

Curriculum Vitae

Mahyar Aboutalebi

PERSONAL DETAILS

Email: mahyar.aboutalebi@gmail.com

Date of birth: 29th of January 1989

Website: m-aboutalebi.yolasite.com

Gender: Male

Address: Utah Water Research Laboratory

Nationality: Iranian

Postal Code: 84341

Languages: Persian (Native), English

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EDUCATION

PhD Student in Civil and Environmental Engineering (2016-2021)

[Utah State University](#), Logan, Utah.

Supervisor: Dr. Alfonso Torres-Rua and Dr. Mac McKee

Master of Science in Water Resources Engineering and Management (2011-2014)

College of Agriculture and Natural Resources, Faculty of Agricultural Engineering and Technology, Department of Irrigation and Reclamation Engineering, [University of Tehran](#)^{*}, Tehran, Iran.

GPA: 18.31/20

M.Sc. thesis: Multi-objective optimization of water quality monitoring network in river reservoir system under injection of sudden contamination

Supervisor: Dr. Omid Bozorg Haddad

Bachelor of Science in Water Resources Engineering and Management (2007-2011)

College of Agriculture and Natural Resources, Faculty of Agricultural Engineering and Technology, Department of Irrigation and Reclamation Engineering, [University of Tehran](#), Tehran, Iran.

GPA: 15.94/20- *GPA* (Last two year): 16.47/20

HONORS AND AWARDS

- Ranked 19th in the Wide National University Entrance Exam for Master (Konkour) of public universities, 2012.
- Awarded Full Scholarship of undergraduate Program, University of Tehran, 2007-2011.

^{*} [University of Tehran](#) is the earliest, largest, and most prestigious university of Iran.

- Ranked among top 1 percent students with more than four-hundred thousand participant in the Wide National University Entrance Exam (Konkour) for Bachelor, 2007.
- Awarded Full Scholarship of PhD Program, Utah State University, 2016-2021.

RESEARCH EXPERIENCES

- Evaluating the artificial intelligence (SVM and ANN) versus the simulation models
- Linking the simulation modelling to evolutionary optimization algorithms
- Adjusting the parameters of the simulation models by evolutionary algorithms
- Remote Sensing

RESEARCH INTEREST

- Prediction Modelling
- Optimization Algorithms
- Simulation Modelling by artificial intelligence
- Energy Efficiency
- Environmental Engineering
- Environmental Resources Management
- Flood Modelling
- Rainfall Runoff Modelling
- Surface Hydrology
- Climate Change
- Remote Sensing

PERFORMED TASKS

- Carried out TA for Water resources engineering, College of Agriculture and Natural Resources, University of Tehran, Iran, 2015 (Teacher: Dr. Omid, Bozorg Haddad, obhaddad@ut.ac.ir).
- Carried out Workshop, Faculty of environment, “The basis of optimization, evolutionary algorithms and artificial intelligence in MATLAB programming”, University of Tehran, Iran, 2015

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Member, Institute of Research Engineers and Doctors (IRED), 2014-present.
 - Member, American Society of Civil Engineers (ASCE), 2015-present.
 - Member, AGU, 2016-present
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PUBLICATIONS

- 1- **Aboutalebi, M.**, Bozorg Haddad, O., and Loaiciga, H.A., (2016). “Multi-objective design of water-quality monitoring networks in river-reservoir systems”, Journal of Environmental Engineering, DOI : 10.1061/(ASCE)EE.1943-7870.0001155. [Link](#)
 - 2- **Aboutalebi, M.**, Bozorg Haddad, O., and Loaiciga, H.A., (2016). “Simulation of methyl tertiary butyl ether concentrations in river-reservoir systems using support vector regression”, Journal of Irrigation and Drainage Engineering, DOI: 10.1061/(ASCE)IR.1943-4774.0001007. [Link](#)
 - 3- **Aboutalebi, M.**, Bozorg Haddad, O., and Loaiciga, H.A., (2015). “Optimal monthly reservoir operation rules for hydropower generation derived with SVR- NSGAI”. Journal of Water Resources Planning and Management, 141 (11), DOI : 10.1061/(ASCE)WR.1943-5452.0000553, [Link](#)
 - 4- **Aboutalebi, M.**, Bozorg Haddad, O., and Loaiciga, H.A., (2015). “Application of the SVR-NSGAI to hydrograph routing in open channels”, Journal of Irrigation and Drainage Engineering, 142 (3), DOI : 10.1061/(ASCE)IR.1943-4774.0000969, [Link](#)
 - 5- **Aboutalebi, M.** and Bozorg-Haddad, O. (2015). “Support vector machine with non-dominated sorting genetic algorithm for the monthly inflow prediction in hydropower reservoir”, International Journal of Civil and Structural Engineering (IJCSE), 2(1), 239-242. [Link](#)
 - 6- **Aboutalebi, M.** and Garousi-Nejad, I., (2015). “Discussion of Application of the water cycle algorithm to the optimal operation of reservoir systems”. Journal of Irrigation and Drainage Engineering. DOI: 10.1061/(ASCE)IR.1943-4774.0000947. [Link](#)
 - 7- Garousi-Nejad, I., Bozorg Haddad, O., and **Aboutalebi, M.**, (2015). “Discussion of investigating parameters of two-point hedging policy for operating a storage reservoir”. ISH Journal of Hydraulic Engineering, 21(3), 312-314 DOI: 10.1080/09715010.2015.1021282. [Link](#)
 - 8- **Aboutalebi, M.**, and Bozorg Haddad, O., (2014). “Support Vector Machine with Non-dominated sorting genetic algorithm for the monthly inflow prediction in hydropower reservoir”. Proceedings of the Second International Conference on Advances in Civil, Structural and Environmental Engineering-ACSEE, *Zurich, Switzerland, 25-26, October.*
 - 9- Bozorg Haddad, O., **Aboutalebi, M.**, and Marino, M. A., (2014). “Discussion of Prediction of missing rainfall data using conventional and artificial neural network”. ISH Journal of Hydraulic Engineering, 19(2), 76-77. [Link](#)
 - 10- Bozorg Haddad, O., **Aboutalebi, M.**, and Garousi-Nejad, I., (2014). “Discussion of Hydro climatic stream flow prediction using least square-support vector”. ISH Journal of Hydraulic Engineering, 20(3)-274-275. [Link](#)
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In Press:

- 1- **Aboutalebi, M.,** Bozorg-Haddad, O., and Loaiciga, H.A. (2016). Closure to "Simulation of Methyl Tertiary Butyl Ether concentrations in river-reservoir systems using support vector regression", Journal of Irrigation and Drainage Engineering, In Press.
- 2- Bozorg-Haddad, O., **Aboutalebi, M.,** Ashofteh, P.-S., and Loaiciga, H.A. (2016). "Real-time reservoir operation with support vector machine", Journal of Hydroinformatics, In Press.
- 3- **Aboutalebi, M.,** (2016). Discussion of "Equation to Predict Riverine Transport of Suddenly Discharged Pollutants", Journal of Irrigation and Drainage Engineering, In Press.

In Preparation

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RELATIVE EXPERIENCES

- Microsoft Office/ MATLAB programming/ LINGO (Linear, Interactive, General Optimizer)/ GAMS (General Algebraic Modelling System)/ ArcGIS Pro (Geographical Information System)/ WEAP (Water Evaluation Planning and System)/Python /ERDAS Imagine/

Language Proficiency Tests

- **TOEFL iBT:** 89 [Reading:25 Listening:19 Speaking:22 Writing:23]
- **GRE:** [Verbal: 144 Quantitative:162 Writing:3.0]

REFERENCES

- **Omid Bozorg Haddad**
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