Mobin Eftekhari

Date of Birth: 21th August, 1994

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Major Interests

- Water pollution and GIS Modeling
  - Groundwater quality vulnerability
  - Environmental Engineering Analysis in GIS
- Artificial Intelligence
  - Optimization of Groundwater Quality Vulnerability Models with Artificial Intelligence
- Remote Sensing
  - Application of Remote Sensing in Water Engineering
  - Application of Remote Sensing in Drought Analysis
  - Application of Remote Sensing in Lake Management
  - Programming in Google Earth Engine

Education

M.Sc. in Civil engineering, water and hydraulic structures **22/09/2016 – 10/09/2018**	Islamic Azad University, Mashhad Branch Engineering Department **GPA: 15.88/20**
B.Sc. in Civil engineering. **23/09/2013 – 05/08/2015**	Sajad Industrial University of Mashhad Engineering Department **GPA: 14.64/20**
Associate Degree in general building works **23/09/2011 – 22/06/2013**	Technical College of Birjand Ebn Hesam Technical College **GPA: 15.64/20**
Diploma in Technical building **23/09/2009 – 21/06/2011**	Nemoneh Alborz High School, Birjand, Iran **GPA: 18.60/20**

Awards and Honors

- First Rank Among High School Students, 2009
- First Rank Among High School Students, 2010
- First Rank Among High School Students, 2011
- Member of Young Researchers and Elite Club , Islamic Azad University, Mashhad Branch , 2019
- Member of Iran's National Elites Foundation (INEF)- Military Service Alternative Project Award , 2019

Research Experience

M. Sc. Thesis	Evaluation of Birjand Aquifer Qualitative Vulnerability by Descriptive-Weighting Method

Supervisor: Dr. A. A. Ghezelsofloo
Advisor: Dr. H. Nameghi
https://opac.nlai.ir/opac-prod/bibliographic/7610952

Selected Graduate Term Course

- Embankment dams with Dr. A. Nokhodchi
- Advanced hydraulic with Dr.S. M. R. Alavi Moghadam
- Advanced Hydrology Engineering with Dr.F. Khamchin Moghadam
- Hydraulic design of structures with Dr. H. Nameghi
- Computational Hydraulics with Dr. S.M. R. Alavi Moghadam
- Evaluating Environmental Impacts of Development Projects with Dr. F. Khamchin Moghadam
- Analysis and Management of Water Resource Systems 1 with Dr. H. Nameghi
- River Engineering with Dr. A. A. Ghezelsofloo

Publications

Journal Papers

- Afshin Honarbakhsh ; Aliasghar Azma ; Fahime Nikseresht ; Milad Mousazadeh ; **Mobin Eftekhari** ; Yaser Ostovari. Hydro-chemical assessment and GIS-mapping of groundwater quality parameters in the Semi-arid regions. Journal of Water Supply: Research and Technology – AQUA .2019. https://doi.org/10.2166/aqua.2019.009

- **Mobin Eftekhari**, Mohamad Akbari, Ababs Ali Ghezelsofloo. Qualitative Vulnerability Assessment of Birjand Plain Aquifer Using SINTACS Method. Iranian Journal of Natural Environment .2019. 72(3). 279-294. (in Persian). https://jne.ut.ac.ir/article_72413.html?lang=en

- **Mobin Eftekhari**, Kavosh Madadi, Mohamad Akbari. Monitoring the fluctuations of the Birjand Plain aquifer using the GRACE satellite images and GIS spatial analysis. Watershed Management Research. 2019. (in Persian). https://wmrj.areeo.ac.ir/article_120369.html?lang=en

- **Mobin Eftekhari**, Saeid Mahmodizadeh, Ababs Ali Ghezelsofloo, Ali Esmaeily, Mohammad Akbari. Time and space analysis and monitoring of drought by using MODIS sensor products (Isfahan province case study). 2021. Geosciences Journal. (in Persian). http://geographic.sinaweb.net/article_683263.html

- **Mobin Eftekhari**, Mohammad Akbari. Cost Evaluation of Meta- Heuristic Design Models for Urban Water Distribution Network. 2020. Journal of Water and Wastewater Science and Engineering. (in Persian) http://www.jwwse.ir/article_118432.html?lang=en

- **Mobin Eftekhari**, Mohamad Akbari. Evaluation of the SINTACS-LU model capability in the analysis of aquifer vulnerability potential in semi-arid regions. 2020. Journal of Applied Research in Water and Wastewater. https://arww.razi.ac.ir/article_1409.html

- Behnam Tashayo, Afshin Honarbakhsh, Mohammad Akbari, **Mobin Eftekhari**. Land suitability assessment for maize farming using a GIS-AHP method for a

semi- arid region, Iran. 2020. Journal of the Saudi Society of Agricultural Sciences. https://doi.org/10.1016/j.jssas.2020.03.003

- **Mobin Eftekhari**, Mohamad Akbari, Saeid Gholinejad. Analysis of the Southern Caspian Sea Level Fluctuations from GRACE Gravimetric Satellite. Journal of the Persian Gulf (Marine Science). 2020 (2017). http://jpg.inio.ac.ir/article-1-575-en.html

- Mohamad Akbari, Homayoon Zahmatkesh, **Mobin Eftekhari**. A GIS-Based System for Real-Time air pollution monitoring and alerting based on OGC sensors web enablement standards. Pollution. 2021. https://jpoll.ut.ac.ir/article_79306.html

- **Mobin Eftekhari**, Mohamad Akbari. The DRASTIC Method Extension by Land Use to Analyze Pollution Potential of Aquifer in Semi-Arid regions. Journal of Environment and Water Engineering. 2020. (in Persian). https://www.jewe.ir/article_114320.html?lang=en

- Seyed Ahmad Eslaminezhad, **Mobin Eftekhari**, Mohammad Akbari. GIS-based flood risk zoning based on data-driven models. Journal of Hydraulic Structures (JHS). 2020. https://jhs.scu.ac.ir/article_16747.html

- Seyed Ahmad ESLAMINEZHAD, Davoud OMARZADEH, **Mobin EFTEKHARI**, Mohammad AKBARI. DEVELOPMENT OF A DATA-DRIVEN MODEL TO PREDICT LANDSLIDE SENSITIVE AREAS. Geographia Technica. 2021. http://dx.doi.org/10.21163/GT_2021.161.09

- Davoud Omarzadeh, Mehdi Afraz, Mohammad Akbari, **Mobin Eftekhari**, Zahra Noghani. Evaluation of changes in the forest environment in Guilan province using a combination of remote sensing data. Malaysian Forester. 2021. https://www.researchgate.net/profile/Davoud-Omarzadeh/publication/347835634_EVALUATION_OF_CHANGES_IN_THE_FOREST_ENVIRONMENT_IN_GUILLEN_PROVINCE_USING_A_COMBINATION_OF_REMOTE_SENSING_DATA/links/5fe46c4f299bf140883b9589/EVALUATION-OF-CHANGES-IN-THE-FOREST-ENVIRONMENT-IN-GUILLEN-PROVINCE-USING-A-COMBINATION-OF-REMOTE-SENSING-DATA.pdf

- Abbas Ali Ghezelsofloo, **Mobin Eftekhari**, Mohammad Akbari. Evaluation of River Self - Purification Behavior Using One - Dimensional Numerical Modeling. Iranian journal of Ecohydrology. 2021. (in Persian). https://ije.ut.ac.ir/article_80216.html?lang=en

- **Mobin Eftekhari**, Seyed Ahmad Eslaminezhad, Ali Haji Elyasi, Mohammad Akbari. Geostatistical Evaluation with Drinking Groundwater Quality Index (DGWQI) in Birjand plain aquifer. Journal of Environment and Water Engineering. 2021. (in Persian). http://www.jewe.ir/article_128636.html?lang=en

- **Mobin Eftekhari**, Seyed Ahmad Eslaminezhad, Ali Haji Elyasi, Mohammad Akbari. Development of DRASTIC model using artificial intelligence on the potential of aquifer contamination in semi-arid regions. Iranian journal of Ecohydrology. 2021. https://ije.ut.ac.ir/article_82049.html?lang=en . (in Persian).

- Mehdi Afraz, **Mobin Eftekhari**, Mohammad Akbari, Ali Haji Elyasi, Zahra Noghani. Application Assessment of GRACE and CHIRPS data in the Google Earth Engine to investigate their relation with groundwater resource changes (Northwestern region of Iran). Journal of Groundwater Science and Engineering. 2021. http://gwse.iheg.org.cn/en/article/doi/10.19637/j.cnki.2305-7068.2021.02.002

- Davoud Omarzadeh, Seyed Ahmad Eslaminezhad, **Mobin Eftekhari**, Mohammad Akbari. Landslide susceptibility assessment using an integrated approach of the analytic network process and fuzzy logic, a case of Urmia lake basin. Geographia Cassoviensis. 2021. https://doi.org/10.33542/GC2021-1-06

- **Mobin Eftekhari**, Seyed Ahmad Eslaminezhad, Mohammad Akbari, Yashar DadrasAjirlou, Ali Haji Elyasi. Assessment of the potential of groundwater quality indicators by geostatistical methods in semi-arid regions. Journal of Chinese Soil and Water Conservation. 2021. http://cswcs.org.tw/AllDataPos/JournalPos/VOL52/NO3/jcswc52(3)_04_158-16.pdf

- Seyed Ahmad Eslaminezhad, **Mobin Eftekhari**, Saeid Mahmoodizadeh, Mohamad Akbari, Ali Haji Elyasi. Evaluation of Tree-Based Artificial Intelligence Models to Predict Flood Risk using GIS. Iran-Water Resources Research. 2021. (in Persian). http://iwrr.sinaweb.net/article_135317.html?lang=en

- **Mobin Eftekhari,** Seyed Ahmad Eslaminezhad, Ali Haji Elyasi, Mohamad Akbari. Predicting Groundwater Potential Areas Using Hybrid Artificial Intelligence Methods (Case study: Birjand Plain). Iranian Journal of Soil and Water Research. 2021.(in Persian). https://ijswr.ut.ac.ir/article_85220.html?lang=en

- Seyed Ahmad Eslaminezhad, **Mobin Eftekhari**, Mohammad Akbari. Groundwater vulnerability zoning to nitrate based on DRASTIC-LU parameters and data-driven models. Journal of Beijing University of Technology. 2021. https://www.scopus.com/record/display.uri?eid=2-s2.0-85120482239&origin=inward&txGid=bca77284d83b2dbc2d074d13fa25a88c

- Seyed Ahmad Eslaminezhad, **Mobin Eftekhari**, Mohammad Akbari, Hadi Bayat, Wrya Barghi. Using Boosted Regression Tree, Logistic Model Tree, and Random Forest Algorithms to Evaluate the Groundwater Potential. Watershed Management Research. 2022. (in Persian). https://wmrj.areeo.ac.ir/article_125523.html?lang=en

- Seyed Ahmad Eslaminezhad, **Mobin Eftekhari**, Mohammad Akbari, Haji Elyasi, Hadi Farhadian. Predicting flood prone areas using advanced machine learning models (Birjand plain). Journal of Water and Irrigation Management. 2022. (in Persian). https://jwim.ut.ac.ir/article_85415.html?lang=en

- Seyed Ahmad Eslaminezhad, **Mobin Eftekhari**, Mohammad Akbari, Ali Haji Elyasi. Determination of groundwater potential using ensemble machine learning models in GIS (Case Study: Birjand plain). Iranian Journal of Irrigation & Drainage. 2022. (in Persian). http://idj.iaid.ir/article_144627.html?lang=en

- Abbas Ali Ghezelsofloo, Mahboobeh Hajibigloo, **Mobin Eftekhari**, Saeid Mahmoodizadeh, Mohammad Akbari, Seyed Ahmad Eslaminezhad. Simulation of runoff from Atrak River Basin Iran using SWAT model (A case study). Soil and Environment. 2022. http://www.se.org.pk/File-Download.aspx?publishedid=222697

- Seyed Ahmad Eslaminezhad, **Mobin Eftekhari**, Aliasghar Azma, Ramin Kiyanfar, Mohammad Akbari. Assessment of flood susceptibility prediction based on optimized tree-based machine learning models. Journal of Water and Climate Change. 2022. https://doi.org/10.2166/wcc.2022.435

- Peyman Karami, Seyed Ahmad Eslaminezhad, **Mobin Eftekhari**, Faraz Boroumand, Mohammad Akbari. Development of machine learning algorithms to predict urban air quality index (Study area: Tehran city). Journal of Geography and Environmental Hazards. 2022. (in Persian).

https://geoch.um.ac.ir/article_42367.html?lang=en

- **Mobin Eftekhari**; Seyed Ahmad Eslamnezhad; Abbas Ali Ghezelsofloo; Melika Rastgoo. Predicting the vulnerability of oil spill in the Persian Gulf using artificial intelligence methods in the GIS. Application of Geography information system and remote sensing in planning. 2022. (in Persian). https://gisrs.semnan.iau.ir/article_697765.html?lang=en

- Peyman Karami; seyed ahmad eslamnezhad; **Mobin Eftekhari**; Mohammad Akbari; Melika Rastgoo. Flood susceptibility zoning using machine learning improved by genetic algorithm. Journal of Natural Environment. 2022. (in Persian). https://jne.ut.ac.ir/article_90261.html?lang=en

Conference Papers

- **Eftekhari Mobin** , Ghezelsofloo Ababs Ali . Qualitative Vulnerability Assessment of Birjand Plain Aquifer Using SINTACS Method. The First National Conference of Iranian Geological Remote sensing Society (IGRSS). 2018. Iran. (in Persian). https://en.civilica.com/doc/867399/

- **Eftekhari Mobin** , Ghezelsofloo Ababs Ali . 1st National Conference on Modeling and New Technologies in Water Management. Evaluation of Birjand plain aquifer qualitative vulnerability by modified DRASTIC method using land use parameter. 2018. Iran. (in Persian). https://en.civilica.com/doc/1008030/

- Mahmodizadeh Saeid , **Eftekhari Mobin** , Esmaeily Ali . 1st National Conference on Modeling and New Technologies in Water Management. EVALUATION OF VHI INDICATORS ON TIME AND SPACE LOCATION OF DROUGHT (CASE STUDY: ISFAHAN PROVINCE). 2018. Iran. (in Persian). https://en.civilica.com/doc/1008025/

- Ein Afashar Ahmadreza, **Eftekhari Mobin**, Ghezelsofloo Ababs Ali, Salehnia Nasrin. Drought evaluation using SPI and DI profiles and zoning by IDW method (Case study of South Khorasan Province). 1st National Conference on Modeling and New Technologies in Water Management. 2018. Iran. (in Persian). https://en.civilica.com/doc/1008053/

- **Eftekhari Mobin** , Ghezelsofloo Ababs Ali . Analysis and evaluation of groundwater quality vulnerability methods. 4th.International Conference on Researches in Science & Engineering. 2019. Thailand. (in Persian). https://en.civilica.com/doc/936187/

- Mahmodizadeh Saeed, Madadi Kavosh, Esmaeily Ali, **Eftekhari Mobin**. Studying of spatio-temporal land surface temperature variations with respect to vegetation index (case study: Kerman city, Iran). 4th.International Conference on Researches in Science & Engineering. 2019. Thailand. https://en.civilica.com/doc/936324/

- **Eftekhari Mobin**, shabinigiv Amir, Mahmodizadeh Saeed, Madadi Kavosh. Analysis and Evaluation of Sedimentation on the Environment. 3rd international conference on applied research in science and engineering. 2018. Turkey. (in Persian). https://en.civilica.com/doc/863236/

- **Eftekhari Mobin**, Mahmodizadeh Saeed, shabinigiv Amir, Akbari Mohamad. Application of Web GIS and its implementation methods in science and engineering. Symposium of the National Symposium of Qalat Baladh Ferdows. 2019. Iran. (in Persian). https://en.civilica.com/doc/1015388/

- **Eftekhari Mobin** , Ghezelsofloo Ababs Ali , Akbari Mohamad . Application of numerical and mathematical models in groundwater. Symposium of the National

Symposium of Qanat Baladh Ferdows.2019.Iran. (in Persian). https://en.civilica.com/doc/1015406/

- Nowrouzi Ali , Akbari Mohamad , **Eftekhari Mobin** . The role of Qanat Baladeh Ferdows in the architecture and urbanization of Baghshahr Islamiyyah. Symposium of the National Symposium of Qanat Baladh Ferdows.2019.Iran. (in Persian). https://en.civilica.com/doc/1015412/

- **Eftekhari Mobin** , Akbari Mohamad . Evaluation of drought and wet conditions in Isfahan province with SPI and DI indices. 3rd Iranian National Conference on Hydrology. University of Tabriz. 2019. (in Persian). https://en.civilica.com/doc/950957/

- **Eftekhari Mobin**, Akbari Mohamad. Impact of dam construction on river. Second National Conference on Geography, Environment, Security and Tourism.2020.Iran. (in Persian)

- Mohammad Akbari, Ali Mousavi, Seyed Ahmad Eslaminezhad, **Mobin Eftekhari**, Mohsen Ghorani. A new semantic trajectory ontology model for modelling and reasoning on movement data. GISRUK 2021. 2021. Cardiff University. England. http://dx.doi.org/10.5281/zenodo.4665254

Books

- **Eftekhari Mobin**, shabinigiv Amir. An Attitude to Numerical Models of Groundwater. Publisher: Motakhasesan Ayandeh. ISBN: 978-622-6267-08-3. 2018. (in Persian). https://opac.nlai.ir/opac-prod/bibliographic/5543594

- **Eftekhari Mobin** , Akbari Mohamad . Principles of Groundwater Engineering. Publisher: Salehian. ISBN: 978-622-214-251-3. 2019. (in Persian). https://opac.nlai.ir/opac-prod/bibliographic/5683150

- **Eftekhari Mobin** , Akbari Mohamad . Application of remote sensing in water engineering. Publisher: Salehian. ISBN: 978-622-214-250-6. 2019. (in Persian). https://opac.nlai.ir/opac-prod/bibliographic/5944641

- **Eftekhari Mobin** , Parvaneh Moharamkhani . An introduction to the hydrology of karst areas. Publisher: Salehian. ISBN: 978-622-214-278-0. 2019. (in Persian). https://opac.nlai.ir/opac-prod/bibliographic/5700804

- Khaledi Borzoo , Akbari Mohamad , **Eftekhari Mobin**. Database management in Arc GIS. Publisher: Salehian. ISBN: 978-622-214-572-9. 2020. (in Persian). https://opac.nlai.ir/opac-prod/bibliographic/7276823

- Milad Basirifard, **Mobin Eftekhari**, Abbas Ali Ghezelsofloo, Seyed Ahmad Eslaminezhad. Application of QGIS in water resources and hydrology studies. Publisher: Salehian & Dry Environment Research Institute of Islamic Azad University, Mashhad Branch. ISBN: 978-622-214-710-5. 2021. (in Persian). https://opac.nlai.ir/opac-prod/bibliographic/7562271

Work Experience

Etude Technical Bureau , 2009

- Design of steel and concrete structures

Elekab engineering company (Noorab) , 2012

- Industrial Drawing

Department of Sabz Saze , 2017

Consulting Engineers Road,

- Teacher and Researcher of Civil Engineering Software

Water, Structures, Soil (RASEKH) (2020)	• Researcher of water resources engineering, GIS and remote sensing projects
Consultant and Senior Researcher in Dry Environment Research Institute (2021)	• Dry Environment Research Institute of Islamic Azad University
Research Reviewer	• Journal of Environment and Water Engineering (EWE) • Journal of Hydraulic Structures

Research Project

- Mohamad Akbari, Zahra Azarm, **Mobin Eftekhari**, Seyed Ahmad Eslaminezhad, Saeed Mahmodizadeh. Analysis and simulation of catchment subsidence due to the exploitation of groundwater resources. Regional Water Company of Tehran Province. 2022
- Mohamad Akbari, Zahra Azarm, **Mobin Eftekhari**, Seyed Ahmad Eslaminezhad, Saeed Mahmodizadeh .Investigating the phenomenon of subsidence at the level of the province's aquifers and predicting the possibility of subsidence before it occurs, considering the withdrawal of water resources and the necessity of providing preventive solutions. Regional Water Company of North Khorasan Province. 2022

Language and Computer Skills

Programming languages	• Java, MATLAB , Python
Software	• ArcGIS, ArcView, AutoCAD, Envi , Quantum GIS
Languages	• Persian (Native), English, Russian
Other	• MS Office

Google Scholar:

https://scholar.google.com/citations?user=CcVS9IkAAAAJ&hl=en