

Umme Amina Mannan

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EDUCATION

PHD IN CIVIL ENGINEERING

University of New Mexico
Albuquerque, NM
May 2017
GPA 4.03 out of 4.00

MS IN CIVIL ENGINEERING

University of Akron
Akron, OH
August 2012
GPA 3.953 out of 4.00

BSC IN CIVIL ENGINEERING

Bangladesh University of Engineering
& Technology
Dhaka, Bangladesh
August 2012
GPA 3.64 out of 4.00

CERTIFICATIONS

ENGINEER INTERN (E.I.) | Ohio
Board of Registration for Professional
Engineers and Surveyors
May 2012 | OH

GRADUATE COURSEWORK

Foundation Engineering I • Soil
Improvement • Advance Soil Mechanics •
Applied Numerical Methods I •
Geographic Information Systems

LINKS

Google Scholar • LinkedIn

SKILLS

Pavement Software

AASHTOWare • WinJULEA • KENPAVE
• GIS • LTPP

Software

ABAQUS • ANSYS • STAAD • AutoCAD
• ArcGIS • SPSS • Microsoft Office • MS
Project • OriginLab • \LaTeX

Programming

Matlab • R

SERVICES

Reviewing Services

• Applied Rheology • Journal of Testing
and Evaluation • Transportation Research
Board

Arranged Workshops

• Introduction To Rheology with
Anton-Paar • Asphalt Binder Extraction
and Recovery (Rotavapor) for NMDOT
• DSR Testing for NMDOT

RESEARCH EXPERIENCE

ASPHALT BINDER LAB | University of New Mexico

2012–Present | Albuquerque, NM

- Conducted experiments on asphalt binders using RTFO, PAV, DSR, BBR and Rotational Viscometer
- Supervised and trained undergraduate, Masters and new PhD students
- Coordinated communication between professors and suppliers

PAVEMENT LAB | University of New Mexico

2012–Present | Albuquerque, NM

- HMA mix design and volumetric properties of mixture
- Dynamic Modulus Test, Low-Temperature Thermal Cracking Test, Four-point Bending Beam Test, Hamburg Wheel Tracking (HWT) Test, Moisture Induced Sensitivity Test (MIST).

CHEMICAL TESTING | University of New Mexico

2012–Present | Albuquerque, NM

- Experience on FTIR, GPC, DSC, TGA, SEM

ASPHALT BINDER LAB | University of Akron

2010–2012 | Akron, OH

- Conducted experiments on asphalt binders using RTFO, PAV, DSR, BBR and Rotational Viscometer
- Supervised and trained undergraduate and new Masters students

CHEMICAL TESTING | University of Akron

2010–2012 | Akron, OH

- Experience on FTIR, GPC, XRD

TEACHING EXPERIENCE

MECHANICS OF MATERIALS | Instructor

Spring 2015 | University of New Mexico, NM

SOIL MECHANICS LAB | Teaching Assistant

Spring 2012 | University of Akron, OH

SOLID MECHANICS | Teaching Assistant

Fall 2011 & Spring 2010 | University of Akron, OH

SOIL MECHANICS | Teaching Assistant

Fall 2010 | University of Akron, OH

AWARDS

2017	\$1,000	APANM Best Poster Award
2017	\$1,000	UNM Civil Engineering Scholarship
2016	\$2,000	APANM Asphalt Industry Scholarship
2016 & 2015	\$500	UNM Civil Engineering Travel Grant
2015	\$1,000	Elvidio V. Diniz, P.E. UNM Water Resources Scholarship, ASCE
2014	\$500	Student Research Grant (SRG), GPSA, UNM

PROFESSIONAL AFFILIATIONS

- University of New Mexico - Future Leaders in Pavement and Transportation (UNM-FLPT)
- Society of Women Engineers (SWE)
- New Mexico Section of American Society of Civil Engineers (ASCE)
- Engineers Without Borders UNM (EWB-UNM)
- American Society of Civil Engineers (ASCE)