

TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Mithil Mazumder Title: Asst. Professor of Instruction Email: m_m624@txstate.edu

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
Ph. D.	2019	Texas State University	Materials Science Engineering and Commercialization	Characterization of Crack Sealant Materials and Implementation Techniques
M. S.	2016	Texas State University	Technology Management-Construction Management	Performance Properties of Polymer Modified Asphalt (PMA) Binders Containing Wax Additives
B. S.	2012	National Institute of Technology (NIT), Durgapur, India	Civil Engineering	Effect of Skew Angle on the Behavior of an IRC Skew Bridge

C. University Experience

Position	University	Dates
Asst. Professor of Instruction	Texas State University	September 2024 - Present
Full-time Lecturer	Texas State University	September 2019 – August 2024
DTA/Teacher of Record	Texas State University	January 2017 – May 2019
Lecturer	World University of Bangladesh	June 2013 – July 2014

D. Relevant Professional Experience

Position	Entity	Dates
Laboratory Safety Officer	Texas State University	August 2015 – Present
Safety Intern	Guarri General Contractors, LLC	May 2018 – June 2018
Consultant Intern	LEA Associates of South Asia (LASA)	May 2011 – June 2011

E. Other Professional Credentials (licensure, certification, etc.)

Credential	Entity	Dates
LEED®AP BD+C	US Green Building Council (USGBC)	February 2020
Construction Documents Technologist (CDT®)	Construction Specifications Institute (CSI)	July 2021
OSHA Authorized Construction Trainer	OSHA #500 & 502 Course completed at Texas A&M Engineering Extension Service (TEEX)	August 2025
Specialist in Safety and Health (SSH)	The University of Texas at Arlington	July 2019
Designing Your Online Course	Quality Matters	January 2020

II. TEACHING

A. Teaching Honors and Awards

Spring 2024 awarded “**Favorite Professor**” from The Alfred H. Nolle Chapter of the Alpha Chi, National College Honor Society.

B. Courses Taught: (S – Spring, F – Fall)

Course Number	Name (At Texas State University)	Semester
CSM 3366	Soils and Foundation	S 2017
CSM 4364	Construction Project Management and Scheduling	F 2017, 2019 - Present
CSM 2160	Introduction to Construction Surveying and Site Layout	2018 - 2020
CSM 4380	Construction Safety	2019 - Present
CSM 3361	Commercial Building and Construction Systems	F 2023 - Present
CSM 4361	Construction Estimating	2019-2020, 2022 - Pres
CSM 4368	Sustainability and Lean Construction Practices	2020 - 2024
CSM 5368	Sustainable Construction	S 2021, S 2024, F 2025
CSM 5380	Construction Safety Management	2021 - Present
CSM 5363	Construction Project Delivery and Leadership	2022 - Present
TECH 5365	Industrial Project Management and Scheduling	S 2021, S 2024
TECH 4380	Industrial Safety	2018 - 2019
TECH 2190	Industrial Internship	2020 - Present

Course and average score	Sem.	Students	Instructor Rating (5.00 Scale)					
			Learning	Enthusiasm	Organization	Ind. Rapport	Exam	Assign.
CSM 4364	F 19	24	4.29	4.43	4.42	4.43	4.42	3.88
	F 20	25	4.34	4.24	4.34	4.67	4.42	4.18
	S 21	25	4.59	4.35	4.52	4.56	4.65	4.23
	F 21	26	4.54	4.56	4.48	4.68	4.61	4.17
	S 22	24	4.43	4.37	4.55	4.57	4.47	4.18
	F 22	28	4.54	4.26	4.32	4.55	4.54	4.38
	S 23	28	4.45	4.46	4.57	4.60	4.64	4.48
	F 24	29	4.23	3.80	4.14	4.32	4.36	3.89
	S 25	28	4.45	4.42	4.63	4.57	4.51	4.12
Avg 4.40			4.43	4.32	4.44	4.55	4.51	4.17
CSM 2160	F 19	28	4.26	4.27	4.18	4.23	4.22	4.02
	S 20	23	4.10	4.20	4.25	4.80	4.30	4.36
Avg 4.27			4.18	4.24	4.22	4.52	4.26	4.19
CSM 5368	S 24	19	4.56	4.31	4.38	4.49	4.56	4.42
	Su 25	8	4.53	4.57	4.50	4.14	4.37	4.14
Avg 4.41			4.55	4.44	4.44	4.32	4.47	4.28
TECH 5365	S 24	14	4.45	4.68	4.63	4.55	4.73	4.43
	S 25	27	4.55	4.55	4.53	4.73	4.54	4.35
Avg 4.56			4.50	4.62	4.58	4.64	4.64	4.39
CSM 4380	F 19	41	4.43	4.25	4.37	4.46	4.47	3.93
	S 20	37	4.68	4.43	4.43	4.57	4.46	4.36

	S 20	39	4.07	3.71	3.93	3.86	3.97	3.91
	F 20	40	4.13	4.04	4.13	4.28	4.13	4.09
	F 24	21	3.85	3.82	3.82	4.00	4.00	4.00
	Su 25	24	4.45	4.30	4.00	4.26	4.32	4.40
Avg	4.18		4.27	4.09	4.11	4.24	4.23	4.12
CSM 4361	F 19	34	4.12	3.96	4.13	4.17	4.11	3.55
	F 19	15	4.39	4.36	4.06	4.53	4.28	3.71
	S 20	24	4.50	5.00	4.88	4.50	4.60	3.50
	F 20	24	4.12	3.65	3.93	4.08	4.16	3.65
	F 21	24	3.99	3.79	3.78	4.31	4.15	3.82
	F 22	24	4.33	4.15	4.30	4.36	4.39	4.02
	S 23	24	4.38	4.54	4.49	4.62	4.63	4.24
	F 23	24	4.42	4.48	4.44	4.64	4.64	4.00
	F24	36	4.08	3.85	4.19	4.28	4.37	3.77
	S25	36	4.50	4.57	4.54	4.51	4.54	4.44
Avg	4.26		4.30	4.24	4.29	4.40	4.42	3.92
CSM 3361	F 23	36	4.36	3.96	4.46	4.35	4.56	4.07
	F24	21	4.45	4.43	4.58	4.63	4.51	4.25
Avg	4.38		4.41	4.20	4.52	4.49	4.54	4.16
CSM 4368	S 20	39	4.33	4.33	4.50	4.50	4.48	4.17
	F 20	39	4.42	4.24	4.33	4.48	4.43	4.14
	S 21	41	4.49	4.38	4.56	4.45	4.47	4.23
	F 21	32	4.43	4.41	4.58	4.60	4.54	4.25
	S 22	21	4.50	4.44	4.56	4.46	4.47	4.29
	F 22	37	4.32	4.43	4.48	4.51	4.43	4.23
	S 23	29	4.49	4.55	4.46	4.51	4.50	4.13
	F 23	34	4.46	4.60	4.64	4.73	4.68	4.27
	S 24	43	4.29	4.26	4.44	4.41	4.45	4.30
Avg	4.43		4.41	4.40	4.51	4.52	4.49	4.22
CSM 5363	F 21	30	4.28	4.14	4.36	4.50	4.31	4.38
	F 22	18	4.04	3.71	3.92	4.26	4.40	4.42
	F 24	31	4.51	4.32	4.46	4.47	4.50	4.65
	Su 25	10	4.50	4.50	4.50	4.66	4.45	4.57
Avg	4.37		4.33	4.17	4.31	4.47	4.42	4.51
CSM 5380	S 22	17	4.58	4.25	4.36	4.61	4.53	4.35
	S 23	14	3.97	4.07	4.04	4.29	4.08	4.00
	S 24	22	4.45	4.55	4.65	4.72	4.71	4.68
Avg	4.38		4.33	4.29	4.35	4.54	4.44	4.34
Total average of all courses: 4.36								

C. Graduate Thesis/Dissertations, Honors Theses, or Exit Committees (if supervisor, please indicate):

Committee Member (Dissertation - 2, Thesis - 4)

Rahmani, Fereshteh, Ph.D. in Materials Science, Engineering and Commercialization Program
Dissertation Title: Influence of Coarse Aggregate Composition on Concrete Pavement Performance and Microstructural Properties
(Fall 2025 – Present)

Yun, Jihyeon, Ph.D. in Materials Science, Engineering and Commercialization Program
Dissertation Title: Laboratory Evaluation of Storage for CRM Asphalt Binders
(Spring 2025)

Khanal, Rishab, MS in Construction Management

Thesis Title: An Evaluation of Concrete Properties of Rigid Pavements: Coefficient of Thermal Expansion and Abrasion Resistance.

(Summer 2025)

Vigneswaran, Shyaamkrishnan, MS in Construction Management

Thesis Title: Effect of CRM Particle Size on Storage Stability of Rubberized Binders

(Summer 2023)

Yun, Jihyeon, MS in Construction Management

Thesis Title: Laboratory Evaluation of Storage for CRM Asphalt Binders

(Summer 2022)

Hemmati, Navid, MS in Construction Management

Thesis Title: Evaluation of Petroleum Resin Effectiveness on Asphalt Binder Viscosity.

(Summer 2021)

D. Courses Prepared and Curriculum Development:

Courses prepared

CSM 4368 Sustainability and Lean Construction Practices

CSM 4380 Construction Safety

CSM 3361 Commercial Building and Construction Systems

CSM 4364 Construction Project Management and Scheduling

CSM 2160 Introduction to Construction Surveying and Site Layout

TECH 4380 Industrial Safety

CSM 5368 Sustainable Construction

CSM 5380 Construction Safety Management

CSM 5363 Construction Project Delivery and Leadership

TECH 5365 Industrial Project Management and Scheduling

Developed Syllabi and new course development

Undergraduate courses

CSM 4380 Construction Safety (Fall 2019)

- Department introduced the safety course for construction major students and given responsibility to develop the new syllabus
- Developed course description and outcomes
- Produced new curriculum and assignments

CSM 4368 Sustainability and Lean Construction Practices (Spring 2020)

- Earlier used to be “Environmentally Conscious Design and Construction” and new syllabus developed to include the lean construction and specific to sustainable construction practices
- Developed course description and outcomes
- Produced new curriculum and assignments

Graduate courses (Online and face to face)

TXST Online and face to face courses were introduced and developed as part of the new Master program in Construction Management

CSM 5368 Sustainable Construction (Spring 2021)

- Developed new syllabus
- Developed course contents
- Produced new curriculum and assignments

CSM 5380 Construction Safety Management (Summer 2021)

- Developed new syllabus
- Developed course contents
- Produced new curriculum and assignments

CSM 5363 Construction Project Delivery and Leadership (Fall 2021)

- Developed new syllabus
- Developed course contents
- Produced new curriculum and assignments

TXST Global Accelerated 8-week Online graduate course for MS in Construction Management

1. CSM 5363 Construction Project Delivery and Leadership (Summer 2024)

- Created course map and developed new syllabus
- Developed the full-build course contents with Online and Extended Programs designer
- Satisfied and approved by the Quality Matters as per their standard for the developed content
- Developed in Summer 2024 and offered in Fall 2024

2. CSM 5380 Construction Safety Management (Fall 2024)

- Created course map and developed new syllabus
- Developed the full-build course contents with Online and Extended Programs designer
- Satisfied and approved by the Quality Matters as per their standard for the developed content
- Developed in Fall 2024 and offered in Spring 2025

3. CSM 5368 Sustainable Construction (Summer 2025)

- Created course map and developed new syllabus
- Developed the full-build course contents with Online and Extended Programs designer
- Satisfied and approved by the Quality Matters as per their standard for the developed content
- Developed in Summer 2025 and offered in Fall 2025

E. Funded External Teaching Grants and Contracts:

G. Funded Internal Teaching Grants and Contracts:

H. Other

Teaching Professional Development Activities Attended:

Name of the Event	Location	Date
Designing Your Online Course	Quality Matters, Texas State University	January 17, 2020
ACCE accreditation Initial Team Member Training and Construction Management Teaching Workshop	Jacksonville, Florida	February 19-21, 2020
ACCE accreditation Advanced Team Member Training and Visiting Team Case Studies	Online	July 21, 2020
ACCE accreditation Advance Team Member Training	Online	July 19-20, 2021
Completed 30 hours of LEED AP BD+C continuing education and renewed the LEED AP BD+C credential	Online, US Green Building Council (USGBC)	November 25 – November 27, 2021
Conducted ACCE accreditation visit as a Member in Training (MIT) and learned the SLO evaluation process	Missouri State University	April 2-5, 2022
Completed 30 hours of LEED AP BD+C continuing education and renewed the LEED AP BD+C credential	Online, US Green Building Council (USGBC)	January 22 – February 1, 2024
Completed 24 hours of CDT continuing education and renewed the CDT credential	Online, Construction Specifications Institute (CSI)	June 2024
Become an AI Wizard: Unlock Generative Power for Content Creation and Student Engagement, AI EmpowerED Webinar	Texas Higher Education Coordinating Board (THECB)	October 30, 2024 3pm – 4pm
The AI Advantage: Engaging Students through Artificial Intelligence Tools	Faculty Development, Texas State University	November 5, 2024 10 am – 11 am
The Power of Play: Using Student-Centered Pedagogy & Play to Enhance Student Engagement, Connection, and Learning	Faculty Development, Texas State University	November 7, 2024 10am – 11.30am
Validating First-Generation College Students: Proactive Affirmation of Students	Faculty Development, Texas State University	November 7, 2024 3pm – 4.30pm
AI Dialogue Series, Session 3 Looking Forward: The Future of AI in Higher Education	Faculty Development, Texas State University	November 14, 2024 10am – 11am
PDF Accessibility in Online Courses	Faculty Development, Texas State University	January 24, 2025 11am – 12pm
Lunchtime Learning: Creating Custom Research Course Guides for your Classes	Library Lunchtime Learning faculty workshops	February 25, 2025

		12:30pm -1:30pm
Supporting Neurodivergent Students in the Classroom	Faculty Development, Texas State University	February 27, 2025 10am – 11am
12th Annual Award for Excellence in Online Teaching: Virtual Showcase	Online and Extended Programs, Texas State University	February 28, 2025 11am – 12:15 pm
Microsoft Teams: Getting Started	ITAC Customer Engagement Team	March 03, 2025 2pm – 3:30 pm
Lunchtime Learning: Open Educational Resources (OER)	Library Lunchtime Learning faculty workshops, Texas State University	March 04, 2025 12:30pm-1:20pm
Lunchtime Learning: AI Tools for Literature Reviews	Library Lunchtime Learning faculty workshops, Texas State University	March 18, 2025 12:30pm-1:20pm
AI in Teaching & Learning Symposium 2025	Division of Information Technology, Texas State University	March 27, 2025
Lunchtime Learning: Course Considerations Related to AI	Library Lunchtime Learning faculty workshops, Texas State University	April 08, 2025 12:00pm–1:00pm
Click Here for Success: Strategies for Asynchronous Teaching	Faculty Development, Texas State University	April 29, 2025, 3:00pm - 4:30pm
Course Contextualization: Strategies for Adapting Learning Activities to Support Students Across Majors	Faculty Development, Texas State University	April 30, 2025, 2:00pm - 3:00pm
UDOIT Right! Accessibility Tools in Canvas	Online and Extended Programs	June 27 11am – 11:50 am
Strategies for Conducting Peer Teaching Evaluations	Faculty Development, Texas State University	September 2, 2025 2:00pm - 3:30pm
AI for Everyday Teaching: Getting Started with Gemini & NotebookLM	Faculty Development, Texas State University	September 4, 2025 10:00am-11:30am

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press)

1. Books (if not refereed, please indicate)

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books: *(1 published)*

1. **Mazumder M.**, Lee S.-J., Lee M.-S., “Properties of Styrene-Isoprene-Styrene (SIS) Modified Asphalt Binder.” In: Raab C. (eds) *Proceedings of the 9th International Conference on Maintenance and Rehabilitation of Pavements*—Mairepav9. Lecture Notes in Civil Engineering, Vol 76. Springer, Cham (June 2020)

2. Articles

a. Refereed Journal Articles: *(17 published, 2 submitted, 2 in preparation)*

2025

1. Bhattarai, S.S., Shyaamkrishnan, V., Lee, S. J., **Mazumder, M.**, Kim, H., (2025). Digital Technologies Readiness Among Undergraduate Construction Management Students: An Exploratory Study. *Proceedings of Associated Schools of Con*, 6, 231-240. (July 2025)

2023

2. Hemmati, N., Yun, J., **Mazumder, M.**, Lee, M. S., & Lee, S. J., Characterization of Sustainable Asphalt Binders Modified with Styrene–Isoprene–Styrene (SIS) and Processed Oil. *Sustainability*, 15(12), 9464 (June 2023)
3. Hemmati, N., Vigneswaran, S., **Mazumder, M.**, Lee, M. S., & Lee, S. J., Laboratory Assessment of Modified Asphalt Binders Using Crumb Rubber Modifier (CRM) and Processed Oil. *Construction Materials*, 3(1), 93-109 (March 2023)

2022

4. Yun, J., **Mazumder, M.**, Na, I. H., Lee, M. S., & Kim, H. H., “Evaluation of Effect of Thermoplastic Polyurethane (TPU) on Crumb Rubber Modified (CRM) Asphalt Binder” *Materials*, 15(11), 3824 (May 2022)

2021

5. Hemmati, N., Yun, J., **Mazumder, M.**, Lee, S.-J., Lee, M.-S., “Laboratory Characterization of Asphalt Binders Modified with Styrene Butadiene Rubber (SBR)” *Materials*, 14(24), 7666 (December 2021)
6. **Mazumder, M.**, Yun, J., Lee, S. J., & Jeong, K. D., “Cost-Effectiveness of Conventional Compaction (CC) and Intelligent Compaction (IC) Methods of Asphalt Pavement Overlay” *Sustainability*, 13(21), 11830 (October 2021)
7. Kim, H. H., **Mazumder, M.**, Lee, M. S., & Lee, S. J., “Evaluation of Petroleum Resin in Rubberized Asphalt Binder” *Sustainability*, 13(16), 9319 (August 2021)
8. Hemmati, N., Kim, H. H., **Mazumder, M.**, Lee, S.-J., Lee, M.-S., “Laboratory assessment of asphalt binders containing petroleum resin” *International Journal of Pavement Research and Technology*, <https://doi.org/10.1007/s42947-021-00060-y> (June 2021)

2020

9. **Mazumder, M.**, Siddique, A., Ahmed, R., Lee, S. J., & Lee, M. S., “Rheological and Morphological Characterization of Styrene-Isoprene-Styrene (SIS) Modified Asphalt Binder” *Advances in Civil Engineering*, <https://doi.org/10.1155/2020/8877371> (December 2020)
10. **Mazumder, M.**, Kim, H. H., Jeong, K-D, Lee, S.-J., “A review on quality control index of new asphalt pavement construction” *Journal of the Korean Asphalt Institute*, 10(2), 172-195. doi:10.22702/jkai.2020.10.2.016 (December 2020)
11. Ji, B., Lee, S. J., **Mazumder, M.**, Lee, M. S., & Kim, H. H., “Deep Regression Prediction of Rheological Properties of SIS-Modified Asphalt Binders” *Materials*, 13(24), 5738 (December 2020)
12. Kim, H. H., **Mazumder, M.**, Lee, M.-S., Lee, S.-J., “Laboratory Evaluation of Sustainable PMA Binder containing Styrene-Isoprene-Styrene (SIS) and Thermoplastic Polyurethane” *Sustainability*, Vol. 12(23), pp.10057 (December 2020)
13. Kim, H. H., **Mazumder, M.**, Lee, M.-S., Lee, S.-J., “Laboratory evaluation of SBS modified asphalt binder containing GTR, SIS, and PE” *Advances in Civil Engineering*, <https://doi.org/10.1155/2020/8830622> (November 2020)
14. **Mazumder, M.**, Ahmed, R., Lee, M.-S., Lee, S.-J., “Optical characterization of asphalt binders containing wax additives” *Advances in Civil Engineering*, <https://doi.org/10.1155/2020/4170691> (February 2020)

2019

15. **Mazumder, M.**, Kim, H. H., Lee, S.-J., “Crack sealing vs crack filling: A state of the art review and analysis.” *Journal of the Korean Asphalt Institute*, Vol. 9(2), pp. 207-233. (December 2019)
16. **Mazumder, M.**, Ahmed, R., Hasan, M., Lee, S.-J., Lee, M.-S., “Spectroscopic ellipsometry of asphalt binder: a study of optical Constants” *International Journal of Civil Engineering*, Vol. 18, pp. 251-259 (October 2019)
17. Kim, H. H., **Mazumder, M.**, Lee, M.-S., Lee, S.-J., “Evaluation of high-performance asphalt binders modified with SBS, SIS and GTR” *Advances in Civil Engineering*, <https://doi.org/10.1155/2019/2035954> (October 2019)

2019 (Aug) - 2015

18. **Mazumder, M.**, Kim, H. H., Lee, S.-J., Lee, M.-S., “Economic analysis of crack treatment methods using HDM-III modeling” *International Journal of Civil Engineering*, Vol. 17, pp. 1739-1751 (August 2019)
19. **Mazumder, M.**, Lee, M.-S., Lee, S.-J. “Installation and implementation of proper tack coat

- application.” *Journal of the Korean Asphalt Institute*, Vol. 9(1), pp. 14-39 (June 2019)
20. Kim, H. H., **Mazumder, M.**, Lee, S.-J., Lee, M.-S., “Effect of production process on performance properties of warm rubberized binders” *Journal of Traffic and Transportation Engineering*, Vol. 6(6), pp. 589-597 (May 2019)
 21. **Mazumder, M.**, Kim, H. H., Lee, S.-J., Lee, M.-S., “Cost effectiveness of crack treatment methods: a field study” *Journal of Traffic and Transportation Engineering*, Vol. 6(6), pp. 598-607 (March 2019)
 22. **Mazumder, M.***, Kim, H. H., Lee, S.-J., Lee, M.-S., “Crack treatment performance on pavement marking, joint and shoulder lanes in Texas” *Innovative Infrastructure Solutions*, 4, 16. <https://doi.org/10.1007/s41062-019-0202-7> (February 2019)
 23. **Mazumder, M.***, Kim, H. H., Lee, S.-J., “Comparison of field performance of crack treatment method in asphalt pavement of Texas” *Journal of Transportation Engineering, Part B: Pavements, ASCE*, Vol. 145(1), 04018057-9. (November 2018)
 24. **Mazumder, M.**, Ahmed, R., Ali, W., Lee, S.-J., “SEM and ESEM techniques used for the analysis of asphalt binder and mixture: a state of the art review” *Construction and Building Materials*, Vol. 186, pp. 313-329 (July 2018)
 25. **Mazumder, M.***, Sriraman, V., Kim, H.H. and Lee, S.J., “Quantifying the environmental impacts of crack sealing and filling treatment in hot mix asphalt pavement” *Innovative Infrastructure Solutions*, 3, 61. <https://doi.org/10.1007/s41062-018-0161-4> (July 2018)
 26. Kim, H. H., **Mazumder, M.**, Lee, S.-J., “Recycling of aged asphalt binders with wax warm additives” *Road Materials and Pavement Design*, Vol. 19(5), pp. 1203-1215 (July 2018)
 27. Kim, H. H., **Mazumder, M.**, Lee, S.-J., Lee, M.-S., “Characterization of recycled crumb rubber modified binders containing wax warm additive” *Journal of Traffic and Transportation Engineering*, Vol. 5(3), pp. 197-206 (June 2018).
 28. Ali, W., Kim, H. H., **Mazumder, M.**, Lee, M.-S., Lee, S.-J., “Multiple Stress Creep Recovery (MSCR) Characterization of polymer modified asphalt binder containing wax additives” *International Journal of Pavement Research and Technology*, Vol. 11, pp. 774-788 (May 2018).
 29. Kim, H. H., **Mazumder, M.**, Lee, M.-S., Lee, S.-J., “Effect of blending time on viscosity of rubberized binders with wax additives” *International Journal of Pavement Research and Technology*, Vol. 11(6), pp. 655-665 (March 2018)
 30. Kim, H. H., **Mazumder, M.**, Torres, A., Lee, M.-S., Lee, S.-J., “Characterization of CRM binders with wax additives using an atomic force microscopy (AFM) and an optical microscopy” *Advances in Civil Engineering Materials, ASTM*, Vol. 6(1), pp. 504-525 (December 2017).
 31. Kim, H. H., **Mazumder, M.***, Lee, S.-J., “Micromorphology and rheology of warm binders depending on aging” *Journal of Materials in Civil Engineering, ASCE*, Vol. 29(11), 04017226 (September 2017)
 32. Kim, H. H., **Mazumder, M.**, Lee, M.-S., Lee, S.-J., “Identification of the microstructural components of crumb rubber modified asphalt binder (CRMA) and the feasibility of using

environmental scanning electron microscopy (ESEM) coupled with energy dispersive X-Ray spectroscopy (EDX).” *International Journal of Highway Engineering*, Vol. 18(6), pp. 41-50 (December 2016)

33. **Mazumder, M.***, Sriraman, V., Kim, H. H., Lee, S.-J., “Quantifying the environmental burdens of the hot mix asphalt (HMA) pavements and the production of warm mix asphalt (WMA).” *International Journal of Pavement Research and Technology*, Vol. 9(3), pp. 190-201 (June 2016)
34. **Mazumder, M.**, Kim, H. H., Lee, S.-J., “Performance properties of polymer modified asphalt binders containing wax additives.” *International Journal of Pavement Research and Technology*, Vol. 9(2), pp. 128-139 (March 2016)
35. **Mazumder, M.**, Kim, H. H., Lee, S.-J., “Perpetual pavement: future pavement network” *Journal of Advanced Construction Materials*, Vol. 19(1), pp. 35-49 (December 2015)

b. Non-refereed Articles:

3. Conference Proceedings

a. Refereed Conference Proceedings: (* denotes corresponding author)

1. **Mazumder, M.***, Kim, H. H., Lee, S.-J., “Comparison of Field Performance of Crack Treatment Methods in Asphalt Pavement: Crack Filling versus Crack Sealing” In: 97th TRB Annual Meeting, *Transportation Research Board*. Washington, D.C., Jan. 2018.

5. Reports:

- a. **Mazumder, M.**, Kim, H. H., Humphries, E., and Lee, S.-J., Crack Sealing vs. Crack Filling (Project 0- 6832), Texas Department of Transportation (TxDOT), August 2017.

6. Book Reviews:

7. Other Works in Print:

B. Works not in Print

1. Papers Presented at Professional Meetings:

2. Invited Talks, Lectures, and Presentations:

3. Consultancies:

4. Workshops:

5. Other Works not in Print:

- b. Works “submitted” or “under review”

Yun, J., Bhattarai, S.S., Mazumder, M., Lee, S.J., Kim, H., “Storage Stability of CRM Asphalt Binders: In Depth Analysis on the Rheological and Microscopic Properties” International Journal of Pavement Engineering. (April 13)

Yun, J., Bhattarai, S.S., Mazumder, M., Lee, S.J., Kim, H., “Evaluation of storage stability for CRM asphalt binder based on rheological properties and topographical images” International Journal of Pavement Engineering. (May 25)

c. Works “in progress”

Mazumder, M., “Morphological structure analysis of SIS modified asphalt binder as a crack sealant”

Sriya, S., Mazumder, M., Kim, H., Lee, M.S., Lee, S.J., “Comparative Environmental Impact Assessment of Hot Mix Asphalt (HMA) and Crumb Rubber Modified Asphalt (CRMA) Pavement”

C. Grants and Contracts

1. Funded External Grants and Contracts:

- Korea Agency for Infrastructure Technology Advancement (KAIA), 2021, PI (Lee, S.-J.), CoPI (Mazumder, M., Kim, H. H.) “Development of Rubberized Asphalt Binder (PG 82-22) for Low-Noise Double-Layer Pavements”, Amount: \$106,195, April 2021 – December 2023.

2. Submitted, but not Funded, External Grants and Contracts:

- Texas Department of Transportation (TxDOT), 2021, PI (Kim, H.H.), CoPIs, (Lee, S.-J., You, B.H., Mazumder, M.), “Quantifying Maximum Accumulated Seal Cost Layers for Stability”, Amount: \$458,750, December 2021 – August 2024.
- Texas Department of Transportation (TxDOT), 2021, PI (Lee, S.-J.), CoPIs, (Kim, H.H., Kim, Y. J., Mazumder, M.), “Investigating Prime versus Curing: Where, When and Why” Amount: \$509,250, December 2021 – August 2024.

3. Funded Internal Grants and Contracts:

4. Submitted, but not Funded, Internal Grants and Contracts:

D. Fellowships, Awards, Honors:

Dean of the Graduate College, Texas State University
Graduate College Scholarship

Fall 2018 – Summer 2019

Materials Science, Engineering, and Commercialization, Texas State University
Outstanding MSEC Doctoral Student

Spring 2018

Materials Science, Engineering, and Commercialization, Texas State University
Bootcamp-II Business & Pitch Competition Winner

Spring 2018

Department of Engineering Technology, Texas State University <u>Research Award</u>	Spring 2018
Dean of the Graduate College, Texas State University <u>Travel Fund</u>	Spring 2018
Department of Engineering Technology, Texas State University <u>Academic Excellence</u>	Spring 2016
Department of Engineering Technology, Texas State University <u>Research Award & Service Award</u>	Spring 2015
Bangladesh-Sweden Trust Fund Travel Grant	December 2015
National Institute of Technology (NIT), Durgapur, India Ministry of Foreign Affairs, India <u>Indian Council for Cultural Relations Scholarship Scheme</u>	September 2008 – May 2012
<u>Govt. Scholarship for achieving GPA 5 in SSC-2005 & HSC-2007</u>	May 2005 – April 2007

IV. SERVICE

A. Institutional:

1. University:

- Serving as a member of Graduate faculty (2019 – present)
- Attending annual graduation commencement ceremonies (2019 – Present)
- Serving as a Thesis and Dissertation committee member (2021 - Present)

2. Department/School:

- Participating ACCE Accreditation (2019 – Present)
- Support Construction Advisory Board (CAB) course curriculum review (2020 – Present)
- Conducted ACCE accreditation visit as a Member in Training (MIT) at Missouri State University and shared the experiences/documents and process with the department coordinator (April 2-5, 2022)
- Participating ABET Accreditation (2019 – Present)
- Mentor, Texas Asphalt Pavement Association (TXAPA)/Asphalt Road-eo student competition (2023 – Present)
 - Ranked 2nd and 3rd place at TXAPA Asphalt Road-Eo Competition 2024. There were six universities, including TXST, Texas A&M, OU, and UT Austin.
 - Ranked 2nd place at TXAPA Asphalt Road-Eo Competition 2025. There were seven universities including TXST, Texas A & M, University of Oklahoma, UT San Antonio, UT El Paso, University of Arkansas, and LA Tech.

- ACCE Mid-Year Conference (2020 – 2021)
- Attending CSM faculty meetings (2019 – Present)
- Participating in the Construction and Concrete Job Fair (2019 – Present)
- Member of Departmental Faculty Internal Curriculum Review (Spring 2021)
- Asphalt lab touring for high school students.
- Committee Member, New Instructional Faculty Line Guideline & Policy for Department of Engineering Technology (2024-Present)
- [Engineering Technology representative in the Graduate student Recruiting Committee of Dean Office \(2024-Present\)](#)
 - Created Flyer for the Construction Management and Engineering Management graduate program, and work with the Dean's office to deliver brochures, swags, and flyers (Fall 2024)
- Attended and presented department MS programs in “Exploring Graduate School Fair” at Texas State University (October 10, 2024)
- Facilitated Asphalt Lab safety inspections (April 16, 2025)
- [Served as MSEC 7304 course collaborative research advisor \(Summer 2025\)](#)
Bhattarai, Sushmit S., PhD in Materials Science, Engineering, and Commercialization
Collaborative Research Title: Performance of corn silk as asphalt modifier.

B. Professional:

- [Reviewer, Journal of Transportation Engineering, Part B: Pavements \(ASCE\) \(2025 – Present\)](#)
- Reviewer, Construction and Building Materials (Elsevier) (2018 – Present)
- Reviewer, Advances in Civil Engineering (Wiley) (2024 – Present)
- Reviewer, International Journal of Pavement Research and Technology (Elsevier) (2018 – Present)
- Reviewer, Journal of Traffic and Transportation Engineering (Elsevier) (2018 – Present)
- Reviewer, Materials and Design (Elsevier) (2019)
- Reviewer, International Journal of Pavement Engineering (Taylor and Francis) (2021 – Present)
- Reviewer, Journal of Composite Science (MDPI) (2025 – Present)
- Reviewer, Sustainability (MDPI) (2019 – Present)
- Reviewer, Infrastructure (MDPI) (2019 – Present)
- Reviewer, Materials (MDPI) (2019 – Present)
- Reviewer, Coatings (MDPI) (2021-Present)
- Reviewer, Applied Sciences (MDPI) (2022 – Present)
- Reviewer, Case Studies in Construction Materials (Elsevier) (2021 – Present)
- Reviewer, Recycling (MDPI) (2025 – Present)
- Reviewer, Buildings (MDPI) (2022 – Present)
- Reviewer, Polymers (MDPI) (2025 – Present)