



TAGEM
R&D AND INNOVATION

WESTERN MEDITERRANEAN AGRICULTURAL
RESEARCH INSTITUTE/ ANTALYA

Dr. M. Yağmur POLAT, Ph.D. Agricultural Engineer (M.Sc.)

EDUCATION

- Ph.D.** University of Ankara
Graduate School of Natural and Applied Sciences,
Department of Agricultural Machinery and
Technologies Engineering
2021
- M.Sc.** University of Ankara,
Graduate School of Natural and Applied Sciences,
Department of Agricultural Machinery
2004
- Bachelor's Degree** University of Ankara,
Faculty of Agriculture
Department of Agricultural Machinery
2002
- FOREIGN LANGUAGE** English, YDS 82.5

CAREER

- 2011- Engineer, Toprak Gübre ve Su Kaynakları
Merkez Araştırma Enstitüsü Müdürlüğü,
ANKARA
- 2007-2011 Engineer, Tarım İl Müdürlüğü, İSTANBUL
- 2006-2007 Engineer, TİGEM, KONYA

ABOUT ME

He was born in Adana in 1979.

He graduated from Ankara University
Faculty of Agriculture in 2002.

He achieved his M.Sc degree in Ankara
University, Institute of Natural and
Applied Sciences, Department of
Agricultural Machinery in 2004.

He achieved his Ph.D. degree in Ankara
University, Institute of Natural and
Applied Sciences, Department of
Agricultural Machinery and
Technologies Engineering in 2021.

CONTACT

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■ **PROJECTS**

■ **Projects Conducted**

1. Associate researcher. Investigation of the Relationship between Soil Moisture and Precipitation Index (API) in Some Physical Properties of Soil (TAGEM).
2. Associate researcher. Dissemination of Agricultural Innovations Project: Providing Yield Increase with Water Harvesting Technique in Ankara Conditions. (TAGEM- EYYDB - Ankara Provincial Directorate of Agriculture and Forestry).

■ **Ongoing Projects**

1. Project Leader. Investigation of the Possibility of Detection of RUSLE Cover Management Factor (C) in the Agricultural Areas and Rangelands by Unmanned Aerial Vehicle (TAGEM).
2. Associate Researcher. Effects of Plastic Mulch and Organic Material Use in Micro-Catchment Water Harvesting Techniques on Greenhouse Gas Emission and Soil Moisture in Ankara Conditions (TAGEM).
3. Associate Researcher. Determination and Monitoring of Agricultural Drought Sensitivity in Ankara Wheat Plots and Development of Drought Resistant Management Policies (TAGEM).
4. Associate Researcher. Determining the Effects of Climate Change on Water Consumption of Corn, Cotton and Alfalfa Crops: The Case of Lower Gediz Basin (TAGEM).
5. Associate Researcher. Determination of Some Greenhouse Gas Emissions in Different Driving and Alternating Systems in Central Anatolian Conditions (TAGEM).
6. Associate Researcher. Project for Evaluation of Agricultural Producers' Resilience to Climate Change in Ankara (TAGEM).



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▪ **PUBLICATIONS**

▪ **ULUSLARARASI MAKALELER BİLDİRİLER**

▪ **Makaleler Articles Published in International Journals**

1. **Polat, M.Y. , 2020.** A Low-Cost Microcontroller Based Air Temperature, Humidity and Pressure Datalogger System Design for Agriculture. YYU Journal of Agricultural Science (Yüzüncü Yıl Üniversitesi Tarım Bilimleri Dergisi), 30(1).
2. **Polat, M.Y. , Beyaz, A., Çilingir, İ., 2020.** Development of a Low-Cost pH Meter for Liquid Chemical Fertilizers. Turkish Journal of Agriculture - Food Science and Technology, 8(4).

▪ **International Papers, Seminars, etc.**

1. **Polat, M.Y. , 2019.** A Microcontroller Based Air Pressure, Humidity and Temperature Datalogger System Design for Agriculture. 5th International Eurasian Congress on 'Natural Nutrition, Healthy Life & Sport' 02-06 October 2019, Ankara, TURKEY, PROCEEDINGS BOOK Vol: I.

▪ **NATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in National Journals**

1. **Polat, M.Y. , 2018.** Sprayer Drift and Effects On Pesticide Pollution in Soil. Turkey Union of Chambers of Agriculture, Farmer and Village World Magazine, 402.

▪ **International Papers, Seminars, etc.**

1. **Polat, M.Y. , 2016.** Precision Agriculture Studies of the General Directorate of Agricultural Research and Policies. Precision Agriculture Technologies Workshop (Presentation), Tokat, TURKEY



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▪ **OTHER PUBLICATIONS**

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

1. **Polat, M.Y. , 2021.** Development of a System for Measuring Droplet Contact Angles in Agricultural Spraying. Ph.D. Thesis, University of Ankara Graduate School of Natural and Applied Sciences
2. **Polat, M.Y. , 2004.** Geographic Information Systems and Their Practices in Agriculture. Masters' Term Project, University of Ankara Graduate School of Natural and Applied Sciences

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

1. Turkish Agricultural Engineers Association, Member
2. UAV Class1 Commercial Pilot Certificate, Directorate General of Civil Aviation, Ankara, 2019
3. Microprocessors and Micro Controllers (PIC Programming) Training (340 hours), İstanbul, 2009
4. FAO Climate Change Entry Training, Ankara, 2010
5. Protection of Agricultural Products, İstanbul, 2008
6. III. International Agricultural Mechanization and Information Technology Course, İzmir, 2016
7. Advanced Training of "ARCGIS Desktop" GIS Program, Ankara, 2018
8. FAO Aquacrop Software, İzmir, 2015
9. GPS Usage in Agriculture and Agricultural Machinery, Ankara, 2010
10. Public Internal Auditor Training Program (A1), Ankara, 2015
11. Practical Methods in A.M. Fungal Research, Ankara, 2018
12. Kaizen Continuous Improvement, Ankara, 2018
13. EFQM Excellence Model, Ankara, 2018
14. Problem Solving Techniques, Ankara, 2018
15. Official Correspondence Rules, Ankara, 2018
16. KALDER Competent Leadership Training, Ankara, 2017