

MOHAMMED MAGDY Hamed Hussein Abdallah, M.Sc.

PhD student | Arab Academy for Science, Technology and Maritime Transport

Date of Birth: 07/11/1993 (29 year) – Married – Egyptian

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EDUCATION

2020

M.Sc. in Construction and Building Engineering

Arab Academy for Science and Technology (AAST) - Cairo, Egypt

Thesis title "Water Distribution Network Simulation Using Different Pressure Driven Analysis Methods", GPA 3.83/4

2016

B.Sc. in Construction and Building Engineering

Arab Academy for Science and Technology (AAST) - Cairo, Egypt

Project title "Protection of Ain Sokna -Zafrana Road from Flood Hazard", GPA 3.94/4

PROFESSIONAL SUMMARY

Six years of experience in the construction industry and academic field.

Excellent academic records in teaching civil and construction engineering courses. Outstanding experience of assisting professors and mentoring students. A sound experience of teaching online courses as well as creating online exams. Demonstrated research experience backed with dissertation. Skilled in teaching students with practical examples. Qualified to be an effective member in any team work in the construction field or to work independently.

TEACHING COURSES

Hydraulics for civil engineer

Water Recourses

Irrigation and Drainage

Surveying

Building Information Modelling

Theory of Structure

Contracts and Law

Construction Engineering Drawing

Design and Construction of Coastal Structures

WORK HISTORY

09/2016 to Present **Lecturer Assistant**

Arab Academy for Science and Technology (AAST) – Cairo, Egypt

Delivered tutorials and laboratory experiments to undergraduate students. Developed new instructional methodologies to improve student performance. Delivered online courses as well as created online exams. Initiated class discussions on subject matter. Conducted and graded student examinations. Ensured completion of assigned syllabus within the time-frame given.

08/2015 to 09/2016	Groundwater Junior Engineer CivilStrict Consulting Company – Cairo, Egypt Design a Sub-surface Drainage system, Supervision of rehabilitation and construction of new wells, Design and analysis of groundwater using GMS.
09/2016 to Present	Surveying Engineer Consultation Center of College of Engineering and Technology, Arab Academy for Science and Technology and Maritime Transport (AASTMT)-Smart Village, Egypt Worked in projects like: Galia water treatment plant, Arab El-Madabeg wastewater treatment plant, Mahager Bridge, Abo-Soltan Bridge, Detailed survey and grid leveling for many projects.

SKILLS

Excellent in Matlab, Very good in R, Very good in VBA, Very good in ArcMap 10.3, Very good in Global Mapper, Good in Hec-HMS, Good in WaterCad, Very Good in Revit Structure, Good in SewarCad, Good in WMS, Good in GMS.

PUBLICATIONS

First Author

1. **Hamed, M.M.,** Nashwan, M.S., Shahid, S., Wang, X.J., Ismail, T.B., Dewan, A., Asaduzzaman, M., “**Future Köppen-Geiger climate zones over Southeast Asia using CMIP6 Multimodel Ensemble**” (2023) (Journal: Atmospheric Research. Q1, I.F. 5.369).
2. **Hamed, M.M.,** Salehie, O., Nashwan, M.S., Shahid, S., “**Projection of temperature extremes of Egypt using CMIP6 GCMs under multiple shared socioeconomic pathways**” (2022). (Journal: Environmental Science and Pollution Research. Q2, I.F. 5.190)
3. **Hamed, M.M.,** Khan, N., Muhammad, M.K.I., Shahid, S., “**Ranking of Empirical Evapotranspiration Models in Different Climate Zones of Pakistan**” (2022). (Journal: Land. Q2, I.F. 3.905)
4. **Hamed, M.M.,** Sammen, S.S., Nashwan, M.S., Shahid, S., “**Spatiotemporal variation of drought in Iraq for shared socioeconomic pathways**” (2022). (Journal: Stochastic Environmental Research and Risk Assessment. Q1, I.F. 3.821)
5. **Hamed, M.M.,** Nashwan, M.S., Ismail, T.B., Shahid, S., “**Projection of Thermal Bioclimate of Egypt for the Paris Agreement Goals**” (2022). (Journal: Sustainability. Q2, I.F. 3.889)
6. Sobh, M.T., **Hamed, M.M.,** Nashwan, M.S., Shahid, S., “**Future Projection of Precipitation Bioclimatic Indicators over Southeast Asia Using CMIP6**” (2022). (Journal: Sustainability. Q2, I.F. 3.889)
7. **Hamed, M.M.,** Nashwan, M.S., Shiru, M.S., Shahid, S., “**Comparison between CMIP5 and CMIP6 Models over MENA Region Using Historical Simulations and Future Projections**” (2022). (Journal: Sustainability. Q2, I.F. 3.889)
8. **Hamed, M.M.,** Nashwan, M.S., Shahid, S., “**Projected changes in thermal bioclimatic indicators over the Middle East and North Africa under Paris climate agreement**” (2022). (Journal: Stochastic Environmental Research and Risk Assessment. Q1, I.F. 3.821)

9. **Hamed, M.M.,** Nashwan, M.S., Shahid, S., Ismail, T., Dewan, A., Asaduzzaman, M., **“Thermal bioclimatic indicators over Southeast Asia: present status and future projection using CMIP6”** (2022). (Journal: Environmental Science and Pollution Research. Q2, I.F. 5.190)
10. **Hamed, M.M.,** Nashwan, M.S., Shahid, S., **“Climatic zonation of Egypt based on high-resolution dataset using image clustering technique”** (2022). (Journal: Progress in Earth and Planetary Science. Q2, I.F. 3.604).
11. **Hamed, M.M.,** Nashwan, M.S., Shahid, S., **“A Novel Selection Method of CIMP6 GCMs for Robust Climate Projection”** (2022). (Journal: International Journal of Climatology. Q2, I.F. 4.069).
12. **Hamed, M.M.,** Nashwan, M.S., Shahid, S., **“Inter-comparison of Historical Simulation and Future Projection of Rainfall and Temperature by CMIP5 and CMIP6 GCMs Over Egypt”** (2022). (Journal: International Journal of Climatology. Q2, I.F. 4.069).
13. **Hamed, M.M.,** Nashwan, M.S., Shahid, S., Ismail, T. bin, Wang, X., Dewan, A., Asaduzzaman, M., **“Inconsistency in historical simulations and future projections of temperature and rainfall: A comparison of CMIP5 and CMIP6 models over Southeast Asia”** (2022) (Journal: Atmospheric Research. Q1, I.F. 5.369).
14. **Hamed, M.M.,** Elsayad, M.A., Mahfouz, S.Y., Khadr, W.H., **“Graphical user interface for water distribution network pressure-driven analysis using artificial elements”** (2022), (Journal: Sustainable Water Resources Management. Q3 Scopus)
15. **Hamed, M.M.,** Nashwan, M.S., Shahid, S., **“Performance evaluation of reanalysis precipitation products in Egypt using fuzzy entropy time series similarity analysis”** (2021). (Journal: International Journal of Climatology. Q2, I.F. 4.069).

Co-author

1. Rady, M., Kineber, A.F., **Hamed, M.M.,** Daoud, A.O., **“Partial Least Squares Structural Equation Modeling of Constraint Factors Affecting Project Performance in the Egyptian Building Industry”** (2023). (Journal: Mathematics. Q1, I.F. 2.592)
2. Kineber, A.F., Oke, A.E., **Hamed, M.M.,** Rached, E.F., Elmansoury, A., **“Modeling the Impact of Overcoming the Green Walls Implementation Barriers on Sustainable Building Projects: A Novel Mathematical Partial Least Squares—SEM Method”** (2023). (Journal: Mathematics. Q1, I.F. 2.592)
3. Kineber, A.F., Oke, A.E., Elseknidy, M., **Hamed, M.M.,** Kayode, F.S., **“Barriers to the Implementation of Radio Frequency Identification (RFID) for Sustainable Building in a Developing Economy”** (2023). (Journal: Sustainability. Q2, I.F. 3.889)
4. Kineber, A.F., Massoud, M.M., **Hamed, M.M.,** Alhammadi, Y., Al-Mhdawi, M.K.S., **“Impact of Overcoming BIM Implementation Barriers on Sustainable Building Project Success: A PLS-SEM Approach”** (2023). (Journal: Buildings. Q2, I.F. 3.324)
5. Kineber, A.F., Oke, A.E., **Hamed, M.M.,** Alyanbaawi, A., Elmansoury, A., Daoud, A.O., **“Decision Making Model for Identifying the Cyber Technology Implementation Benefits for Sustainable Residential Building: A Mathematical PLS-SEM Approach”** (2023). (Journal: Sustainability. Q2, I.F. 3.889)
6. Kineber, A.F., Oke, A.E., **Hamed, M.M.,** Rached, E.F., Elmansoury, A., Alyanbaawi, A., **“A Partial Least Squares Structural Equation Modeling of Robotics Implementation for Sustainable Building Projects: A Case in Nigeria”** (2023). (Journal: Sustainability. Q2, I.F. 3.889)

7. Salehie, O., Ismail, T., **Hamed, M.M.**, Shahid, S., Muhammad, M.K.I., **"Projection of Hot and Cold Extremes in the Amu River Basin of Central Asia using GCMs CMIP6"** (2022). (Journal: Stochastic Environmental Research and Risk Assessment. Q1, I.F. 3.821).
8. Salehie, O., Ismail, T., Shahid, S., **Hamed, M.M.**, Chinnasamy, P., Wang, X., **"Assessment of water resources availability in Amu Darya river basin using GRACE data"** (2022). (Journal: Water. Q2, I.F. 3.103).
9. Salehie, O., **Hamed, M.M.**, Ismail, T., Shahid, S., **"Projection of droughts in Amu river basin for shared socioeconomic pathways CMIP6"** (2022). (Journal: Theoretical and Applied Climatology. Q2, I.F. 3.409).
10. Salehie, O., **Hamed, M.M.**, Ismail, T.B., Tam, T.H., Shahid, S., **"Selection of CMIP6 GCM with projection of climate over the Amu Darya River Basin"** (2022) (Journal: Theoretical and Applied Climatology. Q3, I.F. 3.410).
11. Kineber, A.F., Siddharth, S., Chileshe, N., Alsolami, B., **Hamed, M.M.**, **"Addressing of Value Management Implementation Barriers within the Indian Construction Industry: A PLS-SEM Approach"** (2022). (Journal: Sustainability. Q2, I.F. 3.889)
12. Salman, S.A., **Hamed, M.M.**, Shahid, S., et. al., **"Projecting spatiotemporal changes of precipitation and temperature in Iraq for different shared socioeconomic pathways with selected Coupled Model Intercomparison Project Phase 6"** (2022). (Journal: International Journal of Climatology. Q2, I.F. 4.069).
13. Kineber, A.F., **Hamed, M.M.**, **"Exploring the Sustainable Delivery of Building Projects in Developing Countries: A PLS-SEM Approach"** (2022). (Journal: Sustainability. Q2, I.F. 3.889)
14. Khadr, W.M.H., **Hamed, M.M.**, Nashwan, M. S., **"Pressure Driven analysis of water distribution systems for preventing siphonic flow"** (2022). (Journal: Journal of Hydro-environment Research. Q3, I.F. 2.699)
15. Kineber, A.F., Oke, A.E., Alyanbaawi, A., Abubakar, A.S., **Hamed, M.M.**, **"Exploring the Cloud Computing Implementation Drivers for Sustainable Construction Projects—A Structural Equation Modeling Approach"** (2022). (Journal: Sustainability. Q2, I.F. 3.889)
16. Muhammad, M.K.I., Shahid, S., **Hamed, M.M.**, Harun, S., Ismail, T., Wang, X., **"Development of a Temperature-Based Model Using Machine Learning Algorithms for the Projection of Evapotranspiration of Peninsular Malaysia"** (2022). (Journal: Water. Q2, I.F. 3.530)
17. Kineber, A.F., Kissi, E., **Hamed, M.M.**, **"Identifying and Assessing Sustainability Implementation Barriers for Residential Building Project: A Case of Ghana"** (2022). (Journal: Sustainability. Q2, I.F. 3.889)
18. Kineber, A.F., Mohandes, S.R., **Hamed, M.M.**, Singh, A.K., Elayoty, S., **"Identifying and Assessing the Critical Criteria for Material Selection in Storm Drainage Networks: A Stationary Analysis Approach"** (2022). (Journal: Sustainability. Q2, I.F. 3.889)
19. Alshami, A., Elsayed, M., Mohandes, S.R., Kineber, A.F., Zayed, T., Alyanbaawi, A., **Hamed, M.M.**, **"Performance Assessment of Sewer Networks under Different Blockage Situations Using Internet-of-Things-Based Technologies"** (2022). (Journal: Sustainability. Q2, I.F. 3.889)

Conferences

1. **Hamed, M.M., Nashwan, M.S., Shahid, S., “Projection of Future Thermal Bioclimatic Indicators in Egypt Addressing Paris Agreement Global Warming Goals” (2021).** (5th International Conference on Water Resources).
2. **Hamed, M. M., Khadr, W. H., Mahfouz, S. Y., Elsayad, M. A. (2019) “Different Methods of Water Distribution Network Analysis”,** published and presented in the 2nd International Conference of Chemical, Energy and Environmental Engineering, July 16, 2019, Alexandria, Egypt.