

## Asst. Prof. Ömer Yetemen

### Personal Information

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### Biography

Omer joined in Eurasia Institute of Earth Sciences at Istanbul Technical University in December 2019. His research interests are ecohydrology, geomorphology, and landscape evolution modeling.

### Education Information

Doctorate, University of Washington, Civil Engineering, Civil Engineering, United States Of America 2009 - 2014

Post Graduate, University of Nebraska-Lincoln, Geosciences, Geosciences, United States Of America 2006 - 2008

Post Graduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Geological Engineering, Turkey 2005 - 2007

Under Graduate, Istanbul Technical University, Maden, Jeoloji Mühendisliği, Turkey 1998 - 2005

### Dissertations

Doctorate, Modeling the ecohydrologic role of solar radiation on catchment development in semiarid ecosystems, University of Washington, 2014

Post Graduate, Afyon ili Ömer-Gecek jeotermal sahasının enerji kullanım davranışının incelenmesi, Istanbul Technical University, Fen Bilimleri Enstitüsü, Geological Engineering, 2006

### Research Areas

Environmental Engineering, Geological Engineering, Civil Engineering

### Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Avrasya Yer Bilimleri Enstitüsü, İklim Ve Deniz Bilimleri, 2019 - Continues

Assistant Professor, University of Newcastle, 2016 - 2019

Research Assistant PhD, University of Saskatchewan, 2014 - 2016

Research Assistant, University of Washington, 2009 - 2014

Research Assistant, The University of Nebraska-Lincoln, 2006 - 2009

### Courses

Hydrology, Under Graduate, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020

Environmental Engineering Project - II, Under Graduate, 2016 - 2017, 2017 - 2018, 2018 - 2019

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Ecohydrology Controls the Geomorphic Response to Climate Change**  
Yetemen Ö., Saco P. M. , Istanbuluoglu E.  
GEOPHYSICAL RESEARCH LETTERS, vol.46, pp.8852-8861, 2019 (Journal Indexed in SCI)
- **The influence of meteorological conditions and atmospheric circulation types on PM10 levels in western Turkey**  
Baltaci H., AKKOYUNLU B. O. , Arslan H., Yetemen Ö., Ozdemir E. T.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.191, 2019 (Journal Indexed in SCI)
- **Mapping landscape-level hydrological connectivity of headwater wetlands to downstream waters: A catchment modeling approach - Part 2**  
Yeo I., Lee S., Lang M. W. , Yetemen Ö., McCarty G. W. , Sadeghi A. M. , Evenson G.  
SCIENCE OF THE TOTAL ENVIRONMENT, vol.653, pp.1557-1570, 2019 (Journal Indexed in SCI)
- **Mapping landscape-level hydrological connectivity of headwater wetlands to downstream waters: A geospatial modeling approach - Part 1**  
Yeo I., Lang M. W. , Lee S., McCarty G. W. , Sadeghi A. M. , Yetemen Ö., Huang C.  
SCIENCE OF THE TOTAL ENVIRONMENT, vol.653, pp.1546-1556, 2019 (Journal Indexed in SCI)
- **Solar radiation as a global driver of hillslope asymmetry: Insights from an ecogeomorphic landscape evolution model**  
Yetemen Ö., Istanbuluoglu E., Duvall A. R.  
WATER RESOURCES RESEARCH, vol.51, pp.9843-9861, 2015 (Journal Indexed in SCI)
- **Ecohydrologic role of solar radiation on landscape evolution**  
Yetemen Ö., Istanbuluoglu E., Flores-Cervantes J. H. , Vivoni E. R. , Bras R. L.  
WATER RESOURCES RESEARCH, vol.51, pp.1127-1157, 2015 (Journal Indexed in SCI)
- **The implications of geology, soils, and vegetation on landscape morphology: Inferences from semi-arid basins with complex vegetation patterns in Central New Mexico, USA**  
Yetemen Ö., Istanbuluoglu E., Vivoni E. R.  
GEOMORPHOLOGY, vol.116, pp.246-263, 2010 (Journal Indexed in SCI)
- **Local warming of groundwaters caused by the urban heat island effect in Istanbul, Turkey**  
Yalcin T., Yetemen Ö.  
HYDROGEOLOGY JOURNAL, vol.17, pp.1247-1255, 2009 (Journal Indexed in SCI)
- **Climatic parameters and evaluation of energy consumption of the Afyon geothermal district heating system, Afyon, Turkey**  
Yetemen Ö., Yalcin T.  
RENEWABLE ENERGY, vol.34, pp.706-710, 2009 (Journal Indexed in SCI)
- **Eco-geomorphic implications of hillslope aspect: Inferences from analysis of landscape morphology in central New Mexico**  
Istanbuluoglu E., Yetemen Ö., Vivoni E. R. , Gutierrez-Jurado H. A. , Bras R. L.  
GEOPHYSICAL RESEARCH LETTERS, vol.35, 2008 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Vegetation and soil degradation in drylands: Non linear feedbacks and early warning signals**  
Saco P. M. , Moreno-de las Heras M., Keesstra S., Baartman J., Yetemen Ö., Rodríguez J. F.  
Current Opinion in Environmental Science and Health, vol.5, pp.67-72, 2018 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- **Aspect-controlled spatial and temporal soil moisture patterns across three different latitudes.**  
Srivastava A., Yetemen Ö., Kumari N., Saco P. M.  
The 23rd International Congress on Modelling and Simulation (MODSIM 2019), Canberra, Australia, 1 - 06 Aralık 2019, pp.979-985
- **Applying rainfall ensembles to explore hydrological uncertainty**

Yetemen Ö.

The 23rd International Congress on Modelling and Simulation (MODSIM 2019), Canberra, Australia, 1 - 06 Aralık 2019, pp.1070-1076

- **The spatio-temporal NDVI analysis for two different Australian catchments**

Yetemen Ö.

The 23rd International Congress on Modelling and Simulation (MODSIM 2019), Canberra, Australia, 1 - 06 Aralık 2019, pp.958-964

- **Implications of dynamic vegetation as an erosional response to climate change in semi-arid landscapes**

Yetemen Ö.

AGU Fall Meeting, District-Of-Columbia, United States Of America, 10 - 14 Aralık 2018, pp.5206

- **Evolution of wetland monitoring from inventory to functional assessment and modelling: a case study from a US catchment**

Yetemen Ö.

The 22nd International Congress on Modelling and Simulation (MODSIM2017), Hobart, Australia, 3 - 08 Aralık 2017, pp.1537-1543

## Citations

Total Citations (WOS):191

h-index (WOS):6

## Awards

Yetemen Ö., Outstanding Reviewer Award, Environmental Research Letters, March 2019

Yetemen Ö., Water Resources Research Editor's Choice Award, American Geophysical Union, December 2016

Yetemen Ö., Farouk El-Baz Student Research Award, Geological Society Of America, May 2012