

CURRICULUM VITAE



Shadman Veysi

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Date of Birth: 22 September 1985

Educational Background

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| 2012-2017 | Ph.D., Shahid Chamran University, Ahwaz, Iran
Faculty of Water Science Engineering (Irrigation and Drainage),
(Major: Remote Sensing For Irrigation),
Supervisor: Dr. A. A. Naseri
Ph.D. Thesis: "Detecting sugarcane water stress using field measurements and satellite data for irrigation scheduling." |
| 2010-2012 | M.Sc., Shahid Chamran University, Ahwaz, Iran
Faculty of Water Science Engineering (Irrigation and Drainage)
(Major: water allocation),
Supervisor: Dr. S. Boroomand-Nasab
M.Sc. Thesis: "Optimizing water allocation from Jarrah Dam to the RamHormoz irrigation system." |
| 2005-2009 | B.Sc., University of Razi, Kermanshah, Iran
Faculty of Water Science Engineering
(Major: water Quality),
Supervisor: Dr. A. Azari
B.Sc. project: "Time series investigation of the BOD and COD levels in the Sirvan River at the Paveh-Rood station." |

Research Interests

- Detection crop water stress index (CWSI) using remote sensing data
- Reanalysis dataset like ERA5, ERA5-Land, WaPOR
- Water productivity with the approach of water saving
- Integrated water resource management (IWRM) using remote sensing data
- Estimation soil moisture using remote sensing data and Reanalysis dataset
- Water-Energy-Food nexus for irrigation and drainage system
- Crop Water Requirement
- Soil-Plant-Water relations

Projects

- ✓ A temporal trend of reference evapotranspiration (ET₀) using WaPOR dataset in Iran from 2009-2020 (2019-2021/ Supervisor)
- ✓ Evaluation of distance and depth of subsurface drainage in Khuzestan province (2012-2013/executor of the project).
- ✓ "Assessed the performance of the subsurface Collectors in the Salman Farsi Agro-industry in the south of Ahvaz." (2014-2015/Project manager).
- ✓ "Optimized the length and width of irrigation plots in the basin irrigation system." (2015/colleague of the project)

Honors

- Ranked 1st in Iran's National University Entrance Examination for Ph.D. students.
- Member of talented students in the M.Sc. and Ph.D.
- Member of talented National Elite Foundation

Teaching Experience

- "Daily workshop on 'Pressurized Irrigation Methods and Improvement of Water Productivity (Winter 2020)' at the Kurdistan Agricultural and Natural Resources Research and Education Center."
- "Daily workshop on 'Training for the Operation and Maintenance of Irrigation and Drainage Systems (Winter 2021)' at the Kurdistan Agricultural and Natural Resources Research and Education Center."
- "Daily workshop on 'Deficit Irrigation Methods and Crop Water Response.' (winter 2022) 'at the Kurdistan Agricultural and Natural Resources Research and Education Center."

Publications

Journal Articles:

Veysi, S., Heidari Motlagh, A., Nasrolahi, A. H., & Safi, A. R. (2023). A new approach to estimate daily evapotranspiration, based on Landsat data and FAO56 principles. *International Journal of Remote Sensing*, 44(15), 4727-4752

Veysi, S., Nouri, M., Jabari, A., (2023). Reference evapotranspiration estimation using Reanalysis and WaPOR products in dryland Croplands, *Heliyon*, (Under review).

Veysi, S., Galehban, E., Nouri, M., Mallah, S. Developing a Framework to interpret of WaPOR Water Productivity, *Agricultural Water Management*, (under review).

Galehban, E., Hamzeh, S., **Veysi, S.**, Alavipanah, S, K. (2023). Toward role of Gridded dataset to better management of transboundary water resources conflicts, *Journal of Hydrology: Regional Studies*. (Under review).

Hosseini, S. N., Fattahi, R., Ebrahimipak, N., & Veysi, S. (2023). Estimation and evaluation of reference evapotranspiration using ERA5 dataset. *Iranian Journal of Soil and Water Research*, 54(2), 353-368.

Heidari Motlagh, A., Nasrolahi, A., Veysi, S., & Sharifipour, M. (2023). The influence of land surface temperature (LST) on estimated actual evapotranspiration. *Iranian Journal of Soil and Water Research*, 53(12), 2701-2720.

Barideh, R., **Veysi, S.**, Ebrahimipak, N., & Davatgar, N. (2022). The challenge of reference evapotranspiration between the WaPOR data set and geostatistical methods. *Irrigation and Drainage*, 71(5), 1268-1279.

Galehban, E., Hamzeh, **S.**, **Veysi, S.**, & Alavipanah, S. K. (2022). Estimation of Daily Reference Evapotranspiration Using Remote Sensing Data (Case Study: Sistan and Baluchestan Province). *Iranian Journal of Remote Sensing & GIS*, 14(2), 37-50.

Heidari Motlagh, A., Nasrolahi, A., Sharifipour, M., & **Veysi, S.** (2021). Evaluation of Different Models for Estimating Reference Evapotranspiration (ET₀) in Aleshtar Plain. *Iranian Journal of Soil and Water Research*, 52(5), 1409-1421.

Veysi, S., Naseri, A. A., & Hamzeh, S. (2020). Relationship between field measurement of soil moisture in the effective depth of sugarcane root zone and extracted indices from spectral reflectance of optical/thermal bands of multispectral satellite images. *Journal of the Indian Society of Remote Sensing*, 48, 1035-1044.

Veysi, S., Naseri, A.A., Hamzeh, S. and Bartholomeus, H., (2017). A satellite-based crop water stress index for irrigation scheduling in sugarcane fields. *Agricultural water management*, 189, pp.70-86.

Veysi, S., Naseri, A.A., Hamzeh, S. (2017). Relationship between vegetation water content (VWC) and crop water stress index (CWSI) using an infrared thermometer. *Irrigation Science and Engineering*, 40(1), 152–165.

Veysi, S., Naseri, A.A., Hamzeh, S. (2017). Determination irrigation time for sugarcane fields using an infrared thermometer and soil moisture in the root zone, *J. of Water and Soil Conservation*.

Veysi, S., Naseri, A.A., Hamzeh, S. (2016). Estimation of sugarcane field temperature using split window algorithm and OLI-Landsat 8 satellite images. *JOURNAL OF RS AND GIS FOR NATURAL RESOURCES*, 7(1), 27-40.

Sharifipour, M., Naseri, A., Jafari, S., **Veysi, S.**, Khodamoradi, S., Abedi, M., Khodamoradi, M., Ghorbani, E., Bozorgmanesh, M., Emami, A. and Pirmoradi, A., (2013). A mathematical model to estimate drain water quality in saturated soils and its comparison with field experiments south of Khuzestan. *Rep. Opin. J*, 5(1), pp.1-6.

Hooshmand, A., **Veysi, S.** and Moradzadeh, M., (2012). Investigation of groundwater salinity resources using GIS (Case study: Gotvand-Aghili plain). *Advances in Environmental Biology*, 6(2), pp.629-635.

Boroomand-Nasab, S., **Veysi, S.** and Veysi, M., (2012). Optimization of Release from Dam Reservoirs to the Agriculture Demands (Case study: Jarreh dam to Ramhormoz Irrigation and drainage network, Khuzistan). *Report and Opinion*, 4(6), pp.53-58.

Moazed, H., Moradzadeh, M., **Veysi, S.**, Kaboli, H.S. and Salarijazi, M., (2012). Analysis of drought return periods in Khuzestan province, southwest of Iran. *J. Food Agric. Environ*, 10(1), pp.642-645

Naseri, A.A., Mohsenimowahed, A., Hawasipoor, E., **Veysi, S.** and Albaji, M., (2012). Sugarcane plantation effects on the soil hydraulic conductivity in South-West of Iran. *African Journal of Agricultural Research*, 7(7), pp.1098-1103.

Joudi, L., **Veysi, S.** and Judy, F., (2011). Irrigation Water Productivity and Water Use Efficiency of Sugarcane Plants under Drought Conditions (Case Study in Farabi Agro-Industry Lands). *Current Research Journal of Biological Sciences*, 3(6), pp.550-554.

Chapter Book

- **Veysi, S., Galehban, E.**, Conceptual of soil moisture based on remote sensing and reanalysis dataset, Elsevier, under publish
- **Veysi, S., Galehban, E.**, Land Surface temperature and related issues, Elsevier, under publish

Involvement in Graduate Research

- ❖ Spatial and Temporal Changes in Agricultural Water Resources in Helmand Basin Using Multi-Satellite data and Water Accounting Principles (2019-2021/ Co-Supervisor)
- ❖ "Determined actual evapotranspiration of alfalfa using field measurements and Landsat 8 data." (2019-2021/ Co-Supervisor)

- ❖ "Estimated effective rainfall for rain-fed lands using remote sensing data." (2020,2022/ Co-Supervisor)

Professional Experience

- Irrigation Designer of the irrigation and drainage system for the Karkheh dam in the 55,000-hectare project from 2015 to 2018 in Khuzestan province
- Assistant professor in the Department of irrigation and soil physics, Soil and Water Research Institute (SWRI), Alborz, Karaj from 2019 until now.

Relevant Skills

- Microsoft Office, ERDAS imagine, Google Earth Engine(GEE), Aqua Crop, ArcGIS

Language

Persian: Native

Kurdish: Native

English: Good command