

C.V.

Ata Amini

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ADDRESS:

Associate Prof. Agricultural and Natural Resources Research and Education Center, AREEO, Sanandaj, Iran; P.O. Box: 714, Postal Code: 6616936311, Jam-e-Jam junction, Pasdaran Street, Sanandaj, Kurdistan, Iran.

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Name: Ata
Last Name: Amini
ID No: 3859664190 (National Code)
Date of birth: 1973 – 03 – 21.
Place of birth: Kurdistan, Iran
Sex: Male.
Marriage situate: Marriage (2 kids. 16 and 6 years)
Nationality: Iranian (Kurdish)

ACADEMIC TRAINING

1. **B. Sc.** Agriculture Engineering (Irrigation) on 1 June 1997, Technology University of Isfahan, Isfahan, Iran.
2. **M.Sc.** Civil Engineering at Water Engineering emphasis on Hydraulic and Hydrology on 05. 05. 2001, Tarbiat Modares University (TMU), Tehran, Iran.

Project: Sediment Hydraulic in Gravel-Bed Rivers

Thesis: Experimental and Field Study on Mining-Pit Migration at Rivers

3. **PH.D:** Water Resources Engineering, University Putra Malaysia (UPM), Kuala Lumpur, Malaysia on March, 2010.

Thesis: Physical Modeling of Local Scour at Complex Piers

RESEARCH INTERESTS

Hydrology, Integrated Water Resources Management, Hydraulics; Watershed Management, Sediment; Scour; Physical and Numerical Modeling; Climate Change and environment.

PUBLICATIONS

A. Journal Papers in English

1. Karami Moghadam M., **Amini A.** and Hosseini, Hasan (2019) Physical Modeling of Ski-Jump Spillway to Evaluate Dynamic Pressure, Canadian Journal of Civil Engineering, Under Review- final stage
2. Karami Moghadam M., **Amini A.** and Keshavarzi A. (2019) Intake design attributes and submerged vanes effects on sedimentation and shear stress, Water and Environmental journal, doi:10.1111/wej.12471
3. **Amini A.**, Gharibreza M., Shahmoradi B. and Zareie S. (2018) Land aptitude for horticultural crops and water requirement determination under unsustainability of water resources condition, Environ Monit Assess, Vol. 191(11), 1-13.
4. Kohzadi Sh, **Amini A.**, Shahmoradi B, Mohammadi Sh, Shivaraju H.P. (2018) Estimating the health effects of PM10 on the population of Sanandaj City during 2010–2014 using AirQ model. J Adv Environ Health Res; Vol. 6(2): 62-67
5. Shahmohammadi S, Noori A, Karami Sh, **Amini A.**, Shahmoradi B, Sobhan Ardakani S, et al. (2018) A study on corrosion and scaling potential of drinking water supply resources in rural areas of Sarvabad, West of Iran. J Adv Environ Health Res, Vol. 6(1): 53-61
6. Mohammadreza Gharibrezaa, Ali Nasrollahi, Amin Afshar, **Ata Amini**, Hossein Eisaei (2018) Evolutionary trend of the Gorgan Bay (southeastern Caspian Sea) during and post the last Caspian Sea level rise, Catena Vol. 166, pp:339–348
7. **Amini A.** and Solaimani N. (2017) The effects of uniform and nonuniform pile spacing variations on local scour at pile groups, Marine Georesources & Geotechnology, DOI: 10.1080/1064119X.2017.1392658
8. Hosseini R., Fazloulou R., Saneie M. and **Amini A.** (2018) Bagged Neural Network for Estimating Scour Depth around Pile Groups. International Journal of River Basin Management, DOI:10.1080/15715124.2017.1372449
9. Shafaei H., **Amini A.** and Shirdeli A. (2019) Physical Modeling of Submerged Vegetation Roughness under Clear Water Condition in Streambed, Water Resources

10. **Amini A.** and Hesami A. (2017) The role of land use change on the sustainability of groundwater resources in the eastern plains of Kurdistan, Iran. *Environmental Monitoring and Assessment*, 189 (6), 297
11. Khaledian H., Faghih H. and **Amini A.** (2017) Classifications of runoff and sediment data to improve the rating curve method, *Journal of Agricultural Engineering*, DOI: 10.4081/jae.2017.641
12. **Amini A.** and Thamer A. M. (2017) Local scour prediction around piers with complex geometry, *arine Georesources & Geotechnology*, doi.org/10.1080/1064119X.2016.1256923
13. **Amini Ata**, Asadi Parto A. (2016) Flow Field Simulation around Bridge Pile Groups using FLOW-3D, *Canadian Journal of Civil Engineering*, Under Review.
14. **Amini Ata**, Arya Alborz, Eghbalzadeh Afshin and Mitra Javan (2017) Peak flood estimation under overtopping and piping conditions at Vahdat Dam, Kurdistan Iran, *Arabian Journal of Geoscience*, DOI: 10.1007/s12517-017-2854-y
15. Solaimani N., **Amini A.**, Banejad H. and Ghazvinei P. T. (2017) The effect of pile spacing and arrangement on bed formation and scour hole dimensions in pile groups, *International Journal of River Basin Management*, 15:2, 219-225, DOI: 10.1080/15715124.2016.1274321
16. Amini Ata, Homayounfar V. (2016) The groundwater balance in alluvial plain aquifer at Dehgolan, Kurdistan, Iran. *Applied Water Science*, Springer. DOI 10.1007/s13201-016-0445-9
17. Hesami A., **Ata Amini** (2016) Changes in irrigated land and agricultural water use in the Lake Urmia Basin, *Lake and Reservoir Management*. doi.org/10.1080/10402381.2016.1211202
18. Eghbalzadeh A., Javan M., Hayati M. and **Ata. Amini** (2015) Discharge prediction of circular and rectangular side orifices using artificial neural networks, *KSCE Journal of Civil Engineering*, Springer, pp:1-7, IF=0.48, DOI: 10.1007/s12205-015-0440-y
19. Taherei Pezhman, Ariffin, J., Thamer A. M., Amini, A., Aghajani M., Saheri, S., and Ansarimoghaddam, S. (2015) Contraction Scour Analysis at Protruding Bridge Abutments. *ICE-Bridge Engineering*. DOI.org/10.1680/bren.14.00011.
20. Jannaty, M. H., **Amini Ata**, Eghbalzadeh A., Hosseini A. (2015) Assessment of Scouring Methods with The Effect of Debris Using Field Data. *Veliger International Journal*, Vol. 54 (1), pp:1-7.

21. Rashed Hosseini, **Ata Amini** (2015) Scour Depth Estimation Methods around Pile Groups, KSCE, Journal of Civil Engineering, Vol.19(7), pp 2144–2156. DOI: 10.1007/s12205-015-0594-7
22. Dehghani P, Shahmoradi B, **Amini Ata**, Sabeti M.S. (2014) Determining suitable model for zoning drinking water distribution network based on corrosion potential in Sanandaj City, Iran. Journal of Advance in Environmental Health Research; Vol 2(2): 72-80.
23. **Ata Amini**, Pezhman Taheri, Mitra Javan and Bahram Saghafian, (2014). Evaluating the Impacts of Watershed Management on Runoff Storage and Peak Flow in Gav-Darreh Watershed, Kurdistan, Iran. Arabian Journal of Geosciences. August 2014, Volume 7(8), pp 3271-3279. DOI: 10.1007/s12517-013-0950-1
24. **Ata Amini**, Bruce W. Melville, Thamer M. Ali. (2014). Local Scour at Piled Bridge Piers Including an Examination of Superposition Method. Canadian Journal of Civil Engineering, 41(5): 461-471, 10.1139/cjce-2011-0389
25. **Ata Amini**, Thamer Mohd, Local scour prediction in complex pier (2016). Marine Georesources & Geotechnology, doi: 10.1080/1064119X.2016.1256923
26. Ata Amini, Bruce W. Melville, Thamer M. Ali, and Abdul H. Ghazali. (2013), Closure to “Clear-Water Local Scour around Pile Groups in Shallow-Water Flow” Journal of Hydraulic Engineering (**ASCE**), 2013.139, pp: 679-680.
27. Ghazvinei, T. P., Hassanpour Darvishi H., Ariffin J., Musavi-Jahromi S. H., Aghamohammadi N. and **Amini A.** (2017) MTP Validation Analysis of Scour Formulae in an Integral Abutment Bridge. Water Engineering, KSCE Journal of Civil Engineering, Volume 21, Issue 3, pp 1009–1021
28. **Ata Amini**, Bruce Melville, Thamer Mohd, Halim Ghazali, (2012). Clearwater Local Scour around Pile Groups-Shallow Water, Journal of Hydraulic Engineering (**ASCE**), Vol. 138 (2), pp 177-185.
29. **Ata Amini**, Thamer Mohd, Halim Ghazali, Bujang Huat, Azlan Aziz.(2010) A local scour prediction method for pile cap in complex piers. ICE-water management, Vol. 164(2): 73-80
30. **Ata Amini**, Thamer Mohd, Halim Ghazali, Bujang Huat, Azlan Aziz, Shatirah Akib. (2011), Impacts of Land Use Change on Streamflow Generation in

Damansara Watershed, Malaysia. *Arabian Journal of Science and Engineering*. 36(5), 713-720, DOI 10.1007/s13369-011-0075-3,

31. **Ata Amini**, Thamer Mohd, Halim Ghazali, Bujang Huat. (2009) Adjustment of Peak Streamflows of a Tropical River for Urbanization. *American Journal of Environmental Sciences*, 5(3):285-294.
32. Ali Akbar Salehi, Ali Farhadzadeh, **Ata Amini** (2001). Experimental and field study on mining–pit migration. *International Journal of Sediment Research*, vol. 17, No.4, 2002, PP. 323 – 331

B. Samples of Journal Papers in Persian

33. **Ata Amini** et al. "Studying interactions between flow fields around a submerged bridge deck, channel bed and free surface" (2013). *Iranian Water Research Journal*. Vol. 10, pp: 67-64 [In Persian].
34. Gollaleh Ghafari and **Ata Amini** (2009) "Flood plain management using Geographic Information System (GIS) (Case Study: Ghezel-Owzan River)" *Journal of Geographic Space*, Vol. 32, pp: 117-134 [In Persian].
35. **Ata Amini** and Eghbalzadeh Afshin (2012) "Effect of Pile Arrangement on Local Scour Depth at Pile Groups" *Iran Water Research Journal*. Vol. 11 pp 95-103 [In Persian].
36. **Ata Amini** and Rangin Heydari. (2014). "Effect of the climate on water requirements determination of orchards in Kurdistan, Iran" *Modern Science of Sustainable Agriculture Journal*, Vol. 10 (1), 1-12 [In Persian].
37. **Ata Amini** and Mohammad Roghani. (2012). "The Effects of Check Dams on Runoff Storage in Gav-Darreh watershed, Kurdistan, Iran" *Journal of Geographic Space*, Vol. 13 (37), 133-151 [In Persian].
38. **Ata Amini**, Ragin Heidari, Majid Hosseini and Nader Jalali (2016) The Role of Water Resources in Land Use of the Tavlar Basin in Kurdistan Province, *Watershed Engineering and Water Resources*, Vol. 8 No. 3. [In Persian].
39. **Ata Amini**, Mitra Jawan, Afshin Eghbalzadeh and Mohammad Rahim Ghasemi (2015) Assessment of water resources management in Gamasyab basin of Kermanshah province using WEAP model. *Water Resources Engineering*, Vol. 10 (32) 13-20 [In Persian].

40. Faghieh H., **Amini A.**, Heidari F. and Khalili K (2015) An Investigation of the Efficiency of Artificial Neural Network in Estimating Suspended Sediment load in River Flow using Categorized Data, *Environmental and Water Engineering*, Vol. 1, No. 1, Pages: 64-51 [In Persian].
41. **Ata Amini** (2016) Evaluation of inter basin water transfer plans based on the potential of development of donor basin in the Sirvan basin, Kurdistan, Iran. *Engineering and Management of Watershed*, Vol. 9 No. 2. [In Persian].
42. Daiman Ghafari, Mahnaz Karami and **Ata Amini** (2017) Assessment of the effects of climate change on rainfall and temperature using HadCM3 and ECHAM4 models in GorganRoud –Gharasu watershed, *Environment and Water Engineering*, Vol. 2 No 2, p. 148- 136 [In Persian].

More Than 5 other Papers in Persian

C. International Conference Presentation

1. Shatirah Akib ,Faridah Othman, Ismail Othman, **Ata Amini**, Mohammad Marzuki, Local Scour at Integral Bridges with Single and Double Row Piles in a Two-Stage Channel. 32nd Hydrology and Water Resources Symposium 9 October 2009, Newcastle, Australia
2. Shatirah Akib, Ismail Othman, Faridah Othman, **Ata Amini** and Mohammad Marzuki, Multiple Span Integral Bridge Scour Phenomenon, EWRI International Conference, Jan 5-7, 2010- Chennai, India .
3. Shatirah Akib, Ismail Othman, Faridah Othman, **Ata Amini** and Mohammad Marzuki. Semi-Integral Bridge Scour Prevention by using *Epipremnum aureum*. 3rd Hydrology and Water Resources Symposium 9 October 2009 Newcastle, Australia.
4. **Ata Amini**, The Impacts of Integrated Water Resources Management on Dust Storms in Tigris-Euphrates Basin. First International Forum on Natural Airborne in Iran, Kermanshah, Iran. 23-25 May 2012.

5. **Ata Amini** (2013) "Drought Analysis and water managements in Euphrates-Tigris Basin" The Second International Conference on Agriculture and Natural Resources, Iran, Kermanshah, 25-26 Dec 2013 (4-5 Jan 2013)
6. M. Jannaty, **Ata Amini**, Afshin Eghbalzadeh and Abbas Hosseini (2014). Comparison of sensitivity analysis for scour parameters relation. 1st International conference on urban development based on new technology, Sanandaj Iran, 13 March 2014.
7. Jannaty M., Bahram Lahourpour, **Ata Amini**, and Abbas Hosseini (2014). "Investigation on energy loss in vertical drop with upstream contraction transition". 1st International conference on urban development based on new technology, Sanandaj, Iran . 13 March 2014.
8. Ghasemi M. R., **Ata Amini**, Afshin Eghbalzadeh, Mitra Javan, (2014) "The management modeling using WEAP model for Sirvan basin"1st International conference on urban development based on new technology , Sanandaj, Iran . 13 March 2014.
9. Alborz Ariya, **Ata Amini**, Afshin Eghbalzadeh, Mitra Javan (2014) "Investigation of Vahdat Dam effects on Gheshlagh River Discharge in Sanadaj" , Iran, 1st International conference on urban development based on new technology , Sanandaj, Iran . 13 March 2014.
10. Ata Amini (2018) The strategies for supplying drinking water in Sanandaj, Kurdistan, Iran. International Water Association, Embrace the Water Conferences. Gothenburg, Sweden.

D. National Conference Presentation:

1. **Ata Amini**, Ali Akbar Salehi (2001) "Field study the mining pit-migration in river" International Conference on Hydraulic Structure. Kerman, 1&2 may 2001, Iran
2. **Ata Amini**, Ali Akbar Salehi (2001) "Experimental study on the effect of length and depth of mining-pit migration". *Iranian National Committee on Irrigation and Drainage (IRNCID)*, July 2001, Iran
3. **Ata Amini**, Rangin Haydari (2013). "Drought Evaluation in Iranian Part of the Euphrates- Tigris Basin" 2^{ed} *National Conference on Climate Change and Impact on Agriculture and the Environment*, Urmieh, Iran.

Apart from the International conference, **more than 30 papers** in National conferences have been presented and I have been participated.

E. BOOKS

1. **Ata Amini** (2010) Fluid Mechanics, Theory and Solved Problems. (Sashosa publication (First Edition), 380p. Fluid Mechanics, Theory and Solved Problems. (2010). Sashosa publication (First Edition)
2. **Ata Amini** (2012) Fluid Mechanics, Theory and Solved Problems. Collage publication (2ed edition and major revision) 480 p. [In Persian].
3. **Amini A.**, Taheri P., Motamedi S. and Roslan B. Hashim (2016) Physical Modeling of Local Scour at Complex Pier, *International Islamic University Malaysia*, IIUM press, Kuala Lumpur, Malaysia.
4. Pezhman Taheri Ghazvini, **Amini A.**, Roslan Hashim, Shervin Motamedi (2017) Physical Modeling of Scouring at Abutment Bridge, *International Islamic University Malaysia*, IIUM PRESS, Kuala Lumpur, Malaysia.
5. **Amini A.** (2018) Sedimentation Engineering, InTech Publication, DOI: 10.5772/intechopen.68509. 150 pp. Croatia.
6. **Amini Ata** (2018) Climate Change and Global Warming, InTech Publication, 200pp, Croatia (Under Press)

F. Book Chapters

7. **Amini A.**, Zareie S., Taheri P., Yusof K. WM and Mustafa M. R. (2016). Drought Analysis and Water Resources Management Inspection in Euphrates–Tigris Basin, River Basin Management, Prof. Daniel Bucur (Ed.), InTech, DOI: 10.5772/63148.
8. **Amini A.** (2018). Introductory Chapter: Sustainable Development and Sediment Engineering, Sedimentation Engineering, IntechOpen, DOI: 10.5772/intechopen.74683.
9. **Amini A.** (2019). Introductory Chapter: Lake Urmia - A Witness to the Simultaneous Effects of Human Activities, Climate Change, and Global Warming, IntechOpen, DOI: 10.5772/intechopen.83605.

G. Samples of Teaching

No	Semester		Academic Year	Courses	Credit	Institution
	First	Second				
1		*	1999-2000	– Water conveyance structures Hydrology	3 + (2+2+2)	Islamic Azad University
2		Summer term	98-99	– Water conveyance structures Hydrology	3 + (2+2)	Islamic Azad University
3	*		1999-2000	– Water conveyance structures principles of dam engineering	3 + 2	Islamic Azad University
4	*		2001-2002	Ground water	3	Islamic Azad University
5		*	2009-2010	Hydraulic Lab	1+1+1+1	Islamic Azad University
6		*	2009-2010	Fluid mechanics	3+3	Islamic Azad University
7	*		2010-2011	Fluid mechanics	3+3	Islamic Azad University
8		*	2010-2011	Fluid mechanics	3+3	Islamic Azad University
9	*		2010-2011	Fluid mechanics	3	Kurdistan University
10		*	2010-2011	Fluid mechanics	3	Kurdistan University
11	*		2011-2012	Fluid mechanics	3+3	Islamic Azad University
12		*	2011-2012	River Engineering	2	Kurdistan University
13	*		2011-2012	Hydraulic	2	Kurdistan University
14	*		2011-2012	Hydraulic Lab	1+1+1+1	Kurdistan University
15	*		2011-2012	Fluid mechanics	3	Islamic Azad University
16	*		2011-2012	Fluid mechanics	3	Islamic Azad University
17		Summer	2011-2012	Hydrology	2	Islamic Azad University
18	*		2012-2013	Fluid mechanics	3+3	Islamic Azad University
19		*	2012-2013	Fluid mechanics	3+3	Islamic Azad University
20		Summer	2012-2013	Fluid mechanics	3	Islamic Azad University
21	*		2013-2014	Fluid mechanics	3+3	Islamic Azad University
22		*	2013-2014	Fluid mechanics	3+3	Islamic Azad University
23		Summer	2013-2014	Fluid mechanics	(3+3)+2	Islamic Azad University
24	*		2013-2014	Fluid mechanics, Hydraulic	(3+3)+2	Islamic Azad University
25		*	2018-2019	Drought and Flood Control	3	University of kurdistan

H. Samples of Projects & Professional Activities

No.	Project Title	Date		Position in Project
		Start	End	
1	Flood Hazard Zonation Using GIS (Case Study: Ghezel-Ozan River)	2006	2007	Project Co-Leader
2	Assessing the Effect of Check Dams on Runoff Storage in the Haydari Watershed, Iran	28 . 1. 2011	29. 8. 2012	Project Director
3	Assessing the Effect of Check Dams on Runoff Storage in Gav-Darreh Watershed, Iran	28.4.2010	30.7.2011	Project Director
4	Assessing the Effect of watershed managements on flood reduction in Gav-Darreh Watershed, Iran	28.4.2010	28.4.2012	Project Director
5	Evaluating the Impacts of Watershed Management on Quality and Quantity of Groundwater	28.4.2010	28.4.2012	Project Director
6	Study on Stability of Mechanical Structures in Watersheds	28.4.2010	28.4.2012	Project Co-Leader
7	Determine the Net Irrigation Requirements of Horticultural Crops in Different Climates of Kurdistan, Iran	21.5.2012	21.12.2013	Project Director
8	Integrated Model of Surface Water in Kurdistan, Iran	21.5.2012	19.4.2014	Project Director
9	Impacts of Water Resources Managements in West of Iran on Origins of Dust Storms	21.5.2013	21.3.2014	Project Director
10	Investigation of resources and consumption balances of surface waters of Kurdistan province, Iran	2014	2015	Project Director
11	The effect of water management on the formation of dust phenomenon in West Iran	2014	2016	Project Director
12	Investigation of virtual water in major crop products in the Tavlar Basin, Kurdistan, Iran	2016	2018	Project Director

13	Investigation of Changes in Climate Parameters Regarding the Dust in Kurdistan Province, Iran	2017	2018	Project Director
14	Currently 5 Other projects are in progress	2017	2019	Project Director

I. EXPERIENCES

1. Editor, Executive Manager and secretary expertise Journal, *Journal of Environment and Water Engineering*, WWW.JEWE.IR from 2013.
2. Associate Prof., Agricultural and Natural Resources Research Center of Kurdistan, Iran, since Jan 2010 up to now.
3. Research assistant fellow in university Putra Malaysia during the PhD research (2006-2009).
4. Research leader in Hydraulic Laboratory of National Hydraulic Research Institute of Malaysia (NAHRIM) from 1.02.2008 to 1.03.2009
5. Teaching water engineering softwares (HEC-RAS and HEC-HMS) in National Hydraulic Research Institute in Malaysia (NAHRIM), and University Putra Malaysia.
6. Lecturer at the Engineering Faculty of Islamic Azad University, Sanandaj Branch, since 2002.
7. Working with Organization of Agricultural Crusade in Kurdistan Province, Iran. In the field of supervising projects of water conveyance and supply as well as other construction project since 29-04-1999 (Eight years).
8. Working with organization of Engineering Agriculture and Natural Resources in Kurdistan province as the secretary since 03-12-2002 up to 01.01.2007

J. STUDENT AND THESIS

1. *Local Scour at pile group using Neural Network*: RASHED HOSSEINI (Co-supervisor) - Master Thesis
2. *Numerical investigation of scour around bridge pier*: AKRAM ASADI-PARTO (Co-supervisor) - Master Thesis
3. *Hydrological modeling of dam break using HEC-RAS and GIS*: ALBORZ ARYIA (Co-supervisor) - Master Thesis

4. *Integrated Model of Surface Water Management in Sirvan Basin, Kurdistan, Iran:* MOHAMAD-RAHIM GHASEMI (Co-supervisor) - Master Thesis

5. *Evaluate Scour Prediction at complex pier using field study and laboratory data;* HIMN JANATI (supervisor) – PhD Thesis

6. *Study on Local Scour at Complex Bridge Piers using Neural Network:* SHAHRIAR HAMIDI (supervisor) - Master Thesis

7. *The Sanandaj Water quality evaluation using GIS,* PARVIN DEGHAN- (Co-supervisor) - Master Thesis

K. JOURNAL REFEREE

1. Institute of Civil Engineering- Water Managements
2. Science Journal of Environmental Engineering Research
3. Acta Geophysics
4. International Journal of River Basin Management
5.

L. TRAINING COURSE

I have successfully completed 20 training courses or workshop on water and civil engineering as well as paper publishing and research methodology.

M. RESEARCH AWARDS AND PRIZES

Top researcher in Agricultural and Natural Resources Research Center, 2013, awarded by University of Kurdistan and Kurdistan governance, Iran

N. SKILLS

- Excellent in Hydraulic, Hydrology, Water Resources, Mathematics, Statistics, Physical (Laboratory) models, Numerical Models and Field Researches.
- Software Ability: Microsoft office, HEC-RAS, HEC-HMS, SPSS, and familiar with Mike Pack and GIS (ArcGIS).
- Very hard work and serious in research and executive work individually and in a team.

O. HONORS

- Recipient, Outstanding researchers in Kurdistan, AREEO, at 2015, 2016, 2017 and 2018.