

CURRICULUM VITAE

Somayyeh Razzaghi, PhD

Department of Soil Science and Plant Nutrition

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EDUCATION

- Post Ph.D. Soil Science and Plant Nutrition (2016-2017)**
Dept. of Soil Science and Plant Nutrition, Cukurova University, Adana, Turkey.
Dissertation title: *‘Evaluating and mapping carbon management and soil quality of the Seyhan River Basin in Turkey.* GPA: AA
- Post Ph.D. Soil Science and Plant Nutrition (2015-2016)**
Remote Sensing and GIS sub-division, Cukurova University, Adana, Turkey.
Dissertation title: *‘Investigation of Different Mycorrhizae Species and Nitrogen Dose Applications on Carbon Release-Sequestration in Sour Orang Seedlings Under Greenhouse and Field Conditions.* GPA: AA
- Ph.D. Soil Science and Plant Nutrition, 2010-2014**
Department of Soil Science and Plant Nutrition, Cukurova University, Adana, Turkey. Dissertation title: *‘The Mineralogical and Micromorphological Properties of Root Zone Soils of Red Pine and Oak in Göksu Catchment.* GPA: 3.78/4.00
- MS Soil Science and Plant Nutrition, 2007-2009**
Department of Soil Science and Plant Nutrition, Karaj University, Karaj, Iran.
Thesis title: *‘Effect of water deficit on grain yield and nutrient uptake of wheat cultivars.* GPA: 17.57/20.00
- BS Soil Science and Plant Nutrition, 2001-2004**
Department of Soil Science and Plant Nutrition Urmia University, Urmia, Iran.

PROFESSIONAL EXPERIENCE

- 2015-2018** Working as a volunteer researcher in a TUBITEK 1003 project number: 1140945 entitled “Research on Determination of Biyo- ethanol Production Potential of Different Sweet Sorghum (*Sorghum bicolor* var. *saccharatum* (L.) Mohlenbr.) Genotypes in Çukurova and GAP Regions.”, Project Manager: Dr. Celal Yücel,

Applied Science Institute, Dept. of Soil Science and Plant Nutrition, University of Şırnak, Turkey. Responsibilities are:

- Soil sampling before planting and post-harvest
- Prepare soil samples for analyses
- Analyze N, C, and C/N contents
- Plant sampling (5 plants from each parcel)
- Prepare plant samples for analyses
- Measuring the root height and diameter
- Mineral element analysis of plant materials

2016 Working as a post-doctoral researcher in a TUBITEK project number: 2216 Research Fellowship Program for International Researchers entitled “Evaluating and mapping carbon management and soil quality of the Seyhan River Basin in Turkey”, Applied Science Institute, Remote Sensing and GIS sub-division University of Cukurova, Adana, Turkey. Responsibilities are:

- Soil sampling under a canopy of the forest and agriculture covers
- Prepare soil samples for analysis.
- Analyze active, passive, and intermediate carbon
- Carbon sequestration modeling
- Derivation of soil quality index
- Validation of soil quality index
- Data analysis and interpretation
- Mapping of carbon management and soil quality indices
- Write progress and annual project reports
- Present research results at national scientific meetings.
- Publish papers on present research in the international journals

2015 Working as a post-doctoral researcher in a TUBITEK project (project number: 114O448) entitled “Investigation of Different Mycorrhizae Species and Nitrogen Dose Applications on Carbon Release-Sequestration in Sour Orang Seedlings Under Greenhouse and Field Conditions”, Dept. of Soil Science and Plant Nutrition, University of Cukurova, Adana, Turkey. Responsibilities are:

- Preparing the soil for the greenhouse experiment
- Design everything in the greenhouse for the experiment
- Prepare all fertilizer and especially nitrogen doses for application
- Irrigation of the seedling every day
- Measuring the shoot height and diameter every month
- Separating the shoot and roots after harvesting
- Separating the rhizosphere and unrhizosphere soil in soil sampling
- Cleaning the roots and shoots and put them in the oven for

analyzing

- Determine micro and macronutrient and Carbon content in the root, shoot, and soil samples
- Separate soil different aggregate fractions for structural stability and Carbon content analysis by wet sieving method
- Determine structure stability and mean weight diameter in different aggregate fractions
- Supervise and participate in measuring CO₂ release from soil in field conditions
- Supervise and participate in field/lab data collection.
- Organize and analyze data using different statistical tools/software.
- Write progress and annual project reports
- Present research results at national scientific meetings.

2013

Working as a researcher (graduate student assistant) in a TÜBİTAK project (project number: 110Y120) entitled “Effect of anthroscape on carbon management”, Dept. of Soil Science and Plant Nutrition, University of Cukurova, Adana, Turkey.

- Total carbon/organic carbon
- Total nitrogen
- Aggregate size fractions and stability
- Supervise and participate soil sample and field/lab data collection
- Biomass carbon (NPP) and biomass analysis
- Strategic plan and schedule field/lab work
- Organize and analyze data using different statistical tools/software
- Write progress and annual project reports
- Present research results at national scientific meetings.

2013 (Summer)

Employed as a researcher in the “Adaptation Scenarios of Italian Agriculture to Climate Change- Agroscevari”, Research Centre of Agrobiolology and Pedology, **Florence, Italy**

- Soil Porosity analysis
 - Interpreting the results obtained from image analysis (by Image Pro-Plus software) of soil thin sections
- Soil Structure analysis
 - By characterizing macro porosity in all its aspects
- Soil Aggregates Stability analysis
 - By wet sieving method
- Soil Organic Carbon analysis in different size fractions of aggregates
 - By CN elemental analyzer
- Soil Total Nitrogen analysis in different size fractions of aggregates
 - By CN elemental analyzer
- Soil Texture analysis
 - By using the sedigraph (according to the new original procedure developed in the Research Centre of Agrobiolology and Pedology of Florence
- Soil water retention analysis at field capacity and wilting point

- By pressure plate extractor
- Effectively analyze all obtained results using different statistical tools/software
- Effectively present results at International Scientific Congress

Supervising Engineer of wheat **2004 - 2005**

Agricultural Engineering Center, Urmia, Iran

- Effectively organized State level training programs/field days for farmers on identification and management of wheat

Senior Research Fellow **2003 - 2004**

Agriculture Research center of west Azerbaijan. Urmia, Iran

- Efficiently worked in team research center lab/field team in different physical and, chemical analyses of plant, soil and water samples

TEACHING EXPERIENCE

Teaching:

2024 Soil Quality. Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.

2024 Soil Management. Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.

2024 Soil Mineralogy. Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.

2024 Geology and Geomorphology. Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.

2024 Land Management. Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey

2024 Soil Survey and Mapping. Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.

2024 The Soils of Turkey. Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.

2024 Soil Genesis. Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.

- 2024 Vocational Practice.** Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.
- 2023 Soil Quality.** Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.
- 2023 Soil Management.** Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.
- 2023 Soil Mineralogy.** Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.
- 2023 Geology and Geomorphology.** Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.
- 2023 Soil Survey and Mapping.** Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.
- 2023 The Soils of Turkey.** Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.
- 2023 Soil Genesis.** Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.
- 2023 Vocational Practice.** Erciyes University, Agricultural Faculty, Department of Soil Science and Plant Nutrition, Kayseri, Turkey.
- 2018 Soil Science and Fertilizers.** Dicle University, Diyarbakir Vocational School of Agriculture, Department of Plant and Animal Production, 21280- Sur- Diyarbakir, Designed and led laboratory exercises for the Seed program (50 students).
- 2018 Soil Science and Fertilizers.** Dicle University, Diyarbakir Vocational School of Agriculture, Department of Plant and Animal Production, 21280- Sur- Diyarbakir, Designed and led laboratory exercises for the organic agriculture program (41 students).
- 2018 Soil Science and Fertilizers.** Dicle University, Diyarbakir Vocational School of Agriculture, Department of Plant and Animal Production, 21280- Sur- Diyarbakir, Designed and led laboratory exercises for the horticulture program (46 students).
- 2018 Organic Fertilizers.** Dicle University, Diyarbakir Vocational School of Agriculture, Department of Plant and Animal Production, 21280- Sur- Diyarbakir, Designed and led laboratory exercises for the organic agriculture program (27 students).

- 2018 Irrigation Techniques.** Dicle University, Diyarbakir Vocational School of Agriculture, Department of Plant and Animal Production, 21280- Sur- Diyarbakir, Designed and led laboratory exercises for the horticulture program (22 students).
- 2018 Irrigation Techniques.** Dicle University, Diyarbakir Vocational School of Agriculture, Department of Plant and Animal Production, 21280- Sur- Diyarbakir, Designed and led laboratory exercises for the organic agriculture program (22 students).
- 2018 Irrigation Techniques.** Dicle University, Diyarbakir Vocational School of Agriculture, Department of Plant and Animal Production, 21280- Sur- Diyarbakir, Designed and led laboratory exercises for the Seed program (28 students).
- 2018 Soil Science and Fertilizers.** Dicle University, Diyarbakir Vocational School of Agriculture, Department of Plant and Animal Production, 21280- Sur- Diyarbakir, Designed and led laboratory exercises (40 students).
- 2014 General Soil Science** Agriculture Research center of west Azerbaijan. Urmia, Iran. Designed and led laboratory exercises (25 students).
- 2011 Soil Physics Analysis Methods.** The University of Cukurova, Department of Soil Science. Designed and led laboratory exercises (25 students).
- 2009 Soil Science Analysis Methods.** The University of Payam Nur, Urmia, Iran. Designed and led laboratory exercises (25 students).
- 2009 Sociology of Agriculture.** The University of Payam Nur, Urmia, Iran... Led weekly student discussion sessions, and designed biweekly quizzes. Graded student assignments and quarter-long projects (56 students).
- 2008 General Soil Science.** The University of Payam Nur, Urmia, Iran, Organized class projects and laboratory exercises, and guided students in the interpretation of results, scientific literature, and lab report writing. (50 students).
- 2008 Soil Science Analysis Methods.** The University of Payam Nur, Urmia, Iran. Designed and led laboratory exercises. Graded student assignments, exams, and quarter-long projects. (25 students).
- 2008 Soil and Water Management.** The University of Payam Nur, Urmia, Iran. Organized weekly laboratory exercises, quizzes, and student discussion sessions. Graded laboratory exercises (50 students).
- 2007 Soil Science Analysis Methods.** The University of Payam Nur, Urmia, Iran. Designed and led laboratory exercises (25 students).

PROFESSIONAL TRAINING

- 1992-2000** English Language in International Language Center, Urmia, Iran.
- 2002** Computer skills.
- 2004** Planting and harvesting of wheat in Agriculture Research Center, Miandoab, Iran.
- 2013** Soil Physical analysis in Research Centre of Agrobiology and Pedology, Florence, Italy
- 2016** Soil CO₂ emission analysis from the soil in the University of Cukurova, Adana, Turkey.
- 2017** Soil Climate-smart organic and ecological farming systems and their impact on soil health and agro-ecosystem services in Soin de la Terre Les Crêts 71250 Château, France.
- 2017** GIS for desktop, ESRI, University of Bilkent, Ankara, Turkey.
- 2017** International workshop of drip irrigation and fertigation, University of Dicle, Turkey.
- 2022** 2nd International and 15th National Congress on Agricultural Structures and Irrigation 20 – 23 May 2022-Diyarbakır (In organization committee)

PUBLICATIONS

Akça. E., Kapur. S., **Razzaghi. S.** (2014). Sustainable land management in Turkey. Land Issues in the Mediterranean Countries. Watch Letter. 28 April.

Somayyeh Razzaghi, Mohammad Rezaei (2015). Effect of water deficit on grain yield, and Fe, Zn, Mn and Cu uptake of wheat cultivars. Journal of Pharmaceutical Biology. e-ISSN - 2249-7560. Vol 5. Issue3 . pp 113-116.

Mohammad Rezaei, **Somayyeh Razzaghi** (2015). Effect of drought stress on grain yield and P, K, Ca and Mg uptake of wheat cultivars. Journal of Science Agriculture. Vol 5. Issue 6. e ISSN 2277 – 3290. pp 414-417.

Reza Sokouti, **Somaieh Razagi** (2015). Erodibility and loss of marly derived soils. Eurasian J Soil Sci, 4 (4) 279 - 286.

Reaz Sokouti Oskoe, Mohammad Hossein Mahdian, **Somayyeh Razzagi** (2015). Feasibility of Recovering Soil Nutrients through Flood Water Spreading. ECOPERSIA. 3 (3), 1089-1097.

Razzaghi, S., Oskouei, R. S. and K. R. Islam (2016). Evaluate Soil Quality and Pasture Biomass Yield. Relationship in the Semi-Arid Regions of Western Azerbaijan, Iran. *International Journal of Agriculture and Environmental Research (IJAER)*. ISSN: 2455-6939. Volume: 02, Issue: 04. p 664-68.

Razzaghi Somayyeh, Nadia Vignozzi, and Selim Kapur (2017). "Mineralogical and micromorphological characteristics of red pine and oak root zone soils in southern Turkey." *Turkish Journal of Agriculture and Forestry* (2017): 41. 233-241. Doi: 10.3906/tar-1702-67

Somayyeh Razzaghi, Selim Kapur, Rafiq K Islam, Mohammad Rezaei, Adel Valizadeh, Alessandra Lagomarsino. (2021). Soil aggregate Protected Carbon and Nitrogen Stoichiometry in Soils Under Red Pine and Oak Forests. *Fresenius Environmental Bulletin*. Volume 30– No. 10. ISSN: 1018-4619. Pp: 11047-11056.

Somayyeh Razzaghi, Khandakar Rafiq Islam, and Ibrahim Abdelmalik Mohamed Ahmed. (2022). Deforestation impacts soil organic carbon and nitrogen pools and carbon lability under Mediterranean climates. *Journal of Soils and Sediments*. <https://doi.org/10.1007/s11368-022-03244-6>. **Q1**- ISSN 1614-7480

Sima Fatanatvash; Iraj Bernousi; Mohammad Rezaie; Osman Sonmez; **Somayyeh Razzaghi**; Hossein Abdi (2024). Selection of superior bread wheat genotypes based on grain yield, protein, iron and zinc contents under normal irrigation and terminal drought stress conditions. *Ecological Genetics and Genomics*. 31 (2024)100230. p 1-8. <https://doi.org/10.1016/j.egg.2024.100230>

Somayyeh Razzaghi (2024). Physiological responses of wheat cultivars to anti-transpiration compounds and drought stress ameliorators under water deficient condition. *Plant Science Today* ISSN 2348-1900 (online). <https://doi.org/10.14719/pst.3266>

Submitted/Work in progress:

S. Razzaghi (2024) Evaluating and mapping carbon management and soil quality of the Seyhan River Basin in Turkey.

S. Razzaghi (2024) Mineralogical and micromorphological characteristics of forest tree root zone soils in the Seyhan River Basin of Turkey

S. Razzaghi (2024) Empowering Agriculture in the Face of Climate Change with Smart Solutions, Springer nature (Book Chapter) (Submitted)

BOOK CHAPTER

- 2016** Gonul Aydın, Mehmet Ali Cullu, Sabit Ersahin, Erhan Akca, Emrah Erdogan, Levent Atatanır, Alper Yorulmaz, Ahmet Cilek, Merve Ersoy, **Somayyeh Rezzaghi**, Selim Kapur, Rattan Lal (2016). Turkey: Mapping Soil Carbon Stocks. Encyclopedia of Soil Science, CRC Press, Third Edition, Pages 1412–1415. DOI: 10.1081/E-ESS3-120052900.
- 2017** Ibrahim Ortaş, **Somayyeh Razzaghi**, and Mazhar Rafique (2016). Arbuscular Mycorrhizae: Effect of Rhizosphere and Relation with Carbon Nutrition. Plant-Microbe Interaction: An Approach to Sustainable Agriculture. Editors Devendra K. Choudhary Ajit Varma and Narendra Tuteja. ISBN 978-981-10-2853-3 ISBN 978-981-10-2854-0 (eBook). DOI 10.1007/978-981-10-2854-0. Springer Nature Singapore Pte Ltd. P 125- 153.
- 2017** Erhan Akça, Sevda Polat, **Somayyeh Razzaghi**, Nadia Vignozzi, Zülküf Kaya, Selim Kapur. (2017). Cambisols and leptosols. The soils of Turkey: Kapur, Selim, Akça, Erhan, Günal, Hikmet (Eds.) Cambisols and Leptosols. Springer Professional. pp 111-128.
- 2018** Selim Kapur, Erhan Akça, Claudio Zucca, Suha Berberoğlu, **Somayyeh Razzaghi** (2018) Anthroscapes: A Robust Basis for Mapping Land Quality and Sustainable Land Use Patterns. Eastern Mediterranean Port Cities a Study of Mersin, Turkey-From Antiquity to Modernity: (Eds.) Filiz Yenişehirlioğlu, Eyüp Özveren, Tülin Selvi Ünlü. Springer Professional. pp 63-78.
- 2021** **Somayyeh Razzaghi** (2021). Cover Crops Effects on Greenhouse Gas Emissions: Cover Crops and Sustainable Agriculture. Editors Rafiq Islam and Bradford Sherman. Taylor and Francis. CRC Press, Boca Raton, Florida, USA. pp 280-298.
- 2021** Nataliia Didenko, Vira Konovalova, **Somayyeh Razzaghi**, Alimata Bandaogo, Sougata Bardhan, and Alan Sundermeier (2021) Cover crops for pests and soil-borne disease control and insect diversity: Cover Crops and Sustainable Agriculture. Chapter 7: Editors Rafiq Islam and Bradford Sherman. Taylor and Francis. CRC Press, Boca Raton, Florida, USA. pp 80-98.
- 2022** **Somayyeh Razzaghi** (2022) Can soil organic matter be the robust indicator of soil health ability and soil quality? Chapter 11: Agricultural and environmental reports for sustainable future. Editors Korkmaz Bellitürk. Mehmet Fırat Baran and Ahmet Çelik. Iksad publishing house, Ankara, Florida, Türkiye. October / 2022. pp 243-308.
- 2022** **Somayyeh Razzaghi** (2022) The effect of soil organic carbon fractions on soil properties and crop yield. Chapter 3: Innovative Agricultural and Environmental Solutions. Editors Korkmaz Bellitürk. Mehmet Fırat Baran and Ahmet Çelik. Iksad publishing house, Ankara, Türkiye. December / 2022. Pp 99-197.

- 2023** **Somayyeh Razzaghi**, Ahmet Celik (2023) The Effect of Soil Organic Carbon Fractions On Climate Change Chapter 1: Latest Studies and Developments in Agriculture and Environment. Editors Ahmet ÇELİK, Zubair ASLAM, Korkmaz BELLİTÜRK, Ali AHMAD A, Zain MUSHTAQ. Iksad publishing house, Ankara, Türkiye. October / 2023.pp 3-36
- 2024** **Somayyeh Razzaghi**, Fatma Nur Kılıç (2024) Leveraging Artificial Intelligence to Revolutionize Soil Health Management Chapter 5: Soil Health and Last Agricultural Developments. Editors Ahmet ÇELİK, Korkmaz BELLİTÜRK, Mehmet Fırat BARAN. Iksad publishing house, Ankara, Türkiye. September/ 2024. pp 89-112
- 2024** **Somayyeh Razzaghi** (2024) Algae and seaweed fertilizers (Alg ve yosun gübreleri) Chapter: Organic Fertilizers: The Foundation of Sustainability (Organik gübreler: sürdürülebilirliğin temeli). Editors Çağdaş Akpınar. Academician Publishing House, Ankara, Türkiye. October / 2024. pp 143-182

SCIENTIFIC PRESENTATIONS and PROCEEDINGS and PUBLISHED ABSTRACTS:

- 2023** **Somayyeh Razzaghi** (2023). Nitrogen Consumption Effect on the Correlation Between Grain Yield and Nutrient Uptake in Wheat Under Irrigation Cessation Conditions. 5th World Conference on Sustainable Life Sciences, WOCOLS 2023. Cappadocia, Turkey 07-10. p 82-90 (Oral).
- 2023** **Somayyeh Razzaghi**, Mohammad Rezaei (2023). The impact of foliar nutrient application on the grain yield and quality of bread wheat cultivars under water deficient conditions. International Workshop on Sustainability of Agricultural Water Management and Digitalization” dedicated 50th Anniversary of Dicle University 02-06 October 2023, Diyarbakir, Turkiye. p56 (Oral).
- 2023** **Somayyeh Razzaghi**, Mohammad Rezaei (2023). Assessment of Foliar Application Effects on Yield Components, Grain Yield, and Nutrient Uptake in Bread Wheat Genotypes under Soil Salinity Stress Conditions. International Workshop on Sustainability of Agricultural Water Management and Digitalization” dedicated 50th Anniversary of Dicle University 02-06 October 2023, Diyarbakir, Turkiye. p 57 (Oral).
- 2023** **Somayyeh Razzaghi**, Mohammad Rezaei, Fatma Nur Kılıç (2023). The impact of antitranspirants on grain yield and photosynthetic characteristics of two wheat cultivars during water deficit stress. 6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023). Paper ID:92. October 11-13, 2023 / Ankara, Turkiye. p 94 (Oral).

- 2022** **Somayyeh Razzaghi**, Mohammad Rezaei (2022). Effect of Yellow Rust Disease on Leaf Chlorophyll Content and Yield of Bread Wheat Cultivars II-International Conference on Global Practice of Multidisciplinary Scientific Studies July 26-28, 2022 / Batumi, Georgia. (Oral).
- 2022** Zina Mohammad Sarhan, Waleed Khalid Ahmed, **Somayyeh Razzaghi**, Shimal Younis Abdul- Hadi (2022). Evaluation biocontrol of *Trichoderma spp.* Against Marcophomina Phaseolina on sunflower 3-5 March, Istanbul Gedik University and Rimar academy V. International Scientific Congress of Pure, Applied and technological sciences. Istanbul / Turkey. (Oral).pp 226-237-ISBN: **978-605-73553-5-5**- DOI:10.47832/MinarCongress5-20
- 2021** **Somayyeh Razzaghi** (2021). Soil Organic Matter – The Robust Indicator of Soil Quality. 3rd International Cukurova Agriculture And Veterinary Congress 9-10 October 2021- Adana / Turkey. ISBN: 978-625-7464-28-4-pp9.https://www.ziraatkongresi.org/_files/ugd/614b1f_837523d0577c46e08b7a7dc4ad7f042d.pdf (Oral).
- 2018** **Somayyeh Razzaghi** and Mohammad Rezaei (2018). Response of Source and Physiological Reservoir of Bread Wheat Cultivars to Nitrogen Splitting Under Water Stress Condition. International engineering and natural sciences conference (IENSEC 2018), Diyarbakir- Turkey, November 14 - 17. ID 81 (Oral).
- 2017** Ibrahim Ortas and **Somayyeh Razzaghi** (2017). Mycorrhizal Inoculation and Phosphorus Fertilizer Application Effect on tomato, eggplant, green and bell pepper Plant Yield and Nutrient Uptake under field conditions. ICOM 9 – Prague, Czech Republic July 30 - August 4. Pp 226 (Poster).
- 2016** **Somayyeh Razzaghi**, Nadia Vignozzi, Mohammad Rezaei, Khandekar Rafiq Islam, Erhan Akça, Selim Kapur. 2016. Soil Aggregate Protected Carbon and Nitrogen Distribution under Red Pine and Oak Natural Forests in the Mediterranean Region of Turkey. *International soil science congress (Eurosoil)*. 16-21 October 2016. WOW, Convention Center. İstanbul-Turkey. Abstract book. Page 350. Poster presentation.
- 2016** Mazhar Rafique, **Somayyeh Razzaghi**, Ibrahim Ortaş. 2016. Relationship between root development and carbon fixation in biochar and mycorrhizal application. *International soil science congress (Eurosoil)*. 16-21 October 2016. WOW, Convention Center. İstanbul-Turkey. Abstract book. Page 404. Poster presentation.
- 2016** Mohammad Rezaei, **Somayyeh Razzaghi**. 2016. Effect of Timing Nitrogen Application on Macronutrient Uptake, and Grain Yield of Wheat Genotypes under Water Deficit Condition. *International soil science congress (Eurosoil)*. 16-

21 October 2016. WOW, Convention Center. İstanbul-Turkey. Abstract book. Page 348. Poster presentation.

- 2016** Mohammad Rezaei, **Somayyeh Razzaghi**. 2016. Effect of Nitrogen Application and Drought Stress on Grain Yield and Magnesium, Iron and Zinc Uptake of Wheat Cultivars. *International soil science congress (Eurosoil)*. 16-21 October 2016. WOW, Convention Center. İstanbul-Turkey. Abstract book. Page 349. Poster presentation.
- 2016** Gönül Aydın, Mehmet Ali Çullu, Sabit Erşahin, Erhan Akça, Levent Atatanır, Alper Yorulmaz, Ahmet Çilek, Merve Ersoy, **Somayyeh Rezzaghi**, Selim Kapur, Rattan Lal. 2016. Mapping Soil Organic Carbon (SOC) Stocks in Turkey. *International soil science congress (Eurosoil)*. 16-21 October 2016. WOW, Convention Center. İstanbul-Turkey. Abstract book. Page 137. (Oral).
- 2016** Mazhar Rafique, Hassan Javed Chaudhary, Tariq Sultan, Ibrahim Ortas, **Somayyeh Razzaghi**. 2016. Interactive effect of bacteria and biochar on phosphorus uptake in maize (*Zea mays* L.). *International soil science congress (Eurosoil)*. 16-21 October 2016. WOW, Convention Center. İstanbul-Turkey. Abstract book. Page 154. (Oral).
- 2016** Ortaş, İ. İbrahim A.M. Ahmed, Hasan Akgöl, Mazhar Rafique, Alexandra Bykova, İlay Çevik, **Somayyeh Razzaghi**, Barış Bulutekin Feyzulla Öztürk ve Yusuf Cem Yücel. 2016. Bioçar ve Mikorizanın Tarımda Kullanımı ve Bitki Besin Elementi Alımı Üzerine Etkileri ((the effect of Biochar and Mycorrhiza in Agriculture on Plant Nutrient Uptake). 7. *Ulusal Biki Besleme ve Gübre Kongresi*. 12- 15 Ekim 2016. Ç.Ü. Adana. (Oral).
- 2016** **Somayyeh Razzaghi**, Mohammad Rezaei. 2016. Effect of Water Stress and Foliar Application of Chelated Zinc and Super Absorbent Material on Yield and Morphological Characteristics of Flax Plant. 7. *Ulusal Biki Besleme ve Gübre Kongresi*. 12- 15 Ekim 2016. Ç.Ü. Adana. ID: PS22 (Poster)
- 2016** **Somayyeh Razzaghi**, Mohammad Rezaei, Mazhar Rafique, Ibrahim Abdelmalik Mohamed Ahmed. 2016. Effect of Morphological and Physiological Traits on Grain Yield of Wheat Genotypes under Salinity Stress. 2. *National plant physiology congress (ii. Ulusal bitki fizyolojisi sempozyumu)*, 31 August -03 September 2016. Mersin-Turkey. Page 131. ID: P64(Poster).
- 2014** **Somayyeh Razzaghi**, Mohammad Rezaei. Effect of water deficit on grain yield and Fe, Zn, Mn, and Cu uptake of wheat cultivars. In: *9th 'International Soil Science Congress. The soul of soil civilization*. Page: 678. October 14-16, 2014, Antalya/Turkey. (Poster).

- 2014** Mohammad Rezaei, **Somayyeh Razzaghi**. Effect of drought stress on grain yield and P, K, Ca, and Mg uptake of wheat cultivars. In: *9th 'International Soil Science Congress. The soul of soil civilization* Page: 613. October 14-16, 2014, Antalya/Turkey. (Poster)
- 2014** Süha Berberoğlu, Erhan Akça, Mehmet Ali Çullu, Özden Görücü, Gönül Aydın, Rattan Lal, Sabit Erşahin, **Somayyeh Razzaghi**, M.Akif Erdogan, Merve Ersoy, Ahmet Çilek, Hasan Özcan, Yusuf Kurucu, Levent Atatanir, Alper Yorulmaz, Mustafa Sari, Ertuğrul Aksoy, Mehmet Arif Özyazici, Orhan Dengiz, Mehmet Ali Gürbüz, Ilker Kurşun, Süleyman Temel, Duygu Boyraz, Yusuf Işık, Sait Gezgin, Emine Günay, Selim Kapur. Carbon Response Units Approach in Land Management Planning: The Goksu River Basin Case Study. In: *Istanbul Carbon Summit. Carbon Management Technology and Trade*. Page: 53. April 3-5 2014. Istanbul/Turkey. (Oral)
- 2014** Gönül Aydın, Rattan Lal, Özden Görücü, Mehmet Ali Çullu, Süha Berberoğlu, Erhan Akça, Doğanay Tolunay, Merve Ersoy, **Somayyeh Razzaghi**, M.Akif Erdogan, Ahmet Çilek, Yusuf Kurucu, Levent Atatanir, Alper Yorulmaz, Sabit Erşahin, Hasan Özcan, Mustafa Sari, Ertuğrul Aksoy, Mehmet Arif Özyazici, Orhan Dengiz, Mehmet Ali Gürbüz, Ilker Kurşun, Süleyman Temel, Duygu Boyraz, Yusuf Işık, Sait Gezgin, Emine Günay, Selim Kapur (2014). Carbon Stocks in Soils of Turkey. In: *Istanbul Carbon Summit. Carbon Management Teknology and Trade*. Page: 54. April 3-5 2014. Istanbul/Turkey. (Oral)
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- 2013** Süha Berberoğlu; Erhan Akça, Nejat Erk, Mahir Fisunoğlu, Tamer Gök, Sevda Polat, Osman Polat, Mehmet Akif Erdoğan, Cenk Dönmez, **Somayyeh Razzaghi**, Sinan Fikret Erk, Selim Kapur. 2013. The keys of climate change: Carbon mapping. *Cukurova University. Adana. Turkey*. (Poster)
- 2012** Mohammad Rezaei. **Somayyeh Razzaghi**, Soleiman Mohammadi, Alireza Eivazi (2012). Introduction of new bread wheat genotypes to improve grain Mg, Zinc and Fe contents in water deficit conditions .*12th Iranian Crop Sciences Congress*. 4-6 September 2012. Karaj Branch. Islamic Azad University. Karaj/Iran. (Oral)
- 2012** Mohammad Rezaei, **Somayyeh Razzaghi**. 2012. "Micronutrients uptake and distribution by bread wheat genotypes under water deficit. In: *8th International*

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- 2011** **Somayyeh Razzaghi**, Mohammad Rezaei. Deficit Irrigation Effects on Nutrient Uptake in Bread Wheat. In: *12th national Soil Science Congress on "Soil Degradation and Sustainable Land Management"*. Abstract No: 183. September 3-5, 2011. -Tabriz/Iran. (Poster)
- 2011** Sariyev A.L, Tülün Y, S., Yusufova, M., **S. Razzaghi**, Akça, E., Gerayzade A.P. Determination of Unsaturated Hydraulic Conductivity at Field Conditions and Mathematical Modeling. In: *The 3rd Congress of Soil Scientists of Azerbaijan with the International participation*". October, 17-19th. P 54-56 2011, Baku/Azerbaijan. (Poster)

CONGRESS AND WORKSHOP ORGANIZING

- 2023** International Workshop on Sustainability of Agricultural Water Management and Digitalization” dedicated 50th Anniversary of Dicle University 02-06 October, 2023, Diyarbakir, Turkiye (**In organization committee**)
- 2022** 2nd International and 15th National Congress on Agricultural Structures and Irrigation 20 – 23 May 2022-Diyarbakır (**In organization committee**)
- 2022** II-International Conference on Global Practice of Multidisciplinary Scientific Studies July 26-28, 2022 / Batumi, Georgia (**In the scientific committee**)
- 2021** 3. International Congress of Agriculture Science 9 – 10 October 2021- Adana (**In the scientific committee**)
- 2017** International workshop of drip irrigation and fertigation, University of Dicle, Turkey.
- 2016** Soil CO₂ emission analysis from the soil in the University of Cukurova, Adana, Turkey.

SUPERVISOR

Title of M.S Thesis

Effect of Nitrogen fertilizer on wheat nutrient uptake under drought stress (Mahabad University)

Study of Micronutrient uptake in seed and leaves of different genotypes of wheat (Urmia University)

Study of Macronutrient uptake in seed and leaves of different genotypes of wheat (Urmia University)

RESEARCH/PROFESSIONAL SKILLS

- Extensive knowledge to work under laboratory, greenhouse, and field conditions
- Proficient in computer applications: MS Word, Excel, PowerPoint, MS Project, etc.
- Excellent communication skills and ability to interact across diverse scientific, professional, and cultural backgrounds
- Excellent leadership, organizational, and planning skills
- Ability to function effectively independently and in team environment