

Satuk Bugrahan SARI

Middle East Technical University (METU)

Research and Teaching Assistant

Birth Date/Place	01.01.1998 / Erzurum, Turkey
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Education

2020 – 2022 (expected)	Middle East Technical University Department of Civil Engineering M.Sc. CGPA: 4.00 / 4.00 M.Sc. Thesis Topic: Post liquefaction shear strength of soils M.Sc. Thesis Advisor: Prof. Kemal Onder Cetin
2015 - 2020	Middle East Technical University Department of Civil Engineering B.Sc. CGPA: 3.98 / 4.00 - 1 st Ranking Graduate

Experiences

2020 - Present	Middle East Technical University Department of Civil Engineering - Research Assistant
2020 - Present	Middle East Technical University Department of Civil Engineering - Teaching Assistant Assisted Courses: <i>CE363 Soil Mechanics</i> - Duties: Carried out soil mechanics lab tests, regulated Office hours with students, graded lab reports and homeworks, prepared course handouts <i>CE366 Foundation Engineering I</i> - Duties: Carried out recitation and office hours with students, graded homeworks, prepared course handouts <i>CE464 Ground Improvement</i> - Duties: Carried out office hours with students, graded homeworks, prepared course handouts, conducted Settle3, Slide2 and RS2 tutorials <i>CE468 Geotechnical Design</i> - Duties: Carried out recitation and office hours with students, graded homeworks, prepared course handouts, conducted Slide2 tutorials
2020	American Society of Civil Engineers (ASCE) – GeoInstitute Annual GeoCongress, Geoprediction Competition Finalist - <i>Minneapolis, Minnesota / USA</i>
2019 - 2020	LARSA Inc. Full Time Structural Software Engineer at METU Teknokent - <i>Ankara / Turkey</i>
2019 - 2020	METU Civil Engineering Geomechanics and Technology (GeoMT) Research Group Member
2019	Glocal Age 2020 Student Exchange Program Participant Global Disaster Risk Reduction and Recovery Program, Earthquakes and Tsunamis Niigata University & Fukushima University - <i>Niigata & Fukushima / Japan</i>
2019	Summer Internship 2, Site Civil Engineer Renaissance Holding (REC International) Construction, Investment, Industry & Trade Supreme Court Service Building Construction - <i>Ankara / Turkey</i>
2018	Summer Internship 1, Site Civil Engineer ILGAZ Construction & Trade Inc. Industrial Plant with Prefabricated Reinforced Concrete Members - <i>Ankara / Turkey</i>

Academic Honors, Rewards and Successes

2020	Middle East Technical University 2020 University 3 rd Ranking Graduate 2020 Civil Engineering Department 1 st Ranking Graduate
2020	American Society of Civil Engineers (ASCE) – GeoInstitute Annual GeoCongress Geoprediction Competition 2 nd Rank Reward <i>Minneapolis, Minnesota / USA</i>
2016 - 2020	METU Civil Engineering Department 1 st Rank Reward in all 8 semesters
2016 - 2020	8 High Honor Certificates in all 8 semesters of undergraduate education
2015	Ranking in top 1% out of 2.1 million test-takers in nationwide university entrance exam

Publications/Presentations

2020	Sari, S. B., Durmaz, M. (2020). Predicting the location and depth of a failure surface of a landslide occurred in the USA. <i>ASCE GeoInstitute Geocongress, 2020, February 25-28, Minneapolis, Minnesota, USA.</i>
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Conferences, Symposiums and Workshops

2021 September	Soil Liquefaction and Mitigation Techniques, Chamber of Civil E. <i>Ankara / Turkey</i>
2020 February	ASCE GeoInstitute Annual GeoCongress, <i>Minneapolis, Minnesota / USA</i>
2019 November	Abstract Writing Seminar, METU Academic Writing Center, <i>Ankara / Turkey</i>
2019 October	5 th Izmir Wind Energy Symposium and Exhibiton, <i>Izmir / Turkey</i>
2019 July	Glocal Age 2020 Student Exchange Program, Global Disaster Risk Reduction and Recovery Program, Earthquakes and Tsunamis, <i>Niigata & Fukushima / Japan</i>
2019 February	CE Summit 2019 Career Workshop, IACES Local Committee, <i>Ankara / Turkey</i>
2017 February	HAVELSAN Cyber Security Winter School Program, <i>Ankara / Turkey</i>

Organization and Association Memberships

2019 November - Present	American Society of Civil Engineers (ASCE) Student Council Membership - https://www.geoinstitute.org
2019 November - Present	Turkish Society for Int. Soil Mechanics and Geotech. Eng. Community (ZMGM) Student Membership - https://www.zmgm.org.tr
2019 September – 2020 October	METU Civil Eng. Dept. Geomechanics and Technology (GeoMT) Research Group Research Member - http://geomt.ce.metu.edu.tr

Competencies and Skills

Computer	<i>General:</i>	<i>Geotechnical Programs:</i>
	Microsoft Office Programs	Rocscience: Settle3
	<i>Engineering Drawing Programs:</i>	Rocscience: Slide2
	AutoCAD	Rocscience: RS2
	<i>Structural Analysis Programs:</i>	Plaxis 2D
	SAP2000 and Section Designer	Plaxis 3D
	LARSA 4D and Section Composer	SeismoSignal
	LARSA 4D Analytic Object Modeler	
	<i>Construction Management Programs:</i>	<i>Coding and Software:</i>
	Autodesk: Navisworks	Microsoft Office Excel
Autodesk: Revit	Python	
Allplan	MATLAB	
MS Project	MathCAD	

Research Interests

Geotechnics and Geomechanics	Geotechnical earthquake engineering, soil liquefaction and mitigation Post-liquefaction shear strength, response and deformations of soils Seismic hazard analysis Seismic response of landfills Retaining structures, their asset management and seismic isolation Landslides, static and seismic slope stability In-situ and lab testing of static and dynamic properties of earth materials High-performance cut-off walls for levees in seismic regions Soil/structure interaction of bridge foundations
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Consulting Projects

2021 May	TEKFEN Engineering & GeoDestek Zemar Trade and Industry Inc. Geotechnical assessment and deep foundation system calculations of New Stack 7000 Unit, <i>Izmir / Turkey</i>
2021 April	State Railways of the Republic of Turkey (TCDD) & METU 3D finite elements modelling and geotechnical assessment of Ankara-Istanbul high-speed railway T26 tunnel, <i>Ankara / Turkey</i>
2021 February	YSE Construction Industry and Trade Inc. & METU Geotechnical assessment of Sabiha Gokcen Airport (SAW) 2 nd airstrip TEM access roads and tunnels, <i>Istanbul / Turkey</i>

Languages

Turkish	Native
English	Advanced
German	Intermediate
Chinese	Beginner

Hobbies

Sports	Professional licensed soccer and chess player Winter sports, swimming, tennis, table tennis and aikido
Art	Watching movies and plays at the cinema and theater

References

Prof. Kemal Onder Cetin	Middle East Technical University - <i>Ankara / Turkey</i> Civil Engineering Department - Geotechnical Engineering Division ocetin@metu.edu.tr / +90 312 210 24 18
Assoc. Prof. Nejan Huvaj	Middle East Technical University - <i>Ankara / Turkey</i> Civil Engineering Department - Geotechnical Engineering Division nejan@metu.edu.tr / +90 312 210 54 89
Prof. Zeynep Gulerce	Middle East Technical University - <i>Ankara / Turkey</i> Civil Engineering Department - Geotechnical Engineering Division zyilmaz@metu.edu.tr / +90 312 210 74 81
Prof. Ozgur Kurc	Middle East Technical University - <i>Ankara / Turkey</i> Civil Engineering Department - Structural Engineering Division kurc@metu.edu.tr / +90 312 210 24 47

Others

Driving Licence	Class B (Turkey standards)
Smoke	No use