

# GÜNSELİ ERDEM

Hydrogeologist, MSc.  
PhD Candidate

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## **RESEARCH INTERESTS**

Hydrogeology, Hydrology, GIS and Remote Sensing, UAV Applications in Geosciences, Soft Computing Methods, Artificial Neural Networks, Groundwater Contamination, Hydrogeological Models, Isotope Hydrology, Aquifer Tests, Water Resource Management, Geothermal Resources, Environmental Hydrogeology, Environmental Impact Assessments, Karst Hydrogeology, Hydrogeochemistry.

## **EDUCATION**

- 2016- PhD University of Poitiers, France  
IC2MP – Hydrogeology
- 2016- PhD Muğla Sıtkı Koçman University, Turkey  
Hydrogeology
- 2013-2014 MSc University of Poitiers,  
France  
Hydrogeology and Associated  
Transfers
- 2012-2015 MSc Muğla Sıtkı Koçman University,  
Turkey  
Hydrogeology
- 2008-2012 BSc Hacettepe University, Turkey  
Hydrogeology

## **FELLOW**

- 2016-2017 PhD French Government fellow.
- 2013-2014 MSc French Government and Muğla Sıtkı Koçman Foundation fellow.

## **LANGUAGES**

Turkish – Native, English-C2-CEF, French-B1-DUEF,  
German-B1-ZDP

## **CONFERENCE PAPERS**

- Erdem, G., Sağır, Ç., Kurtuluş, B., Avşar, Ö., Tunca, E., Le Coz, M., Razack, M. (2017) Nitrate assessment of karst springs in Gökova, SW Turkey. 7th International Groundwater Conference (IGWC 2017) on Groundwater Vision 2030 11-13 December, 2017/New Delhi, India.
- Düzaş, E., Kurtuluş, B., Erdem, G., Sağır, Ç., Gürçan, T., Avşar, Ö., Regnier, J., Le Coz, M., Razack, M. (2017) Electrical resistivity tomography (ERT) and induced polarization (IP) applied to karst alluvium: Case study from Azmak spring, Muğla, Turkey. 7th International Groundwater Conference (IGWC 2017) on Groundwater Vision 2030 11-13 December, 2017/New Delhi, India.
- Sağır, Ç., Erdem, G., Kurtuluş, B., Avşar, Ö., Kurtuluş, D. F., Tunca, E., Le Coz, M., Razack, M. (2017) Potential of unmanned aerial vehicle (UAV) remote sensing in karst springs: Muğla, Turkey. 7th International Groundwater Conference (IGWC 2017) on Groundwater Vision 2030 11-13 December, 2017/New Delhi, India.
- Sağır, Ç., Kurtuluş, B., Erdem, G., Avşar, Ö., Kurtuluş, D. F., Tunca, E., Le Coz, M., Razack, M. (2016) UAV applications in hydrology: A case study in Gökova Basin, Muğla, Turkey. American Geophysical Union (AGU) Fall Meeting, 12-16 December, 2016 /San Francisco, The United States of America.
- Erdem, G., Sağır, Ç., Canoğlu, M.C., Kurtuluş, B. (2016) Comparison of Empirical Bayesian Kriging and Geo-Anfis Methods for Interpolating Hydraulic Head in a Karst Alluvium. 8th International Congress on Environmental Modelling and Software (iEMSs) 10-14 July 2016, Toulouse/France, v3, 730.
- Erdem, G., Kurtuluş, B., Razack, M. (2015) Groundwater Quality Mapping Based on "GEO-ANFIS" Method in a Karstic Aquifer (Dogger Aquifer, Poitiers, France), Muğla. 68th Geological Congress of Turkey, 6-10 April, 2015/Ankara/Turkey.
- Tunca, E., Sağır, Ç., Erdem, G., Kurtuluş, B. (2014) Heavy Metal Correlations in Water Wells of Karabaglar Polje, FABA 2014: International Symposium on Fisheries and Aquatic Sciences, 25-27 September, 2014/Trabzon/Turkey.



## **ARTICLES**

- Erdem, G., Sağır, Ç., Kurtuluş, B., Flipo, N., Razack, M. (2016) Assessing the spatial hydraulic head distribution using Empirical Bayesian Kriging and ANFIS in the karstic Dogger Aquifer, Poitiers, France. Submitted manuscript.
- Kurtuluş, B., Sağır, Ç., Erdem, G., Tunç, S. O., Canoğlu, M. C., Tunca, E. (2017) Assessing heavy metal contamination in Asartepe Dam Lake (Ankara, Turkey) using pollution indices and geostatistics. Under review manuscript.

## **COMPUTER COMPETENCE**

ArcGIS, ModelMuse, ModFlow, ModelViewer, NetCAD, AquiferWin 32, Corel Draw, CropWat, Global Mapper, GW Chart, AQTESOLV, Groundwater Vistas, Hydrus, Surfer, JChess, Feflow, GMS, Matlab, Grass GIS, QGIS.

## **RESEARCH PROJECTS**

- GRECPIMA - Groundwater Resilience to Climate Change and High Pressure within an IWRM Approach (2016) ERANETMED, Partners; CNRS (France), University of Poitiers (France), National School of Hydraulics (Algeria) and Muğla Sıtkı Koçman University (Turkey).
- Assessment of Gökova Karstic Aquifer System in West Mediterranean Basin of Turkey by the Hydrogeochemical and Isotopic Analysis (2016) Scientific Research Projects Funding of Muğla Sıtkı Koçman University, Turkey.