

## Seyed Farhad Saberli

Curriculum Vitae

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### Current Position

2024- Associate Professor, Department of Agronomy, Faculty of Agriculture, Tarbiat Modares University

### Education

2012-**Ph.D.** in Crop ecology, Tarbiat Modares University, Tehran, Iran.

Thesis: "The study and simulation of competitiveness in two dry bean (*Phaseolus vulgaris* L.) genotypes in response to N rates and weed competition pressure"

2006- **M.S.** in Agronomy, University of Tehran, Tehran, Iran.

Thesis: "Influence of corn density and planting pattern on the competition of common lambsquarters (*Chenopodium album* L.)"

2002- **B.S.** in Agronomy, Azad University, Isfahan, Iran.

### Visiting Scholars Program

2011- "Training program on crop modeling and the decision support system for agrothechnology transfer (DSSAT)", AgWeatherNet Washington State University, Prosser, Washington, USA. March 5- December 5.

### Participation in International Workshops

Computational Tools for Climate Science: Climatematch Academy (July 17-28, 2023)

### Publications

#### Peer-Reviewed Journal Articles

- 1- **Saberli, S. F.**, S. A. Sadat Noori, J. Khazaei, A. Hejazi. 2007. Artificial neural network modelling of common lambsquarters biomass production response to corn population and planting pattern. *Pakistan Journal of Biological Sciences*, 10, 326-334.
- 2- **Saberli, S. F.**, Baghestani M. A., Zand A. 2008. Influence of corn density and planting pattern on growth of common lambsquarters (*Chenopodium album* L.). *Weed Biology and Management*, 8, 54-63.
- 3- Mahdavi, B., Modarres-sanavy, A. M., **Saberli, S. F.**, Dolatabadian A. 2010. Influence of root zone temperature on growth and nitrogen fixation in three Iranian grasspea landraces. *Acta Agriculturae Scandinavica, Section B- Soil and Plant Science*, 60: 40-47.
- 4- Mansouri-Far, C., Modarres-sanavy, A. M., **Saberli, S. F.** 2010. Maize yield response to deficit irrigation during low-sensitive growth stages and nitrogen rate under semi-arid climatic conditions. *Agricultural Water Management*, 97: 12-22.

- 5- Jalilian, J., Modarres-sanavy, A. M., **Saberli, S. F.** 2012. Effects the combination of beneficial microbes and nitogen on sunflower seed yields and seed quality traits under different irrigation regimes. *Field Crops Research*, 127, 26-3.
- 6- **Saberli, S. F.**, Modarres-sanavy, S. A. M., Bannayan, M., Baghestani, M. A., Rahimian, H., Hoogenboom, G. 2012. Dry bean competitiveness with redroot pigweed as affected by growth habit and nitrogen rate. *Field Crops Research*, 135, 38–45.
- 7- Mohammadia, K., Rokhzadia, A., **Saberli, S. F.**, Byzedic, M. and Tahsin Karimi Nezhad M. 2012. Tillage effects on soil properties and wheat cultivars traits. *Archives of Agronomy and Soil Science*. 59, 1625-1641.
- 8- Shamsabadi, V., Mohamadianfar, A., **Saberli, S. F.**, Mirzaei, S. M. J. 2015. Quantifying ecological sustainability for melon agroecosystems at Iran: a regional case study in Khorasan Razavi. *International Journal of Agriculture Innovations and Research* 3, 1378-1381.
- 9- Shamsabadi, V., Mohamadianfar, A., **Saberli, S. F.**, Haghayegh, G., Mirzaei, S. M. J. 2015. Assessing ecological sustainability of wheat production systems: a regional case study in Khorasan Razavi, Iran. *Journal of Biodiversity and Environmental Sciences* 6, 57-64.
- 10- **Saberli, S. F.**, Mohammadi, .Kh. 2015. Organic amendments application downweight the negative effects of weed competition on the soybean yield. *Ecological Engineering*. 82, 451–458.
- 11- **Saberli, S. F.**, Modarres-sanavy, S. A. M., Bannayan, M., Aghaalikhani M., Haghayegh, G., Hoogenboom, G. 2016. Common bean canopy characteristics and N assimilation as affected by weed pressure and nitrogen rate. *Journal of Agricultural Science*. 154, 598–611.
- 12- Moradi M., Nastari-Nasrabadi, H., **Saberli, S. F.**, and Modoodi, M.N. 2016. Influence of different priming treatments on the germination and seedling growth of *Phlomis cancellata*. *Journal of Research in Ecology*. 4, 326-331.
- 13- Karandish, F., Kalanaki, M. and **Saberli, S. F.** 2017. Projected impacts of global warming on cropping calendar and water requirement of maize in a humid climate. *Archives of agronomy and soil science*. 63, 1-13,
- 14- Moradi M., Nastari-Nasrabadi, H., **Saberli, S. F.**, and Shirmohammadi-Aliakbarkhani Z. 2019. Effect of salicylic acid on seed germination and seedling growth of Moldavian balm (*Dracocephalum moldavica* L.) under salt stress. *Journal of Research in Ecology*. 6, 1534-1544.
- 15- **Saberli, S.F.**, Moradi, M. 2019. Effect of salinity on germination and seedling growth of *Trigonella foenum-graecum*, *Dracocephalum moldavica*, *Satureja hortensis* and *Anethum graveolens*. *Journal of the Saudi Society of Agricultural Sciences*. 18, 316–323.
- 16- Modoodi, M.N, Nastari-Nasrabadi, H., Moradi M., and **Saberli, S. F.** 2019. Interaction effect between humic acid and salicylic acid on seed germination and seedling growth of *Capsicum annuum* under salt stress. *Journal of Research in Biology* 9, 2675-2684.
- 17- **Saberli, S. F.**, Mohammadi, Kh. 2019. The above-ground competition between common bean (*Phaseolus vulgaris* L.) and barnyardgrass (*Echinochloa crus-galli* L.) affected by nitrogen application. *Phytoparasitica*, 47:451–460.
- 18- **Saberli, S. F.**, Shirmohammadi-Aliakbarkhani Z. 2020. Quantifying seed germination response of melon (*Cucumis melo* L.) to temperature and water potential: Thermal time, hydrotime and hydrothermal time models. *South African Journal of Botany*, 130, 1-10.

- 19- Shirmohammadi-Aliakbarkhani Z., **Saberli, S.F.** 2020. Evaluating of eight evapotranspiration estimation methods in arid regions of Iran. *Agricultural Water Management*. 239, 236-243.
- 20- Asgari, A., Darzi-Naftchali, A., Nadi, M., and **Saberli, S.F.** 2020. Improvement in canola yield and growth indices and water-use efficiency with subsurface drainage in a humid climate. 19, pages23–33. *Paddy and Water Environment*. <https://doi.org/10.1007/s10333-020-00817-4>.
- 21- Etmnani, A., Mohammadi, Kh., and **Saberli, S.F.** 2020. Effect of organic and inorganic amendments on growth indices and seed yield of red kidney bean (*Phaseolus vulgaris*) in competition with *Amaranthus retroflexus*. *Journal of Plant Nutrition*. 44, 421-437. <https://doi.org/10.1080/01904167.2020.1822398>
- 22- **Saberli, S. F.**, Shirmohammadi-Aliakbarkhani, Z., & Nastari Nasrabadi, H. 2022. Simulating winter wheat production potential under near-future climate change in arid regions of northeast Iran. *Theoretical and Applied Climatology*, 148, 1217–1238. <https://doi.org/10.1007/s00704-022-04005-8>.
- 23- Asgari, A., Darzi-Naftchali, A., **Saberli, S.F.**, Nadi, M. 2022 Assessing DSSAT performance for predicting yield and water productivity of rainfed canola in a subsurface-drained field. *Theoretical and Applied Climatology*, 149, 1659–1670. <https://doi.org/10.1007/s00704-022-04132-2>
- 24- Saberli, S.F., Darzi-Naftchali, A., 2024. The analysis of yield gap and the assessment of the relative importance of yield gap explaining factors in paddy fields. *European Journal of Agronomy*, 156, 127172.

### **Invited Talks**

2020 –Workshop, “Using the DSSAT model to simulate crop growth and yield”. Agronomy Department, Tarbiat Modares University. Tehran, January, 25-26

2019- Workshop, “Using the DSSAT model to simulate crop growth and yield”. Agronomy Department, Shiraz University. Shiraz, January, 6-7.

### **Teaching Experience**

#### **University**

Undergraduate courses

Crop ecology. Tarbiat Modares (2023).

Crop modeling (2021-2023)

Crop physiology - University of Torbat-e Jam (2012-2023).

Crop production. University of Torbat-e Jam (2014-2023).

Soil-water-plant relationship. University of Torbat-e Jam (2016-2023).

#### **Graduate student and Senior Thesis Supervision**

2014-2016 – MS thesis advisor. “Evaluation of CERES-Rice model for simulating nitrate losses through subsurface drains in paddy field”. Sari Agricultural Sciences and Natural Resources University. Sari, Iran.

2014-2016– MS thesis advisor. Study of competition between common bean (*Phaseolus vulgaris* L.) and barnyardgrass (*Echinochloa crus-galli* L.) affected by nitrogen application. Azad University. Sanandaj, Iran.

2015-2018– MS thesis supervisor. Evaluation of growth and yield responses in red kidney bean to nitrogen fertilizer and irrigation water. Payame Noor University. Karaj, Iran.

2015-2020– PhD thesis advisor. The effect of biochar, manure and compost on the competitiveness of red kidney bean against *Amaranthus retroflexus*. Azad University. Sanandaj, Iran.

2016-2018 – MS thesis advisor. Effects of windbreak crops on qualitative and quantitative growth of melon (*Cucumis melo* L.). Guilan University. Rasht, Iran.

2016-2020 – PhD thesis advisor. “Study of canola yield and water use efficiency by DSSAT model in different subsurface drainage systems and climate change conditions”. Sari Agricultural Sciences and Natural Resources University. Sari, Iran.

2018-2020– MS thesis advisor. Evaluation of some quantitative and qualitative traits of pistachio in response to foliar application of amino acid compounds and seaweed extract. Ferdowsi University of Mashhad. Mashhad, Iran.

2019-2022– MS thesis advisor. Simulating yield response of winter canola to near-future climate change in Fars providence. Shiraz University. Shiraz, Iran.

2021-2023– PhD thesis advisor. Simulating growth and yield response of winter canola to nitrogen management. University of Tehran. Tehran, Iran.

### **National Research Experience**

2019-2020 - Research project manager of “**Rice yield gap analysis in Mazandaran province**”. A national project supported by Ministry of Agriculture of Iran, Iran.

### **Technical skills:**

Mastery of Microsoft Office programs (Word, Excel, PowerPoint).

Mastery of DSSAT and experience with APSIM.

Experience with Python for programing and data analysis

Ability to work with SAS for data analysis.

### **References:**

#### **Gerrit Hoogenboom**

Preeminent Scholar, Institute for Sustainable Food Systems

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#### **Mohammad Bannayan**

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