



INTERNATIONAL AGRICULTURAL RESEARCH
AND TRAINING CENTER

Assoc. Prof

PhD
2021-Ongoing
Ege University
Agricultural Structures and Irrigation

M.Sc.
2011-2013
University of South Australia
Water Resources Management

Bachelor's Degree
2005-2009
Uludag University
Biosystems Engineering

LANGUAGE
İngilizce YÖKDİL 72.5 / YDS 78.5

2021 – Researcher, International Agricultural Research and Training Centre - İZMİR

2016-2017 Engineer, Private Sector- ESKİŞEHİR

2015-2016 Engineer, Private Sector- KONYA

I obtained my B.S.E. in Biosystems Engineering fr in 2014 and M.Sc. in Water Resources Management from University of South Australia in 2020. With more than 2 years private sector experience, I currently work as a researcher at agricultural research institution in Turkey. Since joining International Agricultural Research and Training Centre in 2021, I have been involved in research projects based on agricultural irrigation systems design, agricultural water quality, soil salinization and wetlands as a project participant from major funding body, General Directorate of Agricultural Research and Policies and Private Sector. More recently, I am working on agricultural water quality, water treatment and reuse treated waters in agricultural irrigation.

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BAYRAM AKYOL, M.Sc.

Biosystems Engineer



■ **PROJECTS**

■ **Projects Conducted**

1. Establishment of Redistribution Model with Priority of Participant Demands for Land Consolidation – 2014.

■ **Ongoing Projects**

1. Development of a Data-Based Variable Rate Irrigation System - (Japanese Government Cooperation, Researcher),
2. Development of Regenerative Agriculture Techniques in Cotton Production - (GDARP-Private Sector Cooperation, Researcher),
3. Use of Marginal Water in Agriculture – (GDARP, Researcher),
4. Development of Digital Irrigation Systems for Maize in Aegean Region – (GDARP, Researcher),
5. Development of Digital Irrigation Systems for Wheat in Aegean Region – (GDARP, Researcher),
6. Determination of water quality of Eşen Stream in the Western Mediterranean Basin and its' evaluation in terms of agricultural irrigation – (GDARP, Researcher).

■ **PUBLICATIONS**

■ **INTERNATIONAL ARTICLES AND PAPERS**

■ **Articles Published in International Journals**

1. Daraei, H., **Akyol, B.**, Khedher, M., Bertone, E., Awad, J., Stewart, R.A., Chow, C., Duan, J. and van Leeuwen, J.A., 2023. Continuous Floc Image Analyser (C-FIA) For Tracking Floc Particles Dynamics During Coagulation-Flocculation-Settling Processes. *Environmental Science: Water Research & Technology*. [DOI:10.1039/D2EW00389A](https://doi.org/10.1039/D2EW00389A),
2. Awad, J., Hewa, G., Myers, B. R., Walker, C., Lucke, T., **Akyol, B.**, & Duan, X., 2022, Investigation of the potential of native wetland plants for removal of nutrients from synthetic stormwater and domestic wastewater. *Ecological Engineering*, 179, 106642. [DOI: 10.1016/j.ecoleng.2022.106642](https://doi.org/10.1016/j.ecoleng.2022.106642).

■ **International Papers, Seminars, etc.**

1. **Akyol, B.**, Duan, Xuanhua, Hewa, G, Awad, J, Myers B, 2022, 'The Water Treatment Performance of Constructed Floating Wetlands', *Chem2Change: Environmental Chemistry Towards Global Change*, Univerzita Pardubice <<https://eshop.upce.cz/epub/9007340/>>,
2. Daraei, H, Bertone, E, Khedher, M, Chow W.K., C, Awad, J, **Akyol, B.**, Duan, J, Leeuwen V, J, STEWART A., R & Devendrakumar, P 2021, 'Continuous Floccs Image Analyser (C-FIA) For Floccs Dynamics Tracking During Conventional Water Treatment', 17 th International Conference on Environmental Science and Technology. [DOI:10.30955/gnc2021.00444](https://doi.org/10.30955/gnc2021.00444).



BAYRAM AKYOL, M.Sc. Biosystems Engineer



▪ NATIONAL ARTICLES AND PAPERS

▪ Articles Published in National Journals

1. **Akyol, B.**, Duan, X. & Yeşilekin, N., 2022, Assessing the Potential Resistance of Floating Vegetation Against Different Flow Rates. Turkish Journal of Water Science and Management, 6 (2), 275-298. [DOI: 10.31807/tjwsm.111285](https://doi.org/10.31807/tjwsm.111285)

▪ National Papers, Seminars, etc.

1. Gündüz, M., Yeşilekin N., **Akyol, B.**, Tarı Akap, P., Yüzbaşı, Ş., and Alkan, Ü., 2022, Assessment of Soil Physical and Chemical Properties for Agricultural Areas in the Menemen Plain Near the Sea, IV. Balkan Agricultural Congress, August 31 - September 3rd, 2022, Edirne, Turkey

▪ OTHER PUBLICATIONS

▪ Ph.D. Thesis, Master Thesis, Reports, Books etc.

1. The Performance of Constructed Floating Wetlands – Master Thesis.

▪ Membership, Training, Course, Meeting, Congress, Symposium and Other Activities

1. Efficient Water Use in Olive Groves in a Context of Climate Change, CIHEAM, Zaragoza, SPAIN, 2023,
2. DSSAT 2023 Introductory Training Course - University of Florida, Ankara University, 2023,
3. IWA Publishing Open Access Ambassador, 2021 – present,
4. 8th International Course on Sustainable Irrigation Management- IARTC, 2022,
5. Evaluation of Irrigation Water Quality in Agriculture – Ege University, 2022,
6. Introduction of TAGEM SuET program – Ege University, 2022,
7. The Driving Licence of Unmanned Aerial Vehicle (UAV) - GDARP, 2022,
8. Advanced Soil Health Course – Cornell University, 2021,
9. 7th International Course on Sustainable Irrigation Management- IARTC, 2021,
10. Academic English (AE5) Course – University of South Australia, 2020,
11. Implementation of Computer Aided Land Consolidation Project – Uludag University, 2014,
12. Care and Feeding of Dairy Cattle – SUTAS, 2013,
13. Third Eye for Entrepreneurs: STATISTICS – Uludag University, 2013,



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14. AutoCAD 2012 – Group Design, 2013,
15. ERASMUS – Wrocław University, 2012.