

EDUCATION

Ph.D., 2013-2016, Civil & Environmental Engineering Department; Michigan State University (MSU), East Lansing, USA

M.Sc., 2009-2011, Civil & Environmental Engineering Department; Michigan State University (MSU), East Lansing, USA

B.Sc., 2002-2007, Civil Engineering with Construction Management Specialization, Middle East Technical University (METU), Ankara, Turkey

PROFESSIONAL EXPERIENCE/ TEACHING ACTIVITIES

Assistant Professor, University of West Florida 2018 to Present

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|---|---|
| * ETD2320 Computer Aided Design | * BCN4940 Internship/ Senior Project Design |
| * BCN2405 Statics and Strength of Materials | * BCN4720C Scheduling |
| * BCN3224 Materials and Methods | * BCN4990 Heavy Construction Equipment |
| * BCN4431 Structures I | * BCN4461 Structures 2 |
| * BCN 3561 Construction Mechanics 1 (HVAC) Heating, Cooling & Ventilation Systems | * BCN4564 Construction Mechanics 2 Electrical Systems |

Project Manager, Intertek-PSI, Detroit, MI 2016 to 2018

- Supervising geotechnical investigation teams for MDOT I-75 modernization project.
- Managing and organizing the coordination between surveying, drilling, traffic, & engineering teams.
- Providing technical assistance to project subcontractors.
- Collecting subsurface investigation data in the field and entering to the gINT software.
- Performing data analysis on the collected samples and preparing technical reports.
- Design shallow and pile foundations for the highway post and bridge piers using Plaxis, Geo-Slope, A-Pile & L-Pile software.
- Analyzing settlement of foundations using the data collected in the field and Settle3D software.
- Organizing and managing meetings within the company and third parties.
- Presenting the findings of the project to client.

Adjunct Faculty, Eastern Michigan University 2016-2018

- * CNST 202 Construction Materials (including laboratory sessions)
(Students were prepared to obtain ACI Concrete Testing Certification as a part of class)
- * CNST 303 Mechanical, Electrical and Equipment Systems
- * CNST 412 Fundamentals of Structural Engineering
- * CNST 436 Heavy Construction Means and Methods (Construction Machinery)

Graduate Research & Teaching Assistant, Michigan State University 2009-2011 & 2013-2016

(Please see Dr. Kocak's CV for detailed information about the projects and publications)

Project Engineer, DOT-FHWA & FDOT, Washington D.C/ Gainesville FL 2011-2013

- New Hampshire High Reclaimed Asphalt Pavement Project (NH1191)
- Montana Warm Mix Asphalt Project (MT1192)
- Maryland Warm Mix Asphalt Project (MD1193)
- Florida DOT APL (Accelerated Pavement Loading) Project, Gainesville Materials Office

Project Engineer, Shell Qatar, Doha & Ras-Laffan, Qatar 2008-2009

- Site Safety/OSHA Compliance 30hr Certified
- Provided presentations on construction site safety
- Involved in project bidding preparation
- Planned & scheduled the work progress for HDPE and GRVE pipe lines.
- Performed resource allocation, levelling and budget of the project by using Primavera software
- Prepared progressive payment schedules

Project Engineer, Strabag SE, Cluj-Napoca, Romania 2007-2008

- Supervised and assisted soil laboratory testing for classification, hydraulic conductivity, shear strength, consolidation, and compaction.
- Conducted soil exploration and testing (site and lab), and wrote soil reports for highway and foundation designs.
- Designed shallow and deep foundations for transmission line structures.

SELECTED RECENT PUBLICATIONS (LAST 2 YEARS)

1. **Kocak, S**, Kutay, ME. (2021) Effect of Devulcanized Rubber Modification on the Performance Grade, Fatigue Cracking Resistance and Rutting Resistance of Asphalt Binders. ASCE Journal of Materials in Civil Engineering. [https://doi.org/10.1061/\(ASCE\)MT.1943-5533.0003830](https://doi.org/10.1061/(ASCE)MT.1943-5533.0003830)
2. Amin, R.W., Sevil, H.E., **Kocak, S**, Francis III, G., Church, J., Hoover, P. (2020) The Spatial Analysis of the Malicious Uniform Resource Locators (URLs): 2016 Dataset Case Study. Journal of Information, <https://doi.org/10.3390/info12010002>
3. Amin, R.W., **Kocak, S**, Sevil, H.E., Peterson, P.G., Hamilton, J.T., Rivera, B., Barraco, T. (2020) A Spatio-Temporal Cluster Analysis of Structurally Deficient Bridges in the Contiguous U.S.A. Developments in Built Environments. <https://doi.org/10.1016/j.dibe.2020.100034>
4. **Kocak, S**, Kutay, ME. (2020) Fatigue Performance Assessment of Recycled Tire Rubber Modified Asphalt Mixtures Using Viscoelastic Continuum Damage Analysis and AASHTOWare Pavement ME Design. Construction and Building Materials. <https://doi.org/10.1016/j.conbuildmat.2020.118658>
5. Korkmaz, A, **Kocak, S**, et all. (2019). Effects of Elastic Modulus on Behavior of Polymer Coated Fiber Modified Short Concrete Beams. American Journal of Construction and Building Materials. <https://doi.org/10.11648/j.ajcbm.20190301.11>

SELECTED PROFESSIONAL PRESENTATIONS

1. Kocak, S. (2020) “Performance Assessment of Recycled Tire Rubber Modified Asphalt Mixtures Using Viscoelastic Continuum Damage Analysis and AASHTOWare Pavement ME Design.” Presented at 99th Annual Transportation Research Board Conference, Washington, D.C. January 12-16, 2020.
2. Kocak, S. (2019) “Effect of Devulcanized Rubber Modification on the Performance Grade, Fatigue Cracking Resistance and Rutting Resistance of Asphalt Binders”. Presented at International Airfield and Highway Pavements Conference, Chicago, IL, July 21-24, 2019.
3. Kocak, S. (2017). “Combined Effect of SBS/DVR/CR Modifications on Binder and Mixtures Performance”, Presented at 18th AMAP Conference, St. Petersburg, FL, February 9th, 2017.
4. Kocak, S. (2017). “Effect of Addition of Dry Crumb Rubber on the Performance of Terminal Blend Crumb Rubber Modified Asphalt Mixtures”, Presented at 96th Annual Transportation Research Board Conference, Washington, D.C., January 09-13, 2017.
5. Kocak, S (2016). “Combined Effect of SBS and De-vulcanized Rubber (DVR) Modification on Performance Grade and Fatigue Cracking Resistance of Asphalt Binder”, 8th RILEM Conference, Nantes, France, June 07-09, 2016.
6. Kocak, S. (2015) “Feasibility of Using Crumb Rubber Modifier in lieu of Grade Bumping for High Percent Reclaimed Asphalt Pavement (RAP) Mixtures in Michigan”, 94th Annual Transportation Research Board Conference, Washington, D.C., January 11-15, 2015.