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**PERSONAL INFORMATION**

<b>Name/Surname</b>	<b>Elton Mammadov</b>
<b>Academic degree</b>	<b>PhD (Soil Science)</b>
<b>Nationality</b>	<b>Azerbaijani</b>
<b>Date of birth</b>	<b>02 September 1982</b>
<b>Phone</b>	<b>+16089494993; +994557877474</b>
<b>e-mail</b>	elton.eldaroglu@gmail.com elton.mammadov@agro.gov.az
<b>Research Gate profile</b>	<a href="https://www.researchgate.net/profile/Elton-Mammadov">https://www.researchgate.net/profile/Elton-Mammadov</a>
<b>Google Scholar profile</b>	<a href="https://scholar.google.com/citations?user=SsN71IQAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=SsN71IQAAAAJ&amp;hl=en</a>



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**EDUCATION / STUDY**

<b>1999 – 2003</b>	Baku State University, Baku, Azerbaijan. <i>Faculty:</i> Geography / Academic diploma- Honorary (Bachelor's degree)
<b>2003 – 2005</b>	Baku State University, Baku, Azerbaijan. <i>Faculty:</i> Geography / Academic diploma-Honorary (Master's degree) <i>Master Thesis:</i> Soil and agroclimatic resources of cultivating of winter wheat in the Kura-Arakh plain, Azerbaijan.
<b>2005 – 2008</b>	Azerbaijan National Academy of Sciences / Institute of Soil Science and Agrochemistry, Baku, Azerbaijan <i>PhD Thesis:</i> Evaluating anthropogenic impact on the soils of xerophilic forest belt in the Lesser Caucasus (within Azerbaijan) / (PhD degree)
<b>2014-2015</b>	Postdoctoral research at Adam Mickiewicz University in Poznan, Poland supported by the „State Program on the study of Azerbaijani youth in abroad in 2007-2015 years “, Ministry of Education. <i>Research topic:</i> Study of spatial variability of soils using GIS and RS in the mountainous areas of Azerbaijan (Study Case: mid-mountainous belt of the Lesser Caucasus)
<b>2015-2016</b>	Postdoctoral research at Martin Luther University in Halle, Germany supported by the „Merit Scholarship Program for High Technology “, The Islamic Development Bank <i>Research topic:</i> Study of spatial variability of soils using GIS and RS in the mountainous areas of Azerbaijan (Study Case: foothill belt of the Lesser Caucasus)
<b>2017</b>	Postdoctoral research at Martin Luther University in Halle, Germany supported by the German Academic Exchange Service (DAAD). <i>Research topic:</i> Digital soil class mapping using high resolution digital elevation model and multispectral satellite data
<b>2019-2020</b>	Postdoctoral research at Adam Mickiewicz University in Poznan, Poland supported by the National Academy of Sciences. <i>Research topic:</i> Visible and Near infrared and mid-infrared Spectroscopic modelling of mountainous soils

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## RESEARCH INTERESTS:

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- ✓ Soil science; Soil and water conservation; Sustainable Land Management
  - ✓ Soil remote and proximal sensing; GIS; Soil spectroscopy
  - ✓ Digital soil mapping; Precision agriculture; UAV data application in agriculture
  - ✓ Modelling; Statistics; Image processing; Data analysis
  - ✓ Soil/Landscape modelling
  - ✓ Soil management / pollution
  - ✓ Hydrological and hydraulic modelling
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## ACTIVITIES

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Actively involved in different national and international activities (research and commercial projects, conferences, workshops, educational trainings, youth forums etc.). Recently, involved main activities are following:

- Flood modelling and sustainable land management in the Padarchol region, Azerbaijan. October 2020-March 2021, financed by Agrodairy LTD, Azerbaijan.
- International student workshop understanding the problems of inland waters: base study for the Caspian basin. 09-11 May 2018, Baku, Azerbaijan. (Lecturer)
- Study and modelling of soil salinization in Azerbaijan. Bilateral collaboration between South Korea and Azerbaijan, 2016-2019
- 10th EARSeL Conference on Imaging Spectroscopy, 2017, 19-21 April, University of Zurich, Zurich, Switzerland
- European Society for Soil Conservation (ESSC 2016), Conference 15-18 June 2016, Cluj-Napoca, Romania
- Training course on "Global Soil Information Facilities" (GSiF) Spring School, 12-16 May 2014, the Netherlands
- Socio-Economic Survey in Shaki-Zakhatala region, Azerbaijan. Financed by UNDP of UNO. January-September 2014
- "Toxic Site Identification Program. Azerbaijan Polluted Sites Database". A joint effort between Blacksmith Institute, United Nations Industrial Development Organization, World Bank, European Commission, Asian Development Bank, and Green Cross Switzerland, 2012-2014 (Site investigator)
- "Environmental impact assessment of the National Parks in Azerbaijan and preparing sustainable development concept paper" (Study case: Goygol National Park) financed by Science Development Foundation under the President of the Republic of Azerbaijan, Baku, June 2012 – May 2013
- "Soil, Land Use/Land Capability research in Gadabay (gold mine) region" by AMEC Ltd (Earth & Environmental, London), August 2012- January 2013
- "3D laser scanning of Siemens legacy in Gadabay district", Azerbaijan/Gadabay, October 2011
- "Forest survey in Azerbaijan" financed by Michael Succow Foundation, Germany, Greifswald, June 2011
- "The second turn building of Shamkir machine channel" implemented by The Ministry of Ecology and Natural Resources of Azerbaijan Republic, October 2010 (Environmental expert).
- Training course on "The Use of Satellite Data for Climate Application organized by The European Organization for the Exploitation of Meteorological Satellites" (EUMETSAT), Germany Weather Service (DWD) and Hydrological and Meteorological Service of Croatia (DHMZ) in Zagreb, November 2007, Croatia.

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## WORK EXPERIENCE

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<b>Dates (from – to)</b>	April 2022 – presently
<b>Name and address of employer</b>	<b>Ministry of Agriculture</b>
<b>Type of business or sector</b>	State Organization
<b>Department</b>	Fruit and vegetable growing

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<b>Dates (from – to)</b>	May 2009 – April 2022
<b>Name and address of employer</b>	<b>Institute of Soil Science and Agrochemistry of Azerbaijan National Academy of Sciences</b>
<b>Type of business or sector</b>	State Organisation
<b>Occupation or position held</b>	Leading researcher (full-time)

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<b>Dates (from – to)</b>	September 2013 – 2014
<b>Name and address of employer</b>	<b>Khazar University</b>
<b>Type of business or sector</b>	Private University
<b>Occupation or position held</b>	Lecturer (part-time)

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<b>Dates (from – to)</b>	September 2012 – 2014
<b>Name and address of employer</b>	<b>Baku State University</b>
<b>Type of business or sector</b>	State University
<b>Occupation or position held</b>	Lecturer (part-time)

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<b>Dates (from – to)</b>	September 2010 – 2012
<b>Name and address of employer</b>	<b>Azerbaijan Pedagogical University</b>
<b>Type of business or sector</b>	State University
<b>Occupation or position held</b>	Lecturer (part-time)

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## PERSONAL SKILLS

- ✓ Highly interested in different disciplines of soil and geographical sciences
  - ✓ Ability to travel anywhere in Azerbaijan, as well as internationally.
  - ✓ Strong organizational and communication skills
  - ✓ Ability to work with international team of expatriates
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## LANGUAGE SKILLS

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	Reading skills	Writing skills	Verbal skills
<b>Azerbaijani (native)</b>	Excellent	Excellent	Excellent
<b>Russian</b>	Excellent	Good	Good
<b>English</b>	Excellent	Good	Good
<b>Turkish</b>	Excellent	Good	Excellent

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## TECHNICAL SKILLS

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- R Statistical Software (A range of R packages applied in soil studies and modelling)
  - Soil Water Assessment Tool (SWAT)
  - ArcGIS
  - QGIS
  - TUFLOW
  - TNT mips
  - SPSS
  - UnscramblerX
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## PUBLICATIONS

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- Mammadov E., Denk M., Riedel F., Kaźmierowski C., Lewinska K., Łukowiak R., Grzebisz W., Mamedov A., Glaesser C. (2022). Determination of Mehlich 3 Extractable Elements with Visible and Near Infrared Spectroscopy in a Mountainous Agricultural Land, the Caucasus Mountains. *Land* 11, 363, 1-24. <https://doi.org/10.3390/land11030363>
  - Mammadov E., Nowosad J., Glaesser C. (2021). Estimation and mapping of surface soil properties in the Caucasus Mountains, Azerbaijan using high-resolution remote sensing data. <https://doi.org/10.1016/j.geodrs.2021.e00411>
  - Mammadov E., Michael D., Riedel F., Lewinska K., Kaźmierowski C., Glaesser C. 2020. Visible and near-infrared reflectance spectroscopy for assessment of soil properties in the Caucasus Mountains, Azerbaijan. *Journal of Communications in Soil Science and Plant Analysis*. <https://doi.org/10.1080/00103624.2020.1820027>
  - Ukalska-Jaruga A., Lewińska K., Mammadov E., Karczewska A., Smreczak B., Medyńska-Jurasze A. 2020. Residues of Persistent Organic Pollutants (POPs) in Agricultural Soils Adjacent to Historical Sources of Their Storage and Distribution: The Case Study of Azerbaijan. *Molecules* 25, 1815. <https://doi.org/10.3390/molecules25081815>
  - Han J., Mammadov Z., Minhee K., Mammadov E., Lee S., Park J., Mammadov G., Guliyev A., Ro H-M. 2021. Spatial distribution of salinity and heavy metals in surface soils on the Mugan Plain, the Republic of Azerbaijan. 2021, *Environmental Monitoring and Assessment*, 93:95. <https://doi.org/10.1007/s10661-021-08877-7>
  - Ismayilov A., Feyziyev F., Mammadov E., Babayev M. 2020. Soil Organic Carbon Prediction by Vis-NIR Spectroscopy: Case Study the Kur-Aras Plain, Azerbaijan, *Communications in Soil Science and Plant Analysis*. 1532-2416. <https://doi:10.1080/00103624.2020.1729367>
  - Mammadov E. 2019. Study of the impact of land use change on physical and chemical properties of soils in the mid-mountainous belt of the Lesser Caucasus (in Azerb.). *Journal of Soil Science and Agrochemistry*, Vol. 24, N 1-2, pp.136-141.
  - Mammadov E., Galandarov C. 2019. Model relating soil pH measurements in water and potassium-chloride solutions: Case study The Lesser Caucasus (in Azerb.). *Annals of Baku State University*, N2, Vol.4., pp.83-89.
  - Mammadov E., Glaesser C., Guliyev A., Denk M., Riedel F. (Poster) Use of FTIR reflectance spectroscopy to predict basic soil physical and chemical properties: A case study in the Caucasus, Azerbaijan, 10th EARSel SIG Imaging Spectroscopy Conference, Zurich, Switzerland, April 2017.
  - Kazmierowski C., Crolewicz S., Vukowiak R., Piekarczyk J., Mammadov E., Grzebicz W., Wyczalek I. (Poster) Using of the diffuse reflectance and WorldView-2 satellite image data to predict plant available forms of nutrients in soil surface horizon, European Society for Soil Conservation, Conference Cluj-Napoca, Romania.
  - Rubinov E., Mammadov E., Khalilov B., Najafov R. (Poster) Emergence of precision agriculture in Azerbaijan. EUROASIA2018 GIS congress, 4-7 September 2018, Baku, Azerbaijan.
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- Mammadov E., Sadig M. 2018. Organic carbon content of the soils in the Lesser Caucasus Mountain: Relating Walkley Black method to loss of ignition method, and modelling relations to elevation (in Azerb.). Annals of the Institute of Husbandry, Vol. XXIX, 443-449.
  - Mammadov E. 2013. Heavy metal content and its spatial variability in the soils of the area of the gold mine in Gadabay region, Azerbaijan, International conference environmental changes conservation of plant diversity (ISBN 978-9952-8180-4-8), 21-23 April, Baku, Azerbaijan.
  - Mammadov E. 2013. Mapping of soil erosion/risk in Gadabay gold mine area. Collection of articles of Institute of Soil Science and Agrochemistry ANAS (ISSN 2222-7882) №2, Vol.21, Baku, "Elm", p.411-415.
  - Mammadov E. Babayev M., Aslanova R. 2009. Anthropogenic evolution of mountain-forest soils in the Lesser Caucasus (in Russian). Annals of International Agrarian Sciences, Vol.7, №3, Tbilisi, 2009, p.43-47.
  - Mammadov E. 2009. An Impact of anthropogenic factor on soils in the foothill zone of the Lesser Caucasus. The News of National Acad. of Sciences, Series of Biological Sciences, Vol-64, №1-2, p.63-69.
  - Mammadov E., Babayev M. 2009, An impact assessment of long-term usage of mountainous soils under potato cultivation (in Azerbaijan). Reports of Azerbaijan National Academy of Sciences, N2, Vol- LXV, p.155-160.

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#### **MEMBERSHIPS/SUPERVISIONS**

- ✓ Member of the Interview Commission of the State Examination Centre of the Republic of Azerbaijan
- ✓ Member of Azerbaijan Soil Scientists Society
- ✓ Member of Azerbaijan Geography Society
- ✓ Member of Russian Soil Scientists Society
- ✓ As a Consultant in MS and PhD studies

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#### **OTHER INTERESTS**

ecotourism, archaeology, sport

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