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Associate Professor, College of Engineering and Technology,
Palestine Technical University – Kadoorie (PTUK)

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EDUCATION

2012	Ph.D.	Civil and Environmental Engineering, Utah State University, Logan, Utah, U.S. <i>Dissertation:</i> Improving complementary methods to predict evapotranspiration for data deficit conditions and global applications under climate change
2007	M.Sc.	Water and Environmental Engineering, An-Najah National University, Palestine <i>Thesis:</i> An assessment of the nitrate and chloride in the West Bank groundwater resources using GIS
2007	Diploma	Educational Rehabilitation, Hisham Hijjawi College of Technology, An-Najah National University, Palestine
1997	B.Eng.	Mechanical Engineering/Thermal Power, Mu'tah University, Jordan <i>Project:</i> Modeling of fouling in heat exchangers at Mu'tah heating facility

EXPERIENCE

2013–present	Assistant Professor	Teaching classes, conducting research and training new faculty members at College of Engineering and Technology, PTUK, Tulkarm, Palestine
2016–2018	Head of Department	Directing Mechanical Engineering Department, College of Engineering and Technology, PTUK
2017–2018	Project Director	Managing dual/coop learning project at Palestine Technical University – Kadoorie (PTUK), The World Bank, Palestine
2012–2013	Research Associate	Conducting research at Water and Environment Research Department, The Applied Research Institute – Jerusalem (ARIJ), Bethlehem, Palestine
1999–2013	Vocational Teacher	Teaching classes of auto mechanics and industrial drawing, Nablus and Tulkarm Secondary Vocational Schools, Palestine
2008–2012	Teaching Assistant	Assisting teaching classes of groundwater engineering, Dept. of Civil and Environmental Engineering, Utah State University (USU), Utah, U.S.
2007–2012	Research Assistant	Conducting research at Utah Water Research Laboratory (UWRL), USU, Utah, U.S.
1998–1999	Maintenance Engineer	Working in Maintenance Dept., National Aluminum and Profile Company (NAPCO), Nablus, Palestine

RESEARCH INTERESTS/SKILLS

Water resources engineering, environmental engineering, climate change, GIS applications in water and environmental engineering, modeling hydrologic processes, environmental impact and risk assessment, soil mechanics, renewable energy systems, environmental statistics, environmental economics, agricultural resources, and pedagogy.

PUBLICATIONS IN REFEREED JOURNALS

[Anayah, F.](#), Al-Khatib, I.A., Hejaz, B., 2021. Assessment of water and sanitation systems at Palestinian healthcare facilities: Pre and post COVID-19. *Environmental Monitoring and Assessment*, 193(41), 1–22. DOI: 10.1007/s10661-020-08791-4

[Anayah, F.M.](#), 2020. Optimizing agricultural production with socioeconomic considerations: A case study from Palestine. *Palestine Technical University Research Journal*, 8(2), 58–89. DOI: 10.53671/pturj.v8i2.93

Qureitem, G., Al-Khatib, I.A., [Anayah, F.](#), 2020. Inventory of main greenhouse gas emissions from energy sector in Palestine. *Environmental Monitoring and Assessment*, 192 (63), 1–15. DOI: 10.1007/s10661-019-8027-6

Al-Khatib, I.A., Khalaf, A., Al-Sari, M.I., [Anayah, F.](#), 2020. Medical waste management at three hospitals in Jenin district, Palestine. *Environmental Monitoring and Assessment*, 192(10), 1–15. DOI: 10.1007/s10661-019-7992-0

[Anayah, F.M.](#), Kaluarachchi, J.J., 2019. Estimating global distribution of evapotranspiration and water balance using complementary methods. *Atmosphere-Ocean*, 57(4), 279–294. DOI: 10.1080/07055900.2019.1656052

Siam, L., Al-Khatib, I.A., [Anayah, F.](#), Jodeh, S., Hanbali, G., Khalaf, B., Deghles, A., 2019. Developing a strategy to recover condensate water from air conditioners in Palestine. *Water*, 11(1696), 1–17. DOI: 10.3390/w11081696

Sweileh, W.M., Al-Jabi, S.W., Zyoud, S.H., Shraim, N.Y., [Anayah, F.M.A.](#), Sawalha, A.F., AbuTaha, A.S., 2019. Bibliometric analysis of global publications in medication adherence (1900–2017). *International Journal of Pharmacy Practice*, 27(2), 112–120. DOI: 10.1111/ijpp.12471

Al-Batsh, N., Al-Khatib, I.A., Ghannam, S., [Anayah, F.](#), Jodeh, S., Hanbali, G., Khalaf, B., van der Valk, M., 2019. Assessment of rainwater harvesting systems in poor rural communities: A case study from Yatta area, Palestine. *Water*, 11(585), 1–15. DOI: 10.3390/w11030585

Sweileh, W.M., Al-Jabi, S.W., AbuTaha, A.S., Zyoud, S.H., [Anayah, F.M.A.](#), Sawalha, A.F., 2017. Bibliometric analysis of worldwide scientific literature in mobile - health: 2006–2016. *BMC Medical Informatics and Decision Making*, 17(72), 1–12. DOI: 10.1186/s12911-017-0476-7

Al-Khateeb, A.J., Al-Sari, M.I., Al-Khatib, I.A., [Anayah, F.](#), 2017. Factors affecting the sustainability of solid waste management system-the case of Palestine. *Environmental Monitoring and Assessment*, 189(93), 1–12. DOI: 10.1007/s10661-017-5810-0

[Anayah, F.M.](#), Kaluarachchi, J.J., 2014. Improving the complementary methods to estimate evapotranspiration under diverse climatic and physical conditions. *Hydrology and Earth System Sciences* 18(6), 2049–2064. DOI: 10.5194/hess-18-2049-2014

[Anayah, F.M.](#), Kaluarachchi, J.J., Pavelic, P., Smakhtin, V., 2013. Predicting groundwater recharge in Ghana by estimating evapotranspiration. *Water International*, 38(4), 408-432. DOI: 10.1080/02508060.2013.821642

[Anayah, F.M.](#), Almasri, M.N., 2009. Trends and occurrences of nitrate in the groundwater of the West Bank, Palestine. *Applied Geography*, 29(4), 588-601. DOI: 10.1016/j.apgeog.2009.01.004

PUBLICATIONS IN CONFERENCE PRCEEDINGS

Al-Khatib, I.A., Hejaz, B., [Anayah, F.](#), 2020. Water and wastewater management at healthcare centers in the West Bank of Palestine, The 32nd Annual Conference of the International Society for Environmental Epidemiology: Advancing environmental health in a changing world (Virtual Conference).

[Anayah, F.](#), 2017. Air quality and pollution in Palestine. The First Environmental Day: Go Green. PTUK, Tulkarm, Palestine.

[Anayah, F.](#), Qasem Sulaiman, H., Hamdan, W., Almasri, M.N., 2015. Climate change projections and impacts in the West Bank, Palestine. Dresden Nexus Conference 2015, Dresden, Germany.

Hamed, F., Azouni, R., Khader, A., Abdulbaqi, W., [Anayah, F.](#), 2014. Peer-to-peer learning: a sample from “Technical Writing and Professional Ethics” course. The National Conference on Innovation in Teaching and Learning: From Policy to Practice. PTUK, Tulkarm, Palestine.

Alshurafa, S., [Anayah, F.](#), 2014. Senior-junior education: a case study from “Engineering Economy” course. The National Conference on Innovation in Teaching and Learning: From Policy to Practice. PTUK, Tulkarm, Palestine.

Rashed, N., Abdulbaqi, W., Taha, A., Jitawi, O., Zuraiq, M., [Anayah, F.](#), 2014. Bridging theory and practice: a case study from the “Introduction to Automotive Engineering” course. The National Conference on Innovation in Teaching and Learning: From Policy to Practice. PTUK, Tulkarm, Palestine.

Khaseeb, S., Salah, H., Hasan, D., Jaber, A., Numan, R., [Anayah, F.](#), 2014. Bridging theory and practice: an example from the “Introduction to Automotive Engineering” course. The National Conference on Innovation in Teaching and Learning: From Policy to Practice. PTUK, Tulkarm, Palestine.

Jaber, A., Numan, R., Hasan, D., [Anayah, F.](#), 2014. A survey study to evaluate the “Introduction to Automotive Engineering” course. The National Conference on Innovation in Teaching and Learning: From Policy to Practice. PTUK, Tulkarm, Palestine.

Mousa, R., Na'alweh, N., Najjar, N., Abu Quthila, A., Jarrad, S., Yaseen, M., [Anayah, F.](#), 2014. Student teacher: a case study from the “Renewable Energy Systems” course. The National Conference on Innovation in Teaching and Learning: From Policy to Practice. PTUK, Tulkarm, Palestine.

[Anayah, F.M.](#), 2014. How can we stimulate undergraduate research? The National Conference on Innovation in Teaching and Learning: From Policy to Practice. PTUK, Tulkarm, Palestine.

[Anayah, F.M.](#), Kaluarachchi, J.J., 2012. Is there a global model to reliably predicting Evapotranspiration? Spring Runoff Conference 2012. Logan, Utah, U.S.

Kaluarachchi, J.J., [Anayah, F.](#), Pavelic, P., Smakhtin, V., 2012. Use of complementary relationships in estimating evapotranspiration in diverse climatic and physical conditions, 5th International Groundwater Conference, Association of Geologists and Hydrogeologists, India.

[Anayah, F.M.](#), Kaluarachchi, J.J., 2012. Are actual and crop Evapotranspiration equivalent? Intermountain Graduate Research Symposium 2012. Logan, Utah, U.S.

[Anayah, F.M.](#), Kaluarachchi, J.J., 2011. Evapotranspiration estimation: complementary versus classical methods, Water, Climate, and Sustainability of our Changing World, Spring Runoff Conference 2011. Logan, Utah, U.S.

[Anayah, F.M.](#), Kaluarachchi, J.J., 2010. Can complementary methods reliably estimate evapotranspiration in semi-arid regions? American Geophysical Union (AGU), San Francisco, California, U.S.

[Anayah, F.M.](#), 2009. Multi criterion decision making in agricultural planning in Qalqilya District, Palestine. Climate Change and the Intermountain West: Downscaling the Future, Spring Runoff Conference and 14th Intermountain Meteorology Workshop 2009. Logan, Utah, U.S.

CHAPTERS IN REFEREED BOOKS

Al-Khateeb, A., Al-Khatib, I.A., Al-Sari, M.I., [Anayah, F.](#), 2019. Municipal Solid Waste Management in Two Cities of Palestine: A Comparative Study (Chapter 4). In: R.P. Singh, V. Prasad, B. Vaish (Eds.). Advances in Waste-to-Energy Technologies (1st edition), CRC Press, Taylor and Francis Group, Boca Raton, FL, USA. DOI: 10.1201/9780429423376

AFFILIATIONS

2017	Member	KOICA Alumni Association in Palestine (KAAP)
2014	Member	European Geophysical Union (EGU), Austria
2009	Member	American Geophysical Union (AGU), U.S.
2008	Member	Golden Key International Honour Society, U.S.
2007	Associate member	American Society of Civil Engineers (ASCE), U.S.
1997	Member	Association of Engineers, Jordan and Palestine

OTHERS

2015-present	Technical advisor	American Society of Civil Engineers, An-Najah National University Chapter of students, Nablus, Palestine
2013-present	Reviewer	Journal of the American Water Resources Association, Environmental Monitoring and Assessment, Agricultural and Forest Meteorology, Sustainable Water Resources Management, Applied Water Science, Sustainability Science, Environmental Management and PTUK Research Journal
2013-2016	Consultant	International Water Management Institute, Colombo, Sri Lanka and The Applied Research Institute – Jerusalem (ARIJ), Bethlehem, Palestine
2013-present	External Examiner	M.Sc. thesis defense at An-Najah National University, Nablus and Birzeit University, Birzeit, Palestine.
2009-2012	Researcher	International Water Management Institute, Colombo, Sri Lanka
2006	GIS Trainer	Al-Quds Open University, Qalqilia, Palestine