GISS) 4 and Environmental Impact Classification for Alien Taxa 5 (EICAT). Biological Invasions, doi: <https://doi.org/10.1007/s10530-021-02515-6>.
 34. Akbari-Gelvardi, A., A. Siahmarguee, F. Ghaderi-Far, **J. Gherekhloo**. 2021. The effect of environmental and management factors on seed germination and seedling emergence of Asian spiderflower (*Cleome viscosa* L). Weed Research, <https://doi.org/10.1111/wre.12493>.
 35. **Gherekhloo, J.**, S. Hassanpour bourkheili, P. Hejazirad, S. Golmohammadzadeh, J. Vázquez García and R. De Prado. 2021. Herbicide Resistance in *Phalaris* Species: A Review. *Plants* 10(11): 2248. <https://doi.org/10.3390/plants10112248>.
 36. Golmohammadzadeh, S., **J. Gherekhloo**, M.D. Osuna, F. Ghaderi-Far, B. Kamkar, R. Alcántara-de la Cruz, and R. De Prado. 2022. Physiological fitness associated to ACCase target-site resistance enhances growth and reproduction in *Phalaris brachystachys*. *Agronomy*, 12, 1206. <https://doi.org/10.3390/agronomy12051206>.
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37. Delavaran, H., H. Kazemi, B Kamkar and **J. Gherekhloo**. 2022. Development of a new model for health assessment in agroecosystems. Environmental Monitoring and Assessment. 194 (2), 1-16. <https://doi.org/10.1007/s10661-022-09753-8>.
 38. Sohrabi, S., M. Villa, E. Zand, **J. Gherekhloo** and S. Hassanpour. 2022. Alien plants of Iran: impacts, distribution and managements. Biological Invasion, <https://doi.org/10.1007/s10530-022-02884-6>.
 39. Palma-Bautista, C. J. Portugal, J. G. Vázquez-García, M. D. Osuna, J. Torra, J. Lozano-Juste, **J. Gherekhloo** and R. De Prado. 2022. Tribenuron-methyl metabolism and the rare Pro197Phe double mutation together with 2,4-D metabolism and reduced absorption can evolve in *Papaver rhoeas* with multiple and cross herbicide resistance to ALS inhibitors and auxin mimics. Pesticide Biochemistry and Physiology, 188: 105226. <https://doi.org/10.1016/j.pestbp.2022.105226>.
 40. Rastgoo, M., M. Mirzaei, **J. Gherekhloo**, A. Hasanfard. 2022. Effect of water hardness induced by bicarbonate and chloride forms of magnesium and sodium on the performance of herbicides for littleseed canarygrass control. Journal of Crop Protection, 11 (3): 315-327. 20.1001.1.22519041.2022.11.3.2.7.

b) National Journals (in Persian with English abstract)

- 1- **Gherekhloo, J.** D. Mzaheri, A. Ghanbari and M.R. Ghannadha. 2004. Multispecies competition effects of weeds on yield and yield components of wheat. Desert, 9(2): 196- 206.
- 2- Koocheki, A., M. Nassiri, A. Siahmarguee, **J. Gherekhloo**, M. Rastgoo and A. Ghaemi. 2008. Effect of different integrated weed management methods on weed density and yield of sugar beet crop. Iranian Journal of Field Crops Research, 6(2): 383-395.
- 3- **Gherekhloo, J.**, M.H. Rashed Mohassel, M. Nassiri Mahallati, E. Zand, A. Ghanbari and R. De Prado. 2008. Greenhouse assay to investigate resistance of littleseed canary grass (*Phalaris minor*) to aryloxyphenoxy propionate herbicides. Iranian Journal of Field Crops Research, 6(2): 353-363.
- 4- Rashed Mohassel, M.H., **J. Gherekhloo** and M. Rastgoo. 2009. Allelopathic effects of saffron (*Crocus sativus*) leaves and corms on seedling growth of redroot pigweed (*Amaranthus retroflexus*) and lambsquarter (*Chenopodium album*). Iranian Journal of Field Crops Research, 7 (1): 53-61.
- 5- Zand, E., A. Razmi, F. Benakashani, F. Nazari and **J. Gherekhloo**. 2010. Using the dCAPS Method to Detect the Resistance of Wild Oat (*Avena ludoviciana* Durieu.) to Clodinafop-propargyl in Comparison with Current Methods. Iranian Journal of Weed Science, 6 (1): 33-52
- 6- **Gherekhloo, J.**, M.H. Rashed, M. Nasiri, E. Zand, A. Ghanbari and R. De Prado. 2010. Study the non-target site based mechanisms of resistance in Aryloxyphenoxy Propionate Resistant-*Phalaris minor* Retz. Biotypes. Iranian Journal of Weed Science, 6 (2): 79-89.
- 7- **Gherekhloo, J.** and A. Derakhshan. 2012. Investigating cross-resistance of resistant *Phalaris minor* to ACCase herbicides. Weed Research Journal, 4(1): 15-25.
- 8- Yousefi, M., B. Kamkar, **J. Gherekhloo**, R. Faez and M. Hadizadeh. 2012. Study on sulfosulfuron half-life in no-tillage and conventional tillage systems by High Performance Liquid Chromatography. Weed Research Journal, 4(1): 41-53.
- 9- **Gherekhloo, J.**, A. Derakhshan, R.A. Vidal, and M. Rastgoo. 2012. A review of transgenic crops resistance to herbicides: benefits and disadvantages. Weed Research Journal, 4 (2), 111-139.
- 10- Ghorbanpour, E., **J. Gherekhloo** and F. Ghaderifar. 2012. Competition effect of cotton on growth, leaf area and its vertical distribution in canopy of velvetleaf. 2012. Weed Research Journal, 4(2): 1-17.
- 11- Najari Kalantari, N., **J. Gherekhloo** and B. Kamkar. 2013. Tracing and map of canary grass (*Phalaris minor*) and hood grass (*P. paradoxa*) biotypes resistant to clodinafop propargyl herbicide in wheat fields of Aq-qala. Weed Research Journal, 5(1): 85-97.
- 12- Abdollahipour, M., **J. Gherekhloo** and N. Bagherani. 2013. Investigating fitness of tribenuron methyl-resistant biotypes of wild mustard (*Sinapis arvensis* L.) in laboratory conditions. Weed Research Journal, 5(1): 35-48.

- 13- Foroghi, A., **J. Gherekhloo** and F. Ghaderifar. 2013. Planning row spacing effect and common cocklebur (*Xanthium strumarium*) interference on grain yield and its components of two sesame (*Sesamum indicum*) cultivars in Gorgan. Journal of Crop Production, 6(2): 101-116.
- 14- Derakhshan, A., **J. Gherekhloo** and E. Paravar. 2013. Estimation of cardinal temperatures and thermal time requirement for *Cyperus difformis* Seed Germination. Iranian Journal of Weed Science, 9 (1), 27-38.
- 15- Zand, E., A. Razmi, F. Benakashani, N. Nezamabadi, **J. Gherekhloo** and H. R. Sasanfar. 2013. Using CAPS and dCAPS methods to detect some Mutations that cause resistance to acetyl co-enzyme A carboxylase inhibiting herbicides in wild oat (*Avena ludoviciana*). Iranian Journal of Weed Science, 9 (1): 79-91.
- 16- Zzand, E., M. A. Baghestani, H. Alizadeh, H. Rahimian Mashhadi, H.R. Sasanfar, S. Babaei, P. Shimi, M. Montazeri, M. Minbashi Moeini, M. R. Mousavi, **J. Gherekhloo**, F. Meighani, M. Abdollahian, A. Moradi, M. Rastgoo. 2013. An audit for weed science in Iran during the years 2009 and 2010. Iranian Journal of Weed Science, 9 (1): 79-91.
- 17- Sohrabi, S., A. Ghanbari, M.H. Rashed Mohassel, M. Nassiri Mahalati and **J. Gherekhloo**. 2014. Effect of salinity and temperature on germination, seedling growth, Na and water content characteristics of the wild melon (*Cucumis melo*). Journal of Plant Protection, 27 (4): 452-458.
- 18- Derakhshan, A., **J. Gherekhloo**, and N. Bagherani. 2013. Effect of row spacing and herbicide application on the growth indices, yield and yield components of rice in direct seeding. Weed Research Journal, 5(2):137-152.
- 19- Torabi, S., **J. Gherekhloo**, B. Kamkar, and M. Yousefi. 2013. Investigating the impact of the manure and trifluralin application rate on herbicide persistence in soil. Journal of Agroecology, 39(1): 42-51.
- 20- Ghorbanpour, E., F. Ghaderifar, and **J. Gherekhloo**. 2014. Effect of row spacing on competition of velvetleaf (*Abutilon theophrasti* Medic.) with cotton (*Gossypium hirsutum* L.). Journal of Crop Production and Processing, 4(12): 285-294.
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- 21- Ghorbanpour, E., F. Ghaderifar, and **J. Gherekhloo**. 2014. Effect of row spacing in competition of cotton with velvetleaf on crop growth. Journal of Crops Improvement, 16 (1): 99-110.
- 22- Tahmasebi, M., N. Salamati, **J. Gherekhloo**, and A. Hajarpoor. 2014. The effect of row spacing and weed density on growth indices of canola in competition with wild mustard (*Sinapis arvensis*). Electronic Journal of Crop Production, 7 (3): 53-74.
- 23- Sohrabi Kertabad, S., A. Ghanbari, M.H. Rashed Mohasel, **J. Gherekhloo** and N. Bagherani. 2014. The assessment of seed production of wild melon (*Cucumis melo* L.) and its distribution map in Golestan province. Weed Research Journal, 6(1): 39-50.
- 24- Salkhordeh, L., B. Kamkar, **J. Gherekhloo** and Z. Arabi. 2014. Study of weeds biodiversity on wheat fields of Gorgan using geographic information system (GIS). Weed Research Journal, 6(1): 61-70.

- 25- Derakhshan, A. and **J. Gherekhloo**. 2014. Study on some ecological aspects of Cutleaf groundcherry (*Physalis angulata* L.) seed germination and dormancy. Journal of Plant Protection 28(3): 416-424.
- 26- Derakhshan, A., H. Akbari and **J. Gherekhloo**. 2014. Hydrotime modeling of *Phalaris minor*, *Amaranthus retroflexus* and *A. blitoides* seed germination. Iranian Journal of Seed Science and Research, 28(3): 416-424.
- 27- Derakhshan, A., N. Najari Kalantari, **J. Gherekhloo** and B. Kamkar. 2014. Resistance of wild mustard (*Sinapis arvensis*) and turnipweed (*Rapistrum rugosum*) to tribenuron methyl herbicide in Aq Qala. Journal of plant protection, 29(2): 199-205.
- 28- Derakhshan, A. and **J. Gherekhloo**. 2015. Comparison of hydrothermal time models to seed germination modeling of *Phalaris minor* on the basis of Normal, Weibull and Gumbel distributions. Journal of Plant Production Research, 22(1): 39-57.
- 29- Derakhshan, A. **J. Gherekhloo**, and N. Bagherani. 2015. Effect of row spacing and herbicide application on the growth indices, yield and yield components of rice in direct seeding. Journal of Crop Production, 8(2):31-49.
- 30- Alasti, O. and **J. Gherekhloo**. 2016. The Effects of biochar on sorption and leaching of herbicides: A review. Weed Research Journal, 7(1): 1-20.
- 31- Foroughi, A., **J. Gherekhloo** and F. Ghaderifar. 2015. Evaluation of competitive ability in two sesame (*Sesamum indicum* L.) cultivars with cocklebur (*Xanthium strumarium* L.) in different crop row spacing. Journal of Crop Production, 8(3):19-40.
- 32- Sohrabi, S., M.H. Rashed Mohassel and **J. Gherekhloo**. 2016. Studying some Aspects of Biology and Morphology of Root Tubers and Seeds of *Ranunculus ficaria* L. Journal of Plant Protection 30(3): 388-395.
- 33- Hatami Moghaddam, Z., **J. Gherekhloo**, R. De Prado and H.R. Sadeghipour. 2016. Tracing resistance to tribenuron-methyl in populations of wild mustard (*Sinapis arvensis* L.) and turnipweed (*Rapistrum rugosum* L.) collected from wheat Fields of Golestan province and introduction a new method in order to detect their resistant population. Journal of Plant Protection, 30(2): 347-358.
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- 34- Gorgani, M., A. Siahmarguei, F. Ghaderi Far and **J. Gherekhloo**. 2016. Locating areas prone to infection with Ivy-leaved morning glory (*Ipomoea hederaceae* Jacq) in germination stage: a new entrant's weed in arable lands of Golestan Province. Weed Research Journal, 8(2): 38-51.
- 35- Ranjbar, M.H., **J. Gherekhloo** and A. Soltani. 2017. Effect of different tillage systems on growth indices and yield of *Zea mays* L. (Corn Forage). Iranian Journal of Field Crops Research, 15(2): 267-285.
- 36- Ranjbar, M.H., **J. Gherekhloo** and A. Soltani. 2017. Diversity and evenness of weeds in forage corn field under different tillage systems. Journal of Plant Protection, 31(2): 213- 222.
- 37- Ansari, O., **J. Gherekhloo**, F. Ghaderi-Far and B. Kamkar. 2017. Application of hydro time model for quantification of *Malva sylvestris* L. germination response to water potential. Environmental Stresses in Crop Sciences, 10(1): 67-77.

- 38- Sohrabi-Rad, E. M., A. Siahmarguee, H. Kazemi, F. Ghaderi-Far and **J. Gherekhloo**. 2017. Influence of crop management practices and soil characteristics on weed population and soil seed bank in soybean fields. *Journal of Agroecology*, 7 (1):155-172.
- 39- Afshari, M., A. Ghanbari, M. Rastgoo, **J. Gherekhloo** and G. Ahmadvand. .2017.Investigating resistance of wild mustard (*Sinapis arvensis* L.) populations to tribenuron-methyl herbicide. *Journal of Crop Ecophysiology*, 11 (41): 127-141.
- 40- Zarinjoub, H., M.H. Gharineh, **J. Gherekhloo**, E. Elahi-Fard. 2018. Quantifying the effects of herbicide dose and wild mustard (*Sinapis arvensis* L.) density on wheat and weed biomass production, *Journal of Plant Protection*, 31(4): 628-638.
- 41- Ansari, O., **J. Gherekhloo**, F. Ghaderi-Far and B. Kamkar. 2018. Effect of osmotic potential on germination cardinal temperatures of tall mallow (*Malva sylvestris* L.). *Environmental Stresses in Crop Sciences*, 11(2): 341-352.
- 42- Tatari, S., **J. Gherekhloo**, A. Siahmarguee and H. Kazemi. 2018. Identification of resistant *Avena ludoviciana* Dur. accessions to ACCase inhibitor herbicides in Gonbad-E Kavus wheat fields and mapping their distribution. *Journal of Plant Productions*, 41(2): 103-116.
- 43- Akhoondi, S., **J. Gherekhloo** and N. Bagherani. 2017. The effect of mixing herbicides of clodinafop-propargyl and sulfosulfuron in wheat, wild oat (*Avena ludoviciana* Dur.) and little seed canary grass (*Phalaris minor* Retz.). *Weed Research Journal*, 9 (1): 63-81.
- 44- Hassanpour bourkheili, S., **J. Gherekhloo**, B. Kamkar, S.S. Ramezanpour. 2017. A comparison of cardinal temperatures between haloxyfop R methyl ester-resistant and susceptible winter wild oat (*Avena ludoviciana* Durieu.) biotypes. *Weed Research Journal*, 9 (2): 63-81.
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- 47- Heravi, M., **J. Gherekhloo**, A. Siahmarguee, H. Kazemi and S. Hassanpour bourkheili. 2017. Investigating the resistance of wild mustard (*Sinapis arvensis* L.) biotypes to tribenuron methyl herbicide in wheat fields of Ramiyan Township. *Weed Research Journal*, 10 (1): 46-59.

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- 49- Kheradmand, S., B. Kamkar, **J. Gherekhloo**, M.H. Hadizadeh and G. Rasam. 2020. Investigating management factors affecting weed biodiversity indices and yield of wheat field in Chenaran township using CART decision tree. Weed Research Journal, 11(3):73- 91.
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- 54- Hejazirad, P., **J. Gherekhloo**, Momeni, A., Bagherani, N., Soltani, A. and Zeinali, E. 2021. Effect of different weed management in rice under aerobic conditions under seed and seedling cultivation system. Journal of Crop Production (Accepted).
- 55- Soufizadeh, T., **J. Gherekhloo**, S. Sohrabi, N. Bagherani and A. Siahmarguee. 2022. Mapping the distribution of winter wild oat (*Avena ludoviciana* Durieu.) biotype resistant to clodinafop-propargyl, diclofop-methyl and fenoxaprop-P ethyl herbicides in wheat fields of Kalaleh. Iranian Journal of Weed Science(in press).
- 56- Sohrabi, S., A. Jalili, E. Zand and **J. Gherekhloo**. 2022. Introducing some alien plants of Iran and their risk of invasion. Journal of Iran Nature, 7 (2): 77-85. [10.22092/IRN.2022.356770.1421](https://doi.org/10.22092/IRN.2022.356770.1421).
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- 57- Bai, E., A. Siahmarguee, **J. Gherekhloo** and H. Kazemi. 2022. Effect of summer cover crops and row spacing on weed management and yield and components yield of bean (*Vicia faba* L.). Journal of Agricultural Science and Sustainable Production. 32(4): 33-55. [10.22034/SAPS.2021.47570.2724](https://doi.org/10.22034/SAPS.2021.47570.2724).
- 58- Sohrabi, S., Javid Gherekhloo, E. Zand and N. Nezamabad. 2023. The necessity of monitoring and assessing alien plants in Iran. Journal of Iran Nature, 8(1): 81-90. [10.22092/irn.2023.360646](https://doi.org/10.22092/irn.2023.360646).
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- 60- Khodapanah, G., **J. Gherekhloo**, F. Ghaderi-Far , S. Sohrabi and S. Golmohammadzadeh. 2022. Evaluation the seed dormancy and germination of black bind weed (*Polygonum convolvulus* L.). Iranian Journal of Weed Science. (in press).

Conference papers:

1. **Gherekhloo, J.**, D. Mazaheri, A. Ghanbari and M.R. Ghannadha. 2004. Determination of economic damage threshold of weeds on wheat using regression equations. Proceeding of the International conference on Information Systems & Innovative Technologies in Agriculture, Food and Environment. Thessaloniki, Greece. (Oral Presentation).
2. Mazaheri, D., **J. Gherekhloo**, A. Ghanbari and M.R. Ghannadha. 2005. Multispecies competition effects of weeds on wheat. Proceeding of the 13th EWRS Symposium. Bari, Italy.
3. Ghanbari, A., D. Mazaheri, M.R. Ghannadha and **J. Gherekhloo**. 2005. Evaluation of multispecies competition of weeds with wheat. Proceeding of the 13th EWRS Symposium. Bari, Italy.
4. Makarian, H., M.H.R. Mohassel, M. Bannayan, M. Nassiri and **J. Gherekhloo**. 2007. Effects of site-specific and conventional herbicide application on spatial and temporal variability of *Cardaria draba* (L.) population. Proceeding of the 14th EWRS Symposium. Hamar, Norway.
5. **Gherekhloo, J.**, M.H. Rashed Mohassel, M. Nassiri Mohallati, E. Zand, A. Ghanbari, M.D. Osuna, R. De Prado and R.A. Vidal. 2008. Resistance to diclofop-methyl, fenoxaprop-P ethyl herbicides in *Phalaris minor* populations from Iran. Proceeding of the Congreso de la Asociación Latinoamericana de Malezas. Porte Alegre, Brasil.
6. De Prado, R., M. D. Osuna, **J. Gherekhloo**, H. Cruz Hipólito and R. A. Vidal. 2008. Herbicide-Resistant Weed Biotypes in Europe: A Review. Proceeding of the 2nd Iranian Society of Weed Science Symposium. Mashhad, Iran.
7. **Gherekhloo, J.**, M.H. Rashed Mohassel, M. Nasiri Mahalati, E. Zand, A. Ghanbari, M.D. Osuna, J.P. Ruiz-Santaella, J. Wagner, and R. De Prado. 2008. ACCase mutations confer ACCase resistance in two *Phalaris minor* populations from Iran. Proceeding of the 5th International Weed Science Congress. Vancouver, Canada.
8. **Gherekhloo, J.**, M. Rastgoo, M.H. Rashed Mohassel, M. Nasiri Mahalati, E. Zand and R. De Prado. 2008. Molecular study of resistance to Aryloxyphenoxypropionate herbicides in winter wild oat (*Avena ludoviciana* Durieu.) populations from Iran. Proceeding of the 5th International Weed Science Congress. Vancouver, Canada.
9. **Gherekhloo, J.**, E. Zand and R. De Prado. 2008. Evaluation the efficacy of some different mode of action herbicides for control the susceptible and resistant canarygrass (*Phalaris*

- spp.) biotypes to clodinafop-propargyl. Proceeding of the 5th International Weed Science Congress. Vancouver, Canada.
10. Cruz-Hipólito H. E., R. Vidal, M. M. Trezzi, D. Gil, **J. Gherekhloo**, J.P. Ruíz-Santaella, R. De Prado. 2008. Multiple resistance to glyphosate and ALS inhibitors in *Euphorbia heterophylla* L. from Brazil. Proceeding of the 5th International Weed Science Congress. Vancouver, Canada.
 11. **Gherekhloo, J.**, E. Zand, F. Gonzáles-Torralva and R. De Prado. 2009. Herbicide-Resistant Weeds in Iran: A short Review. XIIIth International Conference on Weed Biology. Dijon, France.
 12. Gonzáles-Torralva, F., H. E. Cruz-Hipólito, **J. Gherekhloo**, M. J. Martínez-Cordón and R. De Prado. 2009. Use of glufosinate ammonium in the control of *Conyza* spp. at different growth stages. Congresso de la SEMh/ XIX Congresso de la ALAM / II Congresso de la IBCM. Lisbon. Portugal.
 13. Sohrabi, S., M.H. Rashed Mohassel, M. Nassiri Mahallati, S.K. Mousavi, **J. Gherekhloo**. 2009. Effect of pre-chilling and tuber size on Lesser celandine (*Ranunculus ficaria*) germination of tuberous root. XIIIth International Conference on Weed Biology. Dijon, France.
 14. Gonzáles-Torralva, F., H. E. Cruz-Hipólito, **J. Gherekhloo**, M. J. Martínez-Cordón and R. De Prado. 2009. Use of glufosinate ammonium in the control of *Conyza* spp. at different growth stages. Congresso de la SEMh/ XIX Congresso de la ALAM / II Congresso de la IBCM. Lisbon. Portugal.
 15. **Gherekhloo J.**, M. D. Osuna, F. Barro and R. De Prado. The spread of resistance to ACCase inhibiting herbicides in *Phalaris minor* in Iran. 2010. Weed Science Society of America Annual Meeting. Denver, Colorado. USA.
 16. De Prado, J. L., Cruz-Hipolito, H., **Gherekhloo, J.**, and De Prado, R. 2010. Differences in levels of tolerance to glyphosate in grass weeds in Spain. 62nd International Symposium on Crop Protection Gent, Belgium (Oral presentation).
 17. **Gherekhloo, J.**, Franco, A. R. and De Prado, R. 2010. Fate of diclofop-methyl in *Phalaris minor* biotypes from Iran. 62nd International Symposium on Crop Protection Gent, Belgium.
 18. Golchin, E., **J. Gherekhloo** and F. Salahi. 2011. Impact of crop and weed densities on competition between canola and turnip weed (*Rapistrum rugosum*). 3rd International Weed Science Conference. April 18-20. Peshawar, Pakistan.
 19. Golchin, E. and **Gherekhloo, J.** and Salahi, F. 2011. Turnip weed (*Rapistrum rugosum*) competition and its economic threshold on the canola (*Brassica napus* L.). 9th Workshop of the EWRS Working Group: Physical and Cultural Weed Control. 28 – 30 March. Samsun, Turkey.
 20. Salamati, N., Tahmasebi, M., **Gherekhloo, J.** and Latifi, N. 2011. Investigation of row spacing effect on competitive ability of canola (*Brassica napus*) in competition to wild mustard (*Sinapis arvensis*). 9th Workshop of the EWRS Working Group: Physical and Cultural Weed Control. 28 – 30 March. Samsun, Turkey.
 21. Sohrabi, S., Ghanbari, A., Rashed Mohassel, M. H., Nassiri Mahalati, M., **Gherekhloo, J.** and De Prado, R. 2011. Cardinal temperatures of three invasive weeds in Iran. 3rd International Symposium on Environmental Weeds and Invasive Plants. 2-7 October, Monte Verità, Ascona, Switzerland.

22. Sohrabi, S., Ghanbari, A., Rashed Mohassel, M. H., Nassiri Mahalati, M. and **Gherekhlou, J.** 2012. Effect of depth of planting on emergence of smellmelon (*Cucumis melo*) and lesser

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- cleandine (*Ranunculus ficaria*). Proceeding of the 6th International Weed Science Congress. 17-22 June, Hangzhou, China. P:8.
23. Ghorbanpour, E., Ghaderifar, F., **Gherekhlou, J.** 2012. Effect of velvetleaf density (*Abutilon theophrasti*) on cotton (*Gossypium hirsutum* L.) planted in ultra-narrow and conventional row spacings. Proceeding of the 6th International Weed Science Congress. 17-22 June, Hangzhou, China. P: 24.
24. Derakhshan, A., and **Gherekhlou, J.** 2012. Tribenuron-methyl resistant turnipweed (*Rapistrum rugosum*) From Iran. Proceeding of the 6th International Weed Science Congress. 17-22 June, Hangzhou, China. P: 72.
25. Sohrabi, S. and **Gherekhlou, J.** 2012. Effect of drought stress on seed germination of *Prosopis farcta*. Proceeding of International Symposium on Current Trends in Plant Protection. 25 – 28 September, Belgrade, Serbia.(CAB).
26. Yousefi, M., Kamkar, B., **Gherekhlou, J.**, Faez, R., and Sardaghi, M. 2012. The effect of different cultivation methods on soil microbial respiration and organic C content as two main components for alleviating soil degradation. Proceeding of 8th International Soil Science Congress on "Land Degradation and Challenges in Sustainable Soil Management", Izmir Turkey, May 15-17.
27. Kalami, R., **Gherekhlou, J.**, Kamkar, B., Esfandiaripour, E., and De Prado, R. 2014. Identifying and mapping of wild oat (*Avena ludoviciana* Dur.) and *Phalaris minor* Retz. populations resistant to clodinafop-propargyl in wheat fields of Kordkuy. 248th ACS National Meeting and Exposition, August 10-14, 2014, San Francisco, CA. Chemistry and Global Stewardship.
28. Hatami, Z., **Gherekhlou, J.**, Rojano-Delgado, A. M., De Prado, R., and Sadeghi pour, H.R. 2014. Investigating resistance of suspected resistant biotypes of wild mustard (*Sinapis arvensis* L.) to tribenuron-methyl collected from wheat fields of Iran. 248th ACS National Meeting and Exposition, August 10-14, 2014, San Francisco, CA. Chemistry and Global Stewardship.
29. Sohrabi, S., **Gherekhlou, J.**, and Amini, F. 2014. The invasive weeds of Iran. International Conference on Biological Invasions from understanding to action. November, Antalya, Turkey. Page 156.
30. Sohrabi, S., Ghanbari, A., Mohassel, M.H. R. and **Gherekhlou, J.** 2014. Phenological characteristics of the invasive weed *Cucumis melo*. 26th German Conference on Weed Biology and Weed Control, Braunschweig, Germany, 11-13 March.
31. **Gherekhlou, J.**, Fernandez-Moreno, P. T., Dominguez-Valenzuela, J. A., Cruz-Hipolito, H. E., Smeda, R. J., De Prado, R. 2016. First Case of Glyphosate Resistance in Palmer Amaranth (*Amaranthus palmeri*) from Mexico. 71st Annual Meeting North Central Weed Science Society.

32. Taheri, M., **Gherekhlou, J.**, Siahmarguee, A., Ansari, O., Fernandez-Moreno, P.T., De Prado, R. 2017. Quantifying the germination response of sea barley (*Hordeum marinum*) to temperature. Annual meeting of the Weed Science Society of America will be held February 6-9 in Tucson, Arizona (Hilton El Conquistador).
33. Ansari, O., **Gherekhlou, J.**, Kamkar, B., GhaderiFar, F., Fernandez-Moreno, P.T., De Prado, R. 2017. Effect of Salinity on Cardinal Temperature of *Malva sylvestris*. Annual meeting of the Weed Science Society of America will be held February 6-9 in Tucson, Arizona (Hilton El Conquistador).

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34. Akhundi, S., **Gherekhlou, J.**, Bagherani, N., Soltani, A., Fernandez-Moreno, P.T., De Prado, R. 2017. Effect of 2,4-D and Sulfosulfuron herbicides tank mix on wild mustard (*Sinapis arvensis* L.). Annual meeting of the Weed Science Society of America will be held February 6-9 in Tucson, Arizona (Hilton El Conquistador).
35. Hejazirad, P., **Gherekhlou, J.**, Momeni, A., Bagherani, N., Soltani, A. and Zeinali, E. 2021. The effect of pre- and post emergence herbicides on yield, dry weight and crop growth rate of aerobic rice in seeding and transplanting cultivation system. 9th Iranian Weed Science Congress, 16&17 Nov. 2021. Tehran, Iran. Pp: 346-351.
36. Hassanpour bourkheili, H., **Gherekhlou, J.**, Taheri, M., and Sheikh, F. 2021. Effect of some herbicides on dry weight and grain yield of some faba bean lines. . 9th Iranian Weed Science Congress, 16&17 Nov. 2021. Tehran, Iran. Pp: 362-367.
37. Tavassoli, A., **Gherekhlou, J.**, Ghaderifar, F., Zand, E. and Osuna, M.D. 2021. Rapid test for detecting clodinafop propargyl resistance in ryegrass (*Lolium rigidum* Gaud) biotypes gathered from fields of Golestan province. 9th Iranian Weed Science Congress, 16&17 Nov. 2021. Tehran, Iran. Pp: 573-578.
38. Baei, E., Siahmarguee, A., **Gherekhlou, J.** and Kazemi, H. 2021. Evaluation of efficacy of cover crops of mung bean (*Vigna radiata* L.) and millet (*Panicum miliaceum* L.) on weed control and faba bean (*Vicia faba* L.) yield at different growth row spacings. 9th Iranian Weed Science Congress, 16&17 Nov. 2021. Tehran, Iran. Pp: 683-688.
39. Gherekhlou, J. 2023. Weeds resistant to herbicides in wheat fields of Golestan province: monitoring to management. 1th symposium on weed resistance in Iran, Tehran,(Oral presentation).

ACADEMIC TEACHING EXPERIENCE:

| Course title | Degree |
|-----------------------------------|---------------|
| Weeds and their management | B.Sc. |
| Botany (Plant anatomy) | B.Sc. |
| Botany(Morphology and Systematic) | B.Sc. |
| Plant and herbicide physiology | M.Sc. |
| Ecological weed management | M.Sc. |
| Competition physiology | M.Sc. |
| Weed eco-physiology | M.Sc. |
| Herbicides and their application | M.Sc. |
| Plant eco-physiology | Ph.D. |
| Herbicide resistance | Ph.D. |
| Weed management | Ph.D. |

SERVICE AND PROFESSIONAL MEMBERSHIP:

Membership of the scientific communities:

1. Member of Iranian Weed Science Society (Since 2003).
2. Member of Iranian Scientific Society of Agroecology (Since 2010).
3. Member of the research group "Grupo de Investigación; Junta de Andalucía, proyectos PAI: AGR-197" (since 2008).
4. Vice president of the Iranian Weed Science Society. 2017-2021.
5. Member of the editorial board for Iranian Journal of Weed Science. 2017-Present. Scientific courses:

1. Attending the course "Statistics and dose-response curves" presented by Profs. Streibig and Ritz, Bari, Italy. 2005.
2. Lecturing at the 1st educational workshop on "Statistical evaluation of dose-response curves".
3. Using R software and drc package. Faculty of Agriculture, Ferdowsi University of Mashhad, Iran.
4. Lecturing statistics (regression analysis) at the 2nd educational workshop on "Statistical evaluation of dose-response curves using R software and drc package. Islamic Azad University, Karaj Branch. 2006.
5. Lecturing on the drc package, R software at the 5th Iranian Weed Science Congress. Karaj, Iran. 2003.

Executive background:

1. Director of research affairs, technology and industrial relations, Gorgan University of Agricultural Sciences and Natural Resources. June 2019- Present.
2. Vice dean for education and research, Plant Production Faculty, Gorgan University of Agricultural Sciences and Natural Resources. February 2017-June 2019.
3. Reviewer at the 9th Iranian Weed Science Congress, Tehran, Iran. 2021.

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4. Reviewer at the 6th Iranian Weed Science Congress, Mashhad, Iran. 2019.
5. Editor of the 7th Iranian Weed Science Congress, Gorgan, Iran. 2017.
6. Member of the board of directors for Iranian Weed Science Society. 2010-2013.
7. Reviewer at the 6th Iranian Weed Science Congress, Birjand, Iran. 2015.
8. Reviewer at the 4th Iranian Weed Science Congress, Ahvaz, Iran. 2011.
9. Collaboration at "Integrated Weed Management" workshop. Mashhad, Iran. 2004.
10. Member of the committee for the 2nd International Saffron Congress, Mashhad, Iran. 2006.
11. Member of the committee for the 2nd Iranian Weed Science Congress, Mashhad, Iran. 2007.

12. Reviewer at the 3rd Iranian Weed Science Congress, Babolsar, Iran. 2009. 13. Conducting the green belt project of Mashhad-Fariman and Mashhad-Neishabur. 1996. 14. Green space manager at Samen-Al-Hojaj Company. 2000.

AWARDS:

1. Six month sabbatical visit at the University of Cordoba, Spain supervised by Prof. De Prado. 2007.
2. Short term sabbatical at the University of Cordoba, Spain. Summer, 2011.
3. Short term sabbatical at the University of Cordoba, Spain. Summer, 2015.
4. Erasmus+ staff mobility for teaching and training, Spain. Summer, 2022.

LANGUAGES: Persian, English, Spanish



Gorgan University of Agricultural
Sciences & Natural Resources