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EDUCATION

Ph. D. in “*Watershed Management Science and Engineering*” 2006- February 2011

The Science and Research Branch Islamic Azad University

Department of Natural Resources and Environment

Ph.D. Dissertation topics:

Determining the Hydrograph of Urban Basin Using Morphological Parameters case study Baharestan city, Isfahan, Iran.

Advisor: Prof. M. Mahdavi, Prof A. Salajegheh, Prof. S. Eslamian, GPA 4.54

M.Sc. in “*Natural Resources engineering Watershed management*” 2003-2005.

Mazandaran University

Department of Natural Resources

M.Sc. Thesis and projects:

Investigation of the effect of geological formations on sediment yield and erosion of Lar basin

Advisors: Prof. K. Soleimani, R. Mosavi, S. Feiznia, GPA 18.36 out of 20

B.Sc. in “Natural Resources Engineering (Range land and watershed management) 1999- 2003.

Isfahan University of technology

Department of Natural Resources

B.Sc. Thesis:

Investigation of Vegetation and rangeland assessment of Kharkesh basin

Advisor: Dr. S. Soltani, GPA 15.78 out of 20

RESEARCH INTERESTS

- Watershed management
- Hydrology
- GIS and RS
- Water resource management
- Climate change

REFEREED JOURNAL PUBLICATIONS

Z Khorsandi Kouhanestani, M Mahdavi, A Salajegheh, S Eslamian, 2011, Neural Network Application for Monthly Precipitation Data Reconstruction, Journal of Environmental Hydrology, Vol. 19, Paper 5.

Z Khorsandi Kouhanestani, M Mahdavi, A Salajegheh, S Eslamian, 2016, Runoff Estimation of Urban Catchment Using Urbs-Uh Model (Case Study Baharestan City) Journal of Range and Watershed Management (Iranian Journal of Natural Resources), 39 (1), 39-50.

Z Khorsandi Kouhanestani, M Zolfaghari, 2016, Investigating the Effect of Spatial Distribution of Permeable Surfaces on Peak Flow Hydrograph Flow in Urban Areas, *International Bulletin of Water Resources and Development*, 1(13), 237-245.

M Nasiri Ahangar, S Dehdari, Z Khorsandi Kouhanestani, F Noedoost, 2017, Investigating Allelopathic Effects of *Artemisia sieberi* on Seed Germination and Seedling Growth Indices of Three Alfalfa Species. *Journal of Rangeland Science*, 7(2): 172-182.

Z Khorsandi Kouhanestani, S Dehdari, F Taatpour, 2017, Evaluation of Spatial Interpolation Methods for Some Groundwater Qualitative Parameters of Najafabad Plain, Isfahan, *Modeling Earth Systems and Environment* 3 (4), 1441-1448.

F Zandi Dareh Gharibi, Z Khorsandi Kouhanestani, M Mozayan, N Arman, 2017, Evaluating the Proficiency of GR2M and GR4J Rainfall-Runoff Models in Darehtakht Basin Runoff Simulation, *Watershed Engineering and Management* 9 (3), 360-370.

F Zandi Dareh Gharibi, Z Khorsandi Kouhanestani, M Mozayan, N Arman, 2017, Comparing the Performance of Two Hydrological Models, IHACRES and GR2M for Simulating Monthly Flow of Dareh-Takht Basin, *Irrigation Sciences and Engineering*, 40 (2), 147-158.

S Dehdari, Z. Khorsandi Kouhanestani, F Shojaei, R Kazemi, 2017, Studying the Effects of Using Zeolite on Performance of Pasture Species: *Cymbopogon Olivieri*, *Medicago Sativa*, And *Medicago Scutellata*, *Journal of Range and Watershed Management (Iranian Journal of Natural Resources)*, 70(2), 333-344.

Z Faghfour, N Arman, M Faraji, Z Khorsandi Kouhanestani, 2017, Identifying the Effective Factors on Sediment Yield Using Statistical Method, Case Study: Seyed Abad Basin. *Watershed Engineering and Management*, 9(2), 190-204.

Z Khorsandi Kouhanestani, S Dehdari, F Shojaei, 2017, A review of seed dormancy breaking methods of 79 common rangeland plant species, *Journal of Forests and Rangelands*, 114.

Z Khorsandi Kouhanestani, S Dehdari, M Jafarizadeh, 2018, Performance evaluation of green roofs in urban runoff reduction, *International Journal of Human Capital in Urban Management* 3 (1), 61-68.

F Shojaei, S Dehdari, Z Khorsandi Kouhanestani, 2018, Economic Effects of Land Use and Land Cover Changes through Remote Sensing Techniques and Survey Studies, *Behbahan, Physical Geography Research Quarterly* 50 (3), 531-543.

S Dehdari, M Movaghari Rodposhti, Z Khorsandi Kouhanestani, A., Ehsani, 2018, Effects of Grazing Intensity on Carbon Sequestration Potential in *Artemisia Sieberi* (Case study: Chah Mary Ranges in Behbahan), *Iranian Journal of Range and Desert Research*, 25(1), 227- 234.

F Taatpour, Z Khorsandi Kouhanestani, M Armin, 2019, Evaluating the Performance of Collection and Disposal of Surface Runoff Network Using SWMM Model (Case Study: The City of Likak, Kohgiluyeh and Boyer Ahmad Province). *Irrigation Sciences and Engineering*, 42(2), 33-48. doi: 10.22055/jise.2017.19100.1433.

S Malekpur larki, Z Khorsandi Kouhanestani, M Faraji, 2020, Evaluation of impacts of land use change on Shavoor River water quality, *Watershed Engineering and Management*, 12(2), 580-592.

R Kazemi, S Dehdari, D Razmjoei, Z Khorsandi Kouhanestani, 2021, study on phytoremediation ability of *Conocarpus erectus* to remove heavy metals Pb and Cd from polluted effluents of Ramin Power Plant in Ahvaz, Khuzestan, *Quarterly Journal of Environmental Science and Technology*, (articles ready to be published).

PROFESSIONAL PAPERS

Z. Khorsandi Kouhanestani, M Nasri, Y Moradi, 2007, Drought and Socio-Economic Crises in Watersheds (Case study of Azaran watershed in Kashan), 2nd International Conference on Integrated Natural Disaster Management .

H. Ghasemieh, M. Ebrahimi, Z. Khorsandi Kouhanestani, 2007, The Effect of Flood Spreading in Drought Control (Case study of Kashan), 2nd International Conference on Integrated Natural Disaster Management.

Z. Khorsandi Kouhanestani, K. Soleimani, R. Mosavi, S. Feiznia, 2007, The Effect of Geological Formations on Sediment Yield, 1nd regional seminar on water, 13 march 2007.

A. Kabir, Z. Khorsandi Kouhanestani, N. Nora, 2007, Application of GIS in Calculating Excess Precipitation, Conference on Natural Resources and Sustainable Development in Caspian Sea fields.

Z. Khorsandi Kouhanestani, K. Soleimani, R. Mosavi, S. Feiznia, 2009, Investigating the Effect of Slope and Slope Direction in Sediment Yield, National Conference on the Application of New Technology in Agricultural Sciences and Natural Resources.

Z. Khorsandi Kouhanestani, F. Mokhtari, F. Khorsandi, M. Zolfaghari, 2009, Investigating the Trend of Groundwater Level Changes Using GIS Technique (Case study of part of Shahreza plain, 01st National Conference on Hydrogeology.

F. Mokhtari, M. Khajeh bashi, Z. Khorsandi Kouhanestani, 2009, Use of Geographic Information System (GIS) and Information Technology in Identifying Groundwater Resources and Investigating Their Changes (Case study of Ardestan plain), 01st National Conference on Hydrogeology.

M. Zolfaghari, H. Barooti, H. Ghasemieh, Z. Khorsandi Kouhanestani, 2010, Evaluation of The Accuracy of Makus Method in Some Basins of Iran (Case study of Neka, Karaj, and Kasilian basin), 10th National Conference on Irrigation and Evaporation Reduction.

Z. Khorsandi Kouhanestani, P. Naeim, A. Amini, M. Zolfaghari, 2010, Water Resources Management to Reduce the Effects of Drought (With Emphasis on Artificial Feeding Projects and Flood Distribution of Shahreza Bagh Soorkh), 10th National Conference on Irrigation and Evaporation Reduction.

M. Zolfaghari, P. Geraei, Z. Khorsandi Kouhanestani, H. Ghasemieh, 2010, Investigation of Runoff Events Using Flood Hydrograph (Case study of Neka, Karaj and Kasilian representative basin), 10th National Conference on Irrigation and Evaporation Reduction.

M. Zolfaghari, A. Rezaei, M. Soleimanpour, Z. Khorsandi Kouhanestani, 2014, Evaluating the Efficiency of Cropwat Software in Semi-Arid Regions (Case study: Kurdistan province, The Second National Desert Conference with the Approach of Dry and Desert Management.

F. Taatpour, Z. Khorsandi Kouhanestani, M. Armin, 2015, Investigating Urban Runoff Management Whit Providing the Best Management Solutions, 3th Comprehensive Conference on Flood Engineering and Management.

F. Zandi Dareh Gharibi, Z. Khorsandi Kouhanestani, M. Mozayan, N. Arman, 2015, Runoff simulation in the Dareh-Takht basin using the IHAC RES model, The First National Conference on Passive Defense in Agriculture, Natural Resources and Environment with A Sustainable Development Approach.

M. Nasiri Ahangar, S. Dehdari, Z. Khorsandi Kouhanestani, F. Noedoost, 2015, Investigation of Seed Dormancy Methods Break in *Stipa Capensis*, The First National Conference on Passive

Defense in Agriculture, Natural Resources and Environment with A Sustainable Development Approach.

Z. Khorsandi Kouhanestani, F Zandi Dareh Gharibi, 2015, Investigating the Impact of Upstream Basin on Urban Basin Floods (Case Study of Baharestan City), 3th comprehensive conference on flood engineering and management.

F. Zandi Dareh Gharibi, Z. Khorsandi Kouhanestani, M. Mozaian, N. Arman, 2015, Classification of hydrological models and description of GR runoff models (GR4J, GR2M and GR1A), The First National Conference on Passive Defense in Agriculture, Natural Resources and Environment with a Sustainable Development Approach.

Z. Khorsandi Kouhanestani, F. Mokhtari, F. Khorsandi, 2019, Evaluating the Effect of Zayanderud River Drying Up on The Underground Water Quality (Case study: Najafabad and Isfahan plain) 2019 ASABE (American Society of Agricultural and Biological Engineers) Annual International Meeting.

Z. Khorsandi Kouhanestani, M. Movaghari, 2019, Economic and Social Characteristics of Moghar Ardestan Watershed, 6th Scientific Congress on the Development and Promotion of Agricultural Sciences and Natural Resources in Iran.

Z. Khorsandi Kouhanestani, A. Cheraghian, 2019, Investigation of Water Quality trend in Zaz River of Lorestan Province, 4th International Congress of Developing Agriculture, Natural Resources, Environment and Tourism of Iran.

A. Zoratipour, Z. Khorsandi Kouhanestani, 2019, Effect of Slope Length on The Volume of Surface Erosion, The First National Conference on Agricultural and Environmental Sciences in Iran, Khuzestan, Iran.

M. Movaghari, Z. Khorsandi Kouhanestani, 2020, Socio-Economic Studies of Shahid Modarres Watershed for Sustainable Management of Natural Resources, National Conference on Agricultural Industry and Commercialization, Khuzestan, Iran.

F. Mokhtari, Z. Khorsandi Kouhanestani, F. Khorsandi, 2020, Measuring the Rice Fields Area in Lenjanat County to Determine the Required Irrigation Water, Using RS and GIS Techniques, 2020 ASABE Annual International Virtual Meeting.

Z. Khorsandi Kouhanestani, A. Cheraghian, A. Zoratipour, 2020, Investigating the Effect of Watershed Management Structures on Groundwater Level Changes in Behbahan Plain, The 10th National Conference on Sustainable Agriculture and Natural Resources, Tehran, Iran.

Z. Khorsandi Kouhanestani, 2020, Hydrological Drought Monitoring in The Idenak Watershed, The 10th National Conference on Sustainable Agriculture and Natural Resources, Tehran, Iran.

Z. Khorsandi Kouhanestani, M. Movaghari, 2020, A Sensitivity Analysis of Experimental Evapotranspiration Models Developed Based on Daily Climatic Parameters (Case Study Synoptic station in Bushehr), The 10th National Conference on Sustainable Agriculture and Natural Resource, Iran.

Z. Khorsandi Kouhanestani, F. Khorsandi, F. Mokhtari, 2021, Zoning and determining the Best Indicator of Drought in Southwest Iran. In 2021 ASABE Annual International Virtual Meeting (p. 1). American Society of Agricultural and Biological Engineers.

Review

- Journal of Journal of Rangeland Science (4 papers)

- Journal of Ecohydrology (in Persian) (8 papers)
- Caspian Journal of Environmental Sciences (1 papers)
- Journal of Ecopersia (4 papers)
- Journal of Water Resources Management (3 papers)

TEACHING EXPERIENCES

Khatam Alanbia Behbahan University of Technology and Kashan University, Agricultural Science and Natural Resources University of Khuzestan. 2013-2021

Undergraduate courses:

- Climatology (18 times)
- General Hydrology (6 times)
- Applied Hydrology (3 times)
- Water Harvesting in Arid and Semi-Arid Area (5 times)
- Watershed Management (4 times)
- Soil and Water Conservation Structural (2 times)
- Water Resources in Iran (5 times)
- General Survey (1 time)
- Range Land Management (1 time)
- Remote Sensing in Natural Resources (1 time)
- General Hydraulic (4 times)
- Biological Conservation in Arid Land (1 time)
- General Geology (9 times)

Khatam Alanbia Behbahan University of Technology and Agricultural Science and Natural Resources University of Khuzestan. 2016-now.

Graduate Courses

- Flood Control (3 times)
- River Engineering (1 time)
- Biological Protection (1 time)
- Range Land Hydrology (3 times)
- Ecohydrology (2 times)
- Flood and Drought Risk Assessment (2 times)

WORK EXPERIENCE

- Assistant Professor in The Department of Watershed and Range Land Engineering at Behbahan University Of Technology, Khozestan, Sep 2013-2018.
- Assistant Professor in The Department of Nature Engineering at Agricultural Sciences and Natural Resources University of Khuzestan, Mollasani, Khuzestan, Iran, Jan 2018-Present
- Engineer, *Pouya Sabz Sepahan Company*, Isfahan, Iran. Jan 2006– Feb 2009. As an engineer.
- Self-Employment, *Abgin Sazeh Spadana*, Isfahan, Iran. Sep 2010– present. Consultant Agricultural Engineering and Natural Resources Company.
- Vermicompost producer.

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EXTENSION ACTIVITIES

Internship, *Department of Agriculture Isfahan*, Extension Section. Isfahan, Iran. May – July 2006.

SKILLS

- ***Languages:*** English, Persian (First language)
- ***Engineering:*** Auto CAD, Envi, ArcGIS, Lars WG, SDSM, Hec RAS, SWMM, SWAT, Python.
- ***Statistics:*** SPSS.