

**Yakup Darama, Ph.D.**  
**Professor of Hydraulics and Water Resources**

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#### PERSONAL

<b>Date of Birth</b>	1961
<b>Place of Birth</b>	Çakmak-Giresun

#### EDUCATION

1986-1991	Michigan State University, Civil Engineering (Hydraulics and Hydrology), Ph.D.
1984-1985	Michigan State University, Civil Engineering (Hydrologic Modelling), M.S.
1978-1982	İstanbul Technical University, Civil Engineering, B.S.

#### ACADEMIC POSITIONS

<b>October/2022-Present</b>	Professor, Department of Civil Engineering, Atılım University, Ankara, Turkey (Full Time)
<b>October/2022-Present</b>	Professor, Department of Civil Engineering, Middle East Technical University, Ankara, Turkey (Part Time)
<b>September/2013-2022</b>	Associate Professor, Department of Civil Engineering, Atılım University, Ankara, Turkey (Full Time)
<b>September/2006</b>	Associate Professor, Department of Civil engineering Middle East Technical University, Ankara, Turkey (Part Time)
<b>September/1985-June/1991</b>	Research Assistant, Department of Civil and Environmental engineering Michigan State University, USA

#### ADMINISTRATIVE DUTIES

<b>July 2022-Present</b>	Chairman, Civil Engineering Department, Atılım University, Ankara, Turkey
<b>June/2001-September/2013</b>	Deputy Department Head, State Hydraulic Works
<b>September/1993</b>	Manager, State Hydraulic Works Research Department Hydraulic Laboratory

#### HONORS&AWARDS

<b>1</b>	Graduation award of top 1% of Civil Engineering graduates in 1982, Istanbul Technical University, Civil engineering Faculty
<b>2</b>	Honor List in 1989 and 1990 of Civil and Environmental Engineering Department, Engineering College, Michigan State University, MI, USA

#### RESEARCH INTERESTS

<b>1</b>	Hydrologic Modeling, Hydraulic Modeling, Sediment transport in rivers
<b>2</b>	Groundwater flow modeling, Reservoir sedimentation, Floods

## PROFESSIONAL SERVICE

1	Member, Turkish Chambers Of Civil Engineering (IMO)
2	Member, International Association of Hydraulic Research
3	Member, International Hydrological Sciences Association
4	Reviewer, Water Policy Journal
5	Reviewer, Hydrological Science Journal
6	Reviewer, Water Resources Management
7	Reviewer, Natural Hazards
8	Reviewer, Technical Journal, Turkish Civil Engineering Union (IMO)
9	Review Editor, Water Resources Management, Frontiers in Water

## PUBLICATIONS

1	S. H., Topraghghaleh, K. Yılmaz, Y. Darama, Z. Bozkuş, “Comparative Analysis of Slope-Length Factor and Topographic Resolution on Erosion Prediction and Reservoir Sedimentation in a Large River Basin”, Submitted to International Soil and Water Conservation Research, First revision, 11.09.2025
2	K. Yılmaz, Y. Darama, Y. Oruc, A. B. Melek, “ <b>Assessment</b> of Flood Hazards due to Overtopping and Piping in Dalaman Akköprü Dam, Both Employing Shallow Water Flow & Diffusive Wave Equations”, Natural Hazard, DOI :10.1007/s11069-023-05891-5 2023.
3	Y. Darama, K. Yılmaz and B. Melek, “Land degradation by erosion occurred after Irrigation Development in the Harran Plain, Southeastern Turkey”, Environmental Earth Science, DOI : 10.1007/s12665-021-09372-5, 2021.
4	M.A. Khudhair, K. N. Sayl, Y. Darama, “Locating Site Selection for Rainwater Harvesting Structure using Remote Sensing and GIS”, (ICSET 2020), IOP Conf. Series:Material Science and Engineering Journal, 881 (2020), doi:1088/1757-899X/881/1/012170
5	Darama Y., Selek Z., Selek B., M.A. Akgul, M. Dagdeviren ,”Determination of Sediment Deposition in Hasanlar Dam using Bathymetric and Remote Sensing Studies”, Natural Hazards, DOI: 10.1007/s11069-019-03635-y, 2019
6	Marım, G., Y. Darama, Z. Bozkuş, “Optimization of Irrigation Pipe Network”, Teknik Dergi, TMMOB, İnşaat Mühendisleri Odası, Vol. 29, No:5, September 2018, (DOI:10.18400/tekder.306880), 2018.
7	Kavvas, M.L., K. Ishida, T.Q. Trinh, A. Ercan, Y. Darama, K.J. Kara, “Curent Issues in and an Emerging Method for flood Frequency Analysis under Changing Climate”, Hydrological Research Letters, Japan Society of Hydrology and Water Resources, 11(1). pp. 1-5, 2017.
8	Trinh, T. Q., J. Su-hyung, K. Ishida, N. Ohara, R. Chen, M. L. Anderson, Y. Darama, Jiongfeng Chen, M.L. Kavvas, “Reconstruction of Historical Water Supply from Shasta Dam Watershed by Coupling a Physically-Based Hydro-Climate Model with a Reservoir Operation Model” <u>ASCE Journal of Hydological Engineering</u> , 10.1061/ (ASCE) HE.1943-5584.0001391, 2016.
9	Darama, Y., K. Seyrek, “Determination of Watershed Boundaries in Turkey by GIS Based Hydrological River Basin Coding”, Journal of Water Resources Protection, Scientific Research Publishing, 8, pp. 965-98, /10.4236/jwarp.2016.811078, 2016.

10	Trinh Q. T., K. Ishida, I. Fischer, J. Su-hyung, J. Nosacka, Y. Darama, K. Brown, M.L. Kavvas, "New Methodology to Develop Future Flood Frequency under Changing Climate by Means of Physically-based Numerical Atmospheric-Hydrologic Modeling", <u>ASCE Journal of Hydrological Engineering</u> , 10.1061/(ASCE)HE.1943-5584.0001331, 2016.
11	Darama Y. "Comment on "Groundwater Depletion in the Middle East from GRACE With Implications for Transboundary Water Management In the Tigris-Euphrates-Western Iran Region", by Katalyn A.Voss, James S. Famiglietti, MinHui Lo, Caroline de Linage, Matthew Rodell and Sean C. Swenson, <u>Water Resources Research</u> , January 2014.
12	Kokpınar, M., Darama, Y., Guler I., "Physical and numerical modeling of shoreline evaluation of the Kızılırmak River mouth, Turkey", <u>Journal of Coastal Research</u> , Vol. 23, No. 2, pp. 445-456, 2007.
13	Darama Y., "Stream depletion by a pumping well including the effects of nonlinear variation of evaporation from a phreatic Aquifer", <u>Hydrological Sciences Journal</u> , Vol:49, No.3, pp. 443-460, 2004.
14	Darama Y., "An analytical solution for stream depletion by cyclic pumping well near streams with Semipervious beds", <u>Groundwater</u> , Vol 39, No. 1, pp. 79-86, 2001.
15	Darama, Y., "Interaction between surface water and groundwater resources in the presence of a pumping well", <u>Technical Journal of Civil Engineering (Teknik Dergi)</u> , Vol. 7, No. 2, pp. 1167-1185, April 1996.
16	Darama, Y., Wallace, R.B., , and M.D. Annable, "Stream depletion by cyclic pumping of wells", <u>Water Resources Research</u> , Vol. 26, No. 6, pp. 1263-1270, 1990

## INTERNATIONAL CONFERENCES AND PRESENTATIONS

1	K. Yılmaz, S. Topraghghaleh, <b>Y. Darama</b> , N. Kağncıoğlu, "Determination of Sediment Transport of Coruh River by Field Observation and MUSLE Method", 15 <sup>th</sup> Advances in Civil Engineering Congress, ACE 2023, Eastern Mediterranean University, 6-8 September 2023, Famagusta, North Cyprus
2	S. Yılmaz, M.T.Yılmaz, M. Ak, S. S. Çallı, <b>Y. Darama</b> , E. Kentel Erdoğan, B. Gümüş, N. Kağncıoğlu, S. Topraghghaleh, M. Yılmaz, B. R. Yurtseven, İ. Yücel, "Investigation of the Effects of Climate Change on Surface Water Potential in the Çoruh Basin", 15 <sup>th</sup> Advances in Civil Engineering Congress, ACE 2023, , Eastern Mediterranean University, 6-8 September 2023, Famagusta, North Cyprus
3	<b>Darama, Y.</b> , M.A. Akgül, "Sedimentation of Hasanlar Dam Reservoir Using Bathymetric Field Studies and GIS", 14 <sup>th</sup> International Conference on Hydrosience and Engineering Proceeding pp. 331-341, 26-27 May 2022, İzmir, Turkey.
4	K. Yılmaz, Y. Oruc, <b>Y. Darama</b> , A. B. Melek, "Determination of Flood Hazard due to Breaching of Dalaman Akköprü Dam and Evaluation of Mitigation Measures", , 14 <sup>th</sup> International Conference on Hydrosience and Engineering Proceeding pp. 587-598, 26-27 May 2022, İzmir, Turkey
5	<b>Darama Y.</b> , "Erosion and Sediment Transport Problems in the Harran Plain", Proceedings of the 10 <sup>th</sup> International Congress on Advances in Civil Engineering, Middle East Technical University, 17-19 Ekim 2012, Ankara, Turkey, 2012 .
6	Keskin F., <b>Darama Y.</b> , "3-D Flood Modeling of the Iluh River in Southeastern Turkey by Using HEC-RAS and HEC-GeoRAS", International Conference River Flow 2008, 3-5 September 2008, and published in Conference proceedings pp.2271-2276, Izmir, Turkey.-
7	<b>Darama Y.</b> , "Sediment Transport by the Drainage Channels of the Harran Plain in the Southeastern Anatolian Project", Proceedings of the 6th International Congress on Advances in Civil Engineering, Bogazici University, Vol II, pp. 1219-1227, Istanbul, Turkey, 2004 .

8	<b>Darama Y.</b> , M.A. Hatipoğlu, K. Seyrek, M.A. Kökpınar, “Problems related to Soil Erosion and Sediment Transport in the Şalıurfa-Harran Irrigation Scheme”, International Congress in River Basin Management, Vol. I, pp 538-553, 22-24 March 2007, Antalya-Turkey.
9	<b>Darama Y.</b> , “Interactions between Stream and Phreatic Aquifer in the Presence of a Pumping Well, Abstract Book of the 2005 Groundwater Summit, National Groundwater Association, pp. 33-34, April 17-20, 2005, San Antonio, Texas, USA.
10	Hatipoğlu, M., and <b>Darama Y.</b> , “Hydro schemes in southeastern Anatolian project (GAP)”, Proceedings of the 6th International Congress on Advances in Civil Engineering, Bogazici University, Vol II, pp. 1256-1264, Istanbul, Turkey, 2004.
11	Darama, Y., “Hydraulics of the Cine Dam Stepped Spillway Model”, Proceedings of XXX IAHR Congress, Theme D, Experiences from Models and Prototypes, pp. 479-487, Thessoliniki, Greece 24-27 August 2003.
12	<b>Darama, Y.</b> , M.A. Kökpınar and I. Guler, “Coastal Erosion of the Bafra Plain Near the Kızılırmak Mouth and Protection Structures”, Proceedings of XXX IAHR Congress, Theme A: Coastal Protection, pp. 521-530, Thessoliniki, Greece 24-27 August 2003.
13	Darama, Y., "Prediction of Flood Frequencies by Stochastic-Deterministic Hydrological Model", International Symposium on River Flood Defence, Kassel Reports of Hydraulic Engineering, No. 9/2000, Kassel, Germany, 2000.
14	Demiröz E., <b>Y. Darama</b> , L. Kuzum, "Determination of the effectiveness of the aerators placed on the spillway discharge channels of the Keban Dam", International Conference on Large Dams (ICOLD), Q.71-R.24, pp. 353-367, Durban, South Africa, 1994.
15	Demiröz E., and <b>Y. Darama</b> , "A comparative study between the prototype and laboratory data of the aerators placed on the spillway discharge channels of the Keban Dam", International Symposium on Hydraulic Research in Nature and Laboratory, Proceedings, Vol. 1, p 144-150, Wuhan, China, Nov. 17-20, 1992.

## NATIONAL CONFERENCES AND PRESENTATIONS

1	Yılmaz K., Y. Darama, “Milas İlçesinde RUSLE Yöntemi Kullanılarak Erozyon Riskinin Belirlenmesi”, Proceeding ISBN:978-605-01-1549-9, pp: 907-917, 18th Technical Congress and Exhibition of IMO, 7-9 November, 2022, İstanbul, Turkey
2	<b>Darama, Y.</b> , İ. Kaş, M. A. Kökpınar, “Rehabilitation of the Kozlu Creek Black Sea outlet”, V. National Coastal Engineering Symposium, pp. 223-254, Vol. 2, 5-7 May 2005, Bodrum, Turkey.
3	<b>Darama Y.</b> , S. Kapdaşlı, D. Z. Şeker, “Rehabilitation of River Mouths an Example study: Riva Creek”, IV. National Coastal Engineering Symposium, pp 713-730, October 2002, Antalya, Turkey
4	Guler I., <b>Y. Darama</b> , M. A. Kokpınar, “Coastline Changes at the Kızılırmak River Mouth”, IV. National Coastal Engineering Symposium, pp 703-711, October 2002, Antalya, Turkey.
5	Kökpınar M.A., I. Güler, <b>Y. Darama</b> , “Investigation of Coastal Erosion at the Bafra Plain near the Kızılırmak-Black Sea Junction”, III National Coastal Engineering Symposium, pp 507-542, 5-7 October 2000, Çanakkale, Turkey.
6	Darama, Y., "Determination of Flow Characteristics in the Spillway Discharge Channels and Energy Dissipaters", Vth National Symposium on Hydraulic Engineering Problems, pp. 18-1 – 18-22, 21-23 September 1998, Muğla, Turkey
7	Acar Ö., H. Önder, <b>Y. Darama</b> , “Numerical Simulation of Groundwater Flow in the Misli Plain in the Central Anatolia: Application of Modflow Program Package”, V <sup>th</sup> National Symposium on Hydraulic Engineering Problems, pp. 5-1– 5-21, 21-23 September 1998, Muğla, Turkey.

<b>8</b>	Üzücek, E., <b>Y. Darama</b> , D. Yıldız, "Determination of Scour Depth and Location at the Downstream of Flip-Bucket Type Energy Dissipaters", IV National Symposium on Computer Models Used in Civil Engineering, Istanbul Technical University, October 1993, Istanbul, Turkey.
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## PROJECTS

<b>1</b>	"İklim Değişikliğinin Çoruh Havzasındaki Yüzey Su Potansiyeline ve Ardışık Barajlardaki Enerji Üretimine Etkilerinin İncelenmesi", TÜBİTAK-1001 Environment Atmosphere Land and Ocean Research Support Group (ÇAYDAG) Project, Project No: 121Y456, Principal Investigator, 04/2022-03/2025
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## CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	132
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## COURSES GIVEN

<b>1</b>	Hydrology
<b>2</b>	Irrigation and Drainage
<b>3</b>	Fluid Mechanics
<b>4</b>	Hydraulic Engineering (Hydromechanics)
<b>5</b>	Urban Hydraulics
<b>6</b>	Hydrology and Water Resources
<b>7</b>	Open Channel Hydraulics
<b>8</b>	Dimensional Analysis and Hydraulic Modelling
<b>9</b>	Porous Media Flow

## THESES SUPERVISED

<b>1</b>	PhD Thesis, "Sediment Transport of Coruh River Basin", ODTU, August 2025
<b>1</b>	PhD Thesis, "GIS Integrated Pipe Irrigation Network Optimization", ODTÜ, August 2020
<b>2</b>	MS Thesis, "The Importance and Determination of Manning's Roughness Coefficient in Natural Channel by Cowans's Method During Floods", 2014
<b>3</b>	MS Thesis "Optimization of the Atabey Pipe Irrigation Network by Using SUFEN Network Software", Completed on January 10, 2019
<b>4</b>	MS Thesis, "Flood Inundation Damage of the Himreen Dam in Northeast of Bagdad, Iraq by using HEC-RAS", September 2019
<b>5</b>	MS Thesis, "Site Selection of a Rainwater Harvesting Structure in Al-Muhammadi Valley in Anber Province, Iraq using Remote Sensing and GIS Techniques", July 2020