

CURRICULUM VITAE

Name, Surname: Mahnaz Gümrukçüoğlu

Adres :Sakarya University, Environmental Engineering Department, 54187, Sakarya, Turkey.
Tel. # 90 264 2955637
Mobil: # 90 542 5242355
e.mail: mahnaz@sakarya.edu.tr

Birth Date and Place: February 28, 1966, Istanbul

Education :

Ph.D : Istanbul University, Institute of Marine Science and Geography, Climatology - Meteorology Department, 1994.

M.Sc : Istanbul University, Institute of Marine Science and Geography, Climatology - Meteorology Department ,1988.

B.S : Istanbul University, Department of Geography, 1986.

Language : English

Interested Area : Climatology, GIS, Soil Erosion, Sustainable Development

Lectures :

Climate and Environment, Global Climate Changes, Ecology, Urbanization and Environmental Planning, Environmental Law, Environmental Geology, Geographic Information Systems

Research Experiments :

Master Thesis : The Effects of Altitude on Climate Parameters in Turkey

Ph.D Thesis : The Effects of Topography in Precipitation Distribution over Turkey

Job Experiences:

1991-1997 : Research Assistant, Bosphorus University.

1997- 2017 : Assis. Professor, Sakarya University

2017- : Assoc.Prof.Dr., Sakarya University

Scholarship :

- NATO-ASI Bursary: Summer School :‘The Determination of Geophysical Parameters from Space’, Dundee University, August 15th - September 3rd ,1994. Dundee, Scotland.

- MASHAV Bursary: Training Course : ‘Management of Water Resources for Urban and Agricultural Use’, CINADCO, January 19th- February 16th, 2000, Shefayim, Israel.
- Visiting Researcher : Kansas State University, Department of Geography, July-December, 2001, Manhattan, Kansas, U.S.A.,.

Projects

- Determination of Potential and Actual Erosion Risk by using Satellite Data, Project No: TUJJB-TUMAHAP-01-06, Sponsored by National Government and Turkish Geodesy and Geophysic Association (TUJJB).2006-2008
- Increasing Environmental Awareness in the Region of Adapazari, Promotion of the Civil Society Dialogue between European Union and Turkey. 2008-2009
- Project of Hibrid Bus, TEMSA-Sakarya University, Sponsored by Government, 2008-2009.
- Preparation of Strategic Environmental Plan for Sakarya City, East Marmara Development Agency, 2010-2011
- Determination of Water Quality and Sediment on Sapanca Lake Watershed, Project No: 2012-01-04-016, Sponsered by Sakarya University, 2012-2014.
- Physical, Human and Economic Geographic Conditions of Sakarya City, Sakarya University Foundation, 2017-2018
- If There is Water and There is Future, WWF Turkey, 2015-2018
- Green Building and Ecologic Cities for Mitigation of Global Warming, Sakarya City, East Marmara Development Agency, 2019.
- Youth Policies for Mitigation the Effects of Climate Change, 2020

Master Thesis Advisory:

- Ezgi Açıkgöz, “A Study on Determining of Rain Erosion Index and Soil Protection Methods at the Adapazarı Model”, June 2002.
- Yasemin Damar, “Using of Petrochemical Industry Wastes that Contained Sulphuric Acid for Reclamation of Calcereous Soil”, June 2002.
- Ogün Baştürk “Identification Pollution of Sakarya River by Using Geographical Information System”, September 2006.
- Fatma Alış “Ohsas 18001 Health & Safety Standard in Sustainable Development”, May 2007.
- Serap Özer, “Environmental Management Systems: Application of ISO 14000”, May 2007.
- Miray Başar Macit, “Modelling of industrial emission distribution by using geographic information system”, 2010.
- Merve Çolak, “Determination of air pollution related to traffic on plants by using geographic information system”, 2012
- Sreng, R., “Carbon Footprint on Otomativ Industry “, 2016.

- Özgür Bak., “Effects on Climate Change of Emission Related to Textile Industry”, 2019.
- Zeynep Özdamar, “Transferring in to Ecological City for Sustainability”, 2020
- Merve Balta, “Reduction of Industrial Carbon Footprint and Energy Efficiency”, 2020.

Publications :

- Gümrükçüoğlu, M., ‘The Effect of Cloud Types on the Climate and on Remote Sensing Systems in the Troposphere’, First Eurasian Symposium on Space Science and Technologies, Gebze, İstanbul, Turkey, October 1993.
- Gümrükçüoğlu, M., ‘The Role of Atmosphere in Remote Sensing Systems Which Using for Sensing of Ground’, Symposium of II. Remote Sensing and Application of Turkey, Proceeding book, pp. 290-300, Bursa, Turkey, May 16-22, 1994.
- Gümrükçüoğlu, M., ‘The Effects of Altitude on Climate Parameters in Turkey’, Turkey National Geodesy-Geophysics Society and Turkey National Photogrammetry-Remote Sensing Society Kongres., Proceeding book, pp. 707-716, Ankara , Turkey, May 1-5,1995.
- Gümrükçüoğlu, M., ‘Investigation of the Topographic Effects on the Precipitation Distribution Over Turkey by Satellite Data’, IEEE Geoscience and Remote Sensing Society, IGARSS’95, Proceeding book, pp 371-373. , Floransa, İtaly, July10-14,1995..
- Gümrükçüoğlu, M., ‘Relationship Between Amount of Precipitation and Geographic Structure in Southeast Anatolian Region’, I. Engineering Kongress, Proceeding book, pp 160-167,Urfa , Turkey, May 29-June1 1996.
- Gümrükçüoğlu, M., ‘Importance of Climate in Geography Education’, II. National Education Symposium’, Marmara University, , İstanbul, Turkey, September18-20,1996.
- Gümrükçüoğlu, M., ‘A Study on Relationship Between Urbanization and Temperature in Istanbul City’, Symposium on Urban and Ecology in Environmental Protection, İstanbul, Turkey, April 28-29,1998.
- Gümrükçüoğlu, M., Oz, N., ‘Industrial Pollution of Sakarya River in Turkey’, EEE-2, 2nd International Symposium on Energy, Environment & Economics, Kazan (Russia), 7-10 September 1998.
- Oz, N., Gümrükçüoğlu, M., ‘Noise Pollution of Adapazarı City in Turkey’, EEE-2, 2nd International Symposium on Energy, Environment & Economics, Kazan (Russia), 7-10 September 1998.
- Gümrükçüoğlu, M., Yüksel, F., ‘Wrong Landuse on Agricultural Area in Sakarya’ Symposium on Environmental Pollution in Turkey II, Gebze, Turkey, November 18-19,1999.
- Gümrükçüoğlu, M., Yüksel, F., ‘The Problem of Wrong Aim Using in Agricultural Area with GAP Project on Southeastern Anatolian Region’, 3rd. GAP Engineering Conference, Sanliurfa, Turkey, May 24-26, 2000.

- Gümrükçüoğlu, M., Yüksel, F., ‘ Erosion Problem in Agricultural Area on Sakarya City’, 2000 GAP-Environment Congress, Sanliurfa, Turkey, October 16-18, 2000.
- Gümrükçüoğlu, M., Yüksel, F., ‘Effects of Urbanization in Using Other Aims of Agricultural Lands on Sakarya City’, 2nd International Symposium on New Technologies for Environmental and Agro-Applications, Tekirdag, Turkey, October 18-20, 2000.
- Gümrükçüoğlu, M., Ileri, R., Sumer., Alosman, M., ‘ Environmental Impact Assessment about August 17, 1999 Earthquake in Sakarya’ Journal of Sakarya University Science Institute, 1-7 pp., November 2000.
- Gümrükçüoğlu, M., ‘Erosion on Turkey: Reason, conditions, Solutions’, AAG Regional Annual Meeting, Omaha, U.S.A, September 27-29, 2001
- Gümrükçüoğlu, M., Damar, Y., ‘Relationship Between Erosion Problem with Topography and Vegetation in Sakarya City on Turkey’, Third Balkan Conference, Sofia, Bulgaria, October, 2001.
- Açıkgöz, Ezgi., Gümrükçüoğlu, M., ‘A Study on Determining of Rain Erosion Index and Soil Protection Methods at the Adapazarı Model’ Journal of Sakarya University Science Institute, pp.55-59, September 2002.
- Gümrükçüoğlu, M., ‘Using of Wastewater in Agricultural Irrigation’ Symposium of Protection and Management of Soil and Water Resource in Watershed, Antakya, Turkey, September 18-20, 2002.
- Gümrükçüoğlu, M., ‘Geographic Information Systems’, Sakarya Üniversitesi , Science Institute Journal, pp.67-72, March 2003.
- Gümrükçüoğlu, M, Açıkgöz, E., ‘The Determination of Rainfall Erosion Index in Adapazarı’, The International School Seminar-Environmental Protection, Rostov-on-Don State Building University, pp.28-32, Russia, September 2-5, 2003.
- Gümrükçüoğlu, M., Demirel, D., “Sustainable Development and Sustainable Biodiversity”, V. National Ecology and Environment Congress”, Bolu, Turkey, October, 5-8, 2004.
- Gümrükçüoğlu, M., “Turkey Surface Water Database Project”, International GIS Days, Fatih University, Istanbul, 6-8 October 2004.
- Gümrükçüoğlu, M., Gür, B.N., “Erosion; Effects, Reasons and Results in Geyve Watershed on Turkey”, Agroenvironment 2006, Gent, Belgium, 4-7 Eylül 2006.
- Gümrükçüoğlu, M., Baştürk, O., “Determination of Pollution in Sakarya River by Using Geographical Information Systems”, CBS’2007 Congress, Trabzon, Turkey, November 2007.
- Gümrükçüoğlu, M., Soylu, S., “Monitoring of transport sourced urban air pollution by using GIS”, 5th. International Conference on Geographic Information Systems (ICGIS-2008), İstanbul, Turkey, July 2008.
- Soylu, S., Gümrükçüoğlu, M., Şentürk, G., Bal, A., “Examination Of Urban Transport Characteristics And Its Emissions – Adapazarı Case Study”, The 17th Transport and Air Pollution symposium and the 3rd Environment and Transport Symposium, Toulouse, France, June 2-4, 2008.

- Uludağ, O., Saraç, M., Gümrükçüoğlu, M., “Optimization in Waste Logistic for Energy Saving”, International Waste to Energy Symposium-IWES 2, Istanbul, November 12-13 2009.
- Gümrükçüoğlu, M., Alosman, M., Ediz, G., Damar, Y., “The Use of Sulphuric Acid Containing Wastes for the Amendment of Calcareous Soil”, Ozean Journal of Applied Sciences 2 (3), ISSN 1943-2429, 2009. (online)
- Soylu, S., Gümrükçüoğlu, M., Bal, A., Şentürk, G., Aydınlar, B., Examination of urban transport characteristics and its emissions - Adapazarı case study, (Poster no: 064) ETTAP-09 17th Transport and Air Pollution Symposium - 3rd Environment and Transport Symposium - June 2-4, 2009
- Gümrükçüoğlu, M., Alosman, M., Ediz, G., Damar, Y., “The Use of Sulphuric Acid Containing Wastes for the Amendment of Calcareous Soil”, Ozean Journal of Applied Sciences, Vol.2, No.3, ISSN 1943-2429, 2009, (online).
- Doğan, E., Gümrükçüoğlu, M., Sandalcı, M., Opan, M., "Modelling of Evaporation from the Reservoir of Yuvacik Dam Using Adaptive Neuro Fuzzy Inference Systems", Engineering Applications of Artificial Intelligence, September 2010, Vol.23, No.6, p. 961-967.
- Gümrükçüoğlu, M., Şahin, S., Alosman, M., “Desalinization of Saline Soils: An Experimental Study”, Global Journal of Engineering and Technology, Vol.3, No.2, 309-315, 2010.
- Gümrükçüoğlu, M., Goodin., D., Martin, C., “Landuse Change In Upper Kansas River Floodplain: Following The 1993 Flood”, Natural Hazards, 2010, Vol.55, No.2, p.467-479. (DOI 10.1007/s11069-010-9540-7).
- Gümrükçüoğlu, M., “Urban Air Pollution Monitoring By Using Geographic Information Systems: A Case Study From Sakarya, Turkey”, Carpathian Journal of Earth and Environmental Sciences, February 2011, Vol.6, No.2, p.73-84
- Başar Macit, M., Gümrükçüoğlu, M., “Determination of Industrial Sulfur dioxide Emissions and Mapping by Ggeographic Information System”, Polish Journal of Environmental Studies, 2012, Vol.21, No.3, p.549-558.
- Gümrükçüoğlu, M., Determination of Carbon Footprint For Urban and Municipal on Adapazar, Turkey, Journal of Environment and Human, Pub.Date (Web): 2014, Vol.1, No.2, pp.25-31.
- Gümrükçüoğlu, M., Boysan, F., Çolak, M., Determination Air Pollution in Plants from Transport and Display with Geographic Information Systems, Aegean Analytical Chemistry Days, October 2014, Chios, Greece, Abstract book P-37
- Köklü Rabia, Dogan Emrah, Gümrükçüoğlu Yıgıt Mahnaz, Eren Beytullah, Sengörür, Bülent, Sönmez Osman, Temiz Temel, Tümay Seda (2015). Evaluating Water Quality Classes And Trophic Level For Lake Sapanca Basin. International Conference on Engineering and Natural Science, 496-503.
- Gümrükçüoğlu Yıgıt Mahnaz (2016). Urbanization Effect On Urban Heat Island A Case Study Sakarya. International Journal of Current Advanced Research, 5(2), 608-614.

- Çolak Merve, Gümrükçüoğlu Yiğit Mahnaz, Boysan Füsün, Baysal Erkan (2016). Determination and mapping of cadmium accumulation in plant leaves on the highway roadside Turkey. Archives of Environmental Protection, 42(3), 11-16.,
- Gümrükçüoğlu Yiğit Mahnaz, Cerit Deniz Ozan, Yasar Fatih (2016). Carbon Footprint for Integrated Solid Waste Plant. International Conference on Green Technologies and Energy Efficiency, 41-44.
- Sreng Ratha, Gümrükçüoğlu Yiğit Mahnaz (2017). Carbon footprint studies on Esentepe Campus of Sakarya University, Turkey in 2015. Sakarya University Journal of Science, 21(5), 1095-1099.
- Gümrükçüoğlu Yiğit Mahnaz, Dogan Emrah, Köklü Rabia (2017). Land use Change Related to Sand and Gravel Mining Effects on Sakarya River. Dicle University Journal of Engineering, 8(1), 25-32.
- Gümrükçüoğlu Yiğit Mahnaz (2018). Urbanization and Climate Change, International Symposium of Urbanization and Environmental Problems, 1, 73-81.
- Gümrükçüoğlu Yiğit Mahnaz, Seneren Merve (2018). Green Building with Reduced Carbon Footprint Against Global Natural Hazards and Disaster Management, 1(2), 803-808.
- Gümrükçüoğlu Yiğit Mahnaz, Sahin Seda, Isleyen Gülcan (2019). Towards to Ecological Cities from Ordinary Cities: The Case Study of Sakarya city. International Conference on Science and Technology, Engineering Science and Technology, ICONST'2019.

Lecture Notes:

Gümrükçüoğlu, M., "Remote Sensing and Geographic Information Systems", Sakarya Kitapevi, ISBN 975-8644-58-0, Sakarya, 2006.

Commission Membership

Clean Air Commission of Sakarya City
 City Commission of Sakarya Local Wetland
 Sakarya City Soil Commission

Invited and keynote speaker

- Israel: Mysterious Oasis, Sakarya University, April 2000.
- Climate Change, The Society of Protection of Nature Center, İstanbul, March 2001
- TEMA: Erosion and Projects, Sakarya University, April 2001
- Turkey: A Country, A City and Research Projects, Kansas State University, USA, November, 2001
- Combating of Erosion and Importance of Nature, Turkish Land Forces Logistics Command, Sakarya, Turkey, March 2003.
- Soil Erosion, Sakarya University, Sakarya, Turkey, November, 25, 2002.
- Geographic Information System, Sakarya University, Turkey, November 27, 2002.
- Scarcity of Water, Panel, International Water Day, Turkey, March 22, 2004

- Sustainable Development and Sustainable Life, Takanichi Company, Sakarya, Turkey, March 20,2004.
- Environmental Problems, World Environment Day, Arifiye Municipality, Sakarya, Turkey, June15, 2004.
- Environmental Science and Waste Control, Panel, TOYOTA Fabric, Sakarya, Turkey, June 17, 2004.
- Sustainable Nature for Our Future, Panel, Adapazarı Municipality, World Environment Day, Sakarya, Turkey, June 5, 2005.
- Global Warming, Seminar, Sakarya University, March 14, 2006.
- Environmental Information, Seminar, Adapazarı Metropolitan Municipality Education Centers, July 7, 2006.
- Sustainable Life for Our Future, Conference, Turkish Land Forces Logistics Command, 1. Maintenance Command, Sakarya, October 31, 2006.
- Sustainable Life, Conference, Adapazarı Enka Highschool, November 22, 2006.
- Global Climate Change, Conference, East Mediterranean University , North Cyprus Turkish Republic, April 27, 2007.
- “Global Warming and Effects on Turkey, World Environment Day”, Adapazarı Municipality, June 5, 2007.
- “Environmental Effects of Thermal power Station”, Kaynarca, Sakarya, May 20, 2009.
- “Global Warming”, Sakarya University, April 27, 2010.
- “Effects of Education for Environment”, Sakarya Municipality Organization for World Environment Day, Sakarya, June,2010.
- “Renewable Energy”, Young Academy Project, April 21, 2011
- “Environment and Recycle”, Bosh Fabric, Bursa, October10, 2011.
- “Electronic wastes”, Panel, Sakarya, October, 2012.
- “Green Buildings for Urban Sustainability”, June 2018.
- “Water Scarcity and Desertification on Turkey”, March 2021

Memberships:

- TEMA (Turkish Foundation for Combating Soil Erosion- NGO) : Sakarya City Representative and Boarding member
- TURMEPA : member
- Greenpeace : member