

CURRICULUM VITAE



PERSONAL DETAILS

Name Taymoor Abdul-Majeed Awchi
 Date of Birth 17.12.1963
 Birth Place Mosul, IRAQ
 Marital Status Married, 3 children.
 Mobile 009647736977098
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QUALIFICATION

| Degree | Year | Institute |
|--------------------------|------|---|
| B.Sc. | 1985 | Irrigation and Drainage Engineering, Irrigation and Drainage Department, College of Engineering, University of Mosul, Mosul, IRAQ |
| M.Sc. | 1991 | Irrigation and Drainage Engineering, Irrigation and Drainage Department, College of Engineering, University of Mosul, Mosul, IRAQ |
| Ph.D. | 2004 | Water Resources Engineering, Hydrology Department, Indian Institute of Technology, Roorkee, INDIA |
| Post-Doctoral Fellowship | 2008 | Endeavour-2008 Award, University of New South Wales – Australia |

THESIS

| | |
|-------|---|
| M.Sc. | Dual scheduling of linear-move irrigation systems in Al-Jazeera project |
| Ph.D. | Optimal planning and operation of a reservoir |

WORK EXPERIENCE

| From | To | Position | Type of work |
|-----------|-----------|---|--|
| Nov. 1985 | Oct. 1988 | Executive Engineer, Al-Yaum Al-Adheem Construction Company, IRAQ | constructions (civil and hydrological engineering) |
| June 1991 | May 1992 | Assistant Consultant, Al-Furat Centre for Irrigation Project Studies and Designs, Baghdad, IRAQ | Groundwater recharging project |

SCIENTIFIC STATUS

| From | To | Position |
|-----------|-----------|--|
| Dec. 1992 | May 1993 | Assistant Lecturer, Saddam Research Centre for Dams and Water Resources, University of Mosul, IRAQ |
| May 1993 | May 1998 | Assistant Lecturer, Irrigation and Drainage department, College of Engineering, University of Mosul, IRAQ |
| May 1998 | Sep. 2000 | Lecturer, Irrigation and Drainage department, College of Engineering, University of Mosul, IRAQ |
| Sep. 2000 | Sep. 2004 | Ph.D. Research Scholar, Indian Institute of Technology-Roorkee, INDIA |
| Oct. 2004 | June 2008 | Lecturer, Water Resources Dept., College of Engineering, Univ. of Mosul |
| June 2008 | Dec. 2008 | Post doctorate research work Visitor Fellow – School of Civil and Environmental Engineering, UNSW, Sydney, Australia |
| Dec. 2008 | Dec 2009 | Lecturer, Water Resources Department, College of Engineering, University of Mosul |
| Dec 2009 | June 2018 | Assistant Professor, Dams and Water Resources Department, College of |

| | | |
|-----------|-----|---|
| | | Engineering, University of Mosul |
| June 2018 | now | Assistant Professor, Civil Engineering Department, College of Engineering, University of Kirkuk |

COURSES ATTENDED

| Period | Course |
|------------------------|---|
| 31 July to 11 Aug 1993 | Administrative of University, Teaching Methods, University of Mosul |
| 7-11 Jan. 1996 | Training course "Photo interpretation and remote sensing", Remote Sensing Centre, University of Mosul |
| 5-25 Oct. 2007 | Training course "Irrigation Development and Water Management", organized by Korea Rural Community (KRC) and Korea International Cooperation Agency (KOICA), Seoul, South Korea. |

CONFERENCES

1. Third Conference of the Research Centre for Dams and Water Resources, Nov. 22-24, 1994, University of Mosul, IRAQ.
2. Fourth Conference of the Research Centre for Dams and Water Resources, April, 8-10, 1997, University of Mosul, IRAQ.
3. International Conference on Water and Environment, WE-2003, Dec 15-18, 2003, Bhopal, INDIA.
4. Fourth International Scientific Conference on environment and sustainable development, November 24-28, Cairo, Egypt.

SCHOLARSHIPS

| | Sponsor Organization | From | To | Institute | Aim |
|---|---|-----------|-----------|--|------------------------------|
| 1 | Indian Council for Cultural Relations ICCR | Sep. 2000 | Sep. 2004 | Indian Institute of Technology-Roorkee | Ph.D. |
| 2 | Australian Endeavour Programme, Austraining International Pty Ltd | June 2008 | Dec. 2008 | School of Civil and Environmental Engineering, UNSW, Australia | Post doctorate research work |

PAPERS

1. Rasheed, H. R., Mohammad, M. E., and Awchi, T. A. (1994). "A field study on influence of soil initial moisture content on infiltration function", *Journal of Al-Rafidain Engineering*, 1(3), University of Mosul.
2. Rasheed, H. R., Awchi, T. A., and Mohammad, M. E. (1996). "A time series weekly rainfall generation model to be used for scheduling irrigation in northern Iraq", *Journal of Iraqi Water Resources*, 15 (1-2).
3. Rasheed, H., and Awchi, T. A. (1997). "Linear-move irrigation system scheduling in northern Iraq", *Journal of Al-Rafidain Engineering*, 5(1), University of Mosul.
4. Awchi, T. A. (1998). "Prediction of pan evaporation values using climatic parameters data in northern Iraq", *Journal of Al-Rafidain Engineering*, 6(1), University of Mosul.
5. Awchi, T. A., and Srivastava, D. K. (2003). "Artificial neural network model application in stochastic generation of monthly streamflows for Mula project", In: Singh, V. P. and Yadava, R. N. (Ed), *Water resources system operation, Proceedings of the International Conference on Water and Environment (WE-2003)*, Bhopal, India.

6. Awchi, T. A. (2007). "Application of Radial Basis Function Neural Networks for Reference Evapotranspiration Prediction", *Journal of Al-Rafidain Engineering*, 16(1), University of Mosul.
7. Awchi, T. A., and Srivastava, D. K. (2009). "Analysis of drought and storage for Mula project using ANN and stochastic generation models", *Hydrology Research Journal (formerly Nordic Hydrology)*, 40(1).
8. Srivastava, D. K., and Awchi, T. A. (2009). "Storage-Yield Evaluation and Operation of Mula Reservoir, India", *Water Resources Planning and Management Journal*, ASCE, 135(6).
9. Gazal, A., Awchi, T., and Hassan, I. (2010). "Future horizons for optimal operation of Mosul dam reservoir" *Journal of Tikrit Engineering Sciences*, 17(4), 16-30.
10. Awchi, T., and Hassan, I. (2013). "Estimation of reference evapotranspiration by predicting temperature values using a stochastic model" *Journal of Al-Rafidain Engineering*, Vol. 21, No. 3, Mosul, Iraq.
11. Awchi, T., and Hassan, I. (2014). "Low flow modeling for Greater Zab and Lesser Zab rivers in Northern Iraq" *Al-Rafidain Engineering Journal*, Vol. 22, No.3, University of Mosul, Iraq.
12. Awchi, T. (2014). "River discharges forecasting in Northern Iraq using different ANN techniques" *Journal of Water Resources Management*, Springer, Vol. 28, No. 3, pp. 801-814, The Netherlands.
13. Kalyana, M. and Awchi, T. (2015). "Investigating the Meteorological Drought in Northern Iraq Using Deciles Method" *Al-Rafidain Engineering Journal*, 23(3):12-21. University of Mosul, Iraq.
14. Jebbo, B. and Awchi, T. (2016). "Simulation Model for Mosul Dam Reservoir Using HEC-ResSim 3.0 Package" *Zanco Journal of Pure and Applied Sciences*, 28(2):92-98. University of Salahaddin, Iraq.
15. Awchi, T. A., and Kalyana, M. M. (2017). Meteorological drought analysis in northern Iraq using SPI and GIS. *Sustainable Water Resources Management*, 1-13, Springer, doi:10.1007/s40899-017-0111-x.
16. Awchi, T. A., and Jasim, A. I. (2017). Rainfall Data Analysis and Study of Meteorological Draught in Iraq for the Period 1970-2010. *Tikrit Journal of Engineering Sciences*, 24 (1): 110-121. ISSN: 1813-162X.
17. Jebbo, B. and Awchi, T. (2018) Simulation of Mosul Dam Reservoir Operation for Irrigation and Hydropower Generation. Fourth International Scientific Conference on environment and sustainable development, November 24-28, Cairo, Egypt.
18. Ali H. Ahmed Suliman, W. Gumindoga, Taymoor A. Awchi & Ayob Katimon (2019): DEM resolution influences on peak flow prediction: a comparison of two different based DEMs through various rescaling techniques, *Geocarto International*, DOI: 10.1080/10106049.2019.1622599
19. Jebbo, B. and Awchi, T. (2019) Simulation of Mosul Dam Reservoir Operation for Irrigation and Hydropower Generation. *Engineering and Technology Journal*, Vol. 37, Part C, No. 1.
20. Jasim A. I. and Awchi T. (2020) Regional meteorological drought assessment in Iraq. *Arabian Journal of Geosciences*, 13:284, Springer, <https://doi.org/10.1007/s12517-020-5234-y>.
- 21- Suliman, A. H. A., Awchi, T. A., Al-Mola, M., & Shahid, S. (2020). Evaluation of remotely sensed precipitation sources for drought assessment in Semi-Arid Iraq. *Atmospheric Research*, 105007. <https://doi.org/10.1016/j.atmosres.2020.105007>

THESIS SUPERVED

- 1- *The Futurism horizons for the optimal operation of Mosul Dam* (2008), M.Sc. Thesis submitted to the Water Resources Engineering Department, College of Engineering, University of Mosul.
- 2- *Drought analysis and modelling in northern Iraq*. (2013), M.Sc. Thesis, Dams & Water Resources Engineering Department, College of Engineering, University of Mosul.
- 3- *Assessing Regional Meteorological Drought Characteristics in Iraq*. M.Sc. research work (ongoing), Dams & Water Resources Engineering Department, College of Engineering, University of Mosul.
- 4- *Simulation model for a storage system in northern Iraq using HEC-ResSim 3.0 package* (2015). M.Sc. research work, Dams & Water Resources Engineering Department, College of Engineering, University of Mosul.

LANGUAGES MASTERED

1. English
2. Arabic
3. Turkish

COURSES ATTENDED DURING Ph.D. STUDY

1. Surface water system analysis
2. Water resources planning and management
3. Water resources economics
4. Stochastic hydrology
5. Remote sensing and GIS application
6. Programming with C++ language

TEACHING EXPERIENCE

Undergraduate studies:

- Principles of computers and programming, Mathematics, Engineering drawing, Statistics, Principles of Irrigation, Engineering of Dams, Hydrology, Water resources economics and management.

Postgraduate studies:

- Groundwater Hydrology
- Pumps and Wells.
- Water Resources systems Management

REFEREES

- 1- Prof. Dr. Ashish Sharma, School of Civil and Environmental Engineering, University of New South Wales, Australia. a.sharma@unsw.edu.au.
- 2- Prof. Dr. D. K. Srivastava, Hydrology department, Indian Institute of Technology-Roorkee, India. dksfhy@rediffmail.com.
- 3- Prof. Dr. Ahmed Y. Hachum, Dams & Water Resources Engineering Department, College of Engineering, University of Mosul, Iraq. ahmed_hachum@yahoo.com
- 4- Prof. Dr. Kamel A. Almohseen, Dams & Water Resources Engineering Department, College of Engineering, University of Mosul, Iraq. almohseen2000@yahoo.com