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Associate Professor
Department of Landscape Architecture
Davis College of Agricultural Sciences and Natural Resources
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EDUCATION

2015	Ph.D.	North Carolina State University, Design (Landscape Architecture).
2011	M. Arch.	Bangladesh University of Engineering and Technology.
2006	B. Arch.	Bangladesh University of Engineering and Technology.

PROFESSIONAL EXPERIENCE

2025-Present	Associate Professor, Texas Tech University.
2023-Present	Associate Director, STEM CORE, Texas Tech University.
2019-2025	Assistant Professor, Texas Tech University.
2015-2019	Postdoctoral Scholar, North Carolina State University.
2007-2011	Lecturer, Bangladesh University of Engineering and Technology.

LICENSES AND CERTIFICATIONS

2015	Graduate Certificate in GIS, North Carolina State University.
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MEMBERSHIPS IN PROFESSIONAL SOCIETIES

2019-Present	Member, Environmental Design Research Association (EDRA)
2019-Present	Member, Council of Educators in Landscape Architecture (CELA)

HONORS AND AWARDS

Awards:

2025	(Faculty Mentor) ASLA Merit Award to Fawzia Bhuiya for work titled <i>Play with Playa</i> .
2025	(Faculty Mentor) Texas ASLA Design Competition Merit Award in the Research Category to Umme Haque for MLA Thesis titled <i>The Impact of Nature-Based Outdoor Play and Learning Areas on Children with Autism Spectrum Disorder (ASD)</i> .

- 2024 Davis College of Agricultural Sciences and Natural Resources Junior Faculty Award, Texas Tech University.
- 2024 (Faculty Mentor) ASLA Merit Award to Umme Haque for work titled *The Impact of Nature-Based Outdoor Play and Learning Areas on Children with Autism Spectrum Disorder (ASD)*.
- 2024 (Faculty Mentor) Texas ASLA Design Competition Merit Award to Umme Haque, Danielle Craig, Zahid Hasan, Fariha Tasnim, Moyin Akinbobola, and J. Garrett Farrow for entry titled *Reimagining a Nature Playscape for Below-3 Children*.
- 2024 New Faculty Award, Texas Tech Alumni Association (TTAA), Texas Tech University
- 2023 (Faculty Mentor) Best Student Design Poster Award in the Environmental Design Research Association (EDRA) 54 Environment and Health: Global/Local Challenges and Actions Conference, Mexico City, Mexico to S Y Andalib for his work titled *Playgrounds that Promote Development: Integrating Child Development Theory into Landscape Planning and Design*.
- 2023 (Faculty Mentor) Award of Excellence in the Research Category in ASLA (National) Student Awards to Nazia Trina for her entry titled *The Play Value of Plants*.
- 2023 (Faculty Mentor) Texas Tech Obesity Research Institute Annual Meeting 1st Prize in Graduate Student Poster Competition to Nazia Trina.
- 2023 (Faculty Mentor) Texas ASLA Design Competition Honor Award to Jonathan Mata.
- 2022 Davis College of Agricultural Sciences and Natural Resources Service/Outreach Award, Texas Tech University.
- 2022 Best Poster Honorable Mention in CELA (Council of Educators in Landscape Architecture) Conference, New Mexico to Nazia Trina for her work titled *The Play Value of Plants: Altering Parts of Plants as Loose Part Play Materials in Early Childhood Learning Landscapes*.
- 2021 (Faculty Mentor) ASLA Merit Award to S Y Andalib for work titled *Designing for Curiosity*.
- 2020 President's Emerging Engaged Scholarship Award, Texas Tech University.
- 2018 Gertrude Cox Award for Innovative Excellence in Teaching and Learning with Technology, Office of Faculty Development, North Carolina State University.
- 2016 2016-2017 Professional Development Awards for postdocs, North Carolina State University.
- 2015 ARCC (Architectural Research Centers Consortium) King Medal for excellence in innovation, integrity, scholarship in architectural/environmental design research.
- 2014 Student Design Award for *Measuring Indoor-Outdoor Spatial Relationship in Preschool Classroom Environment*, In EDRA45, New Orleans.
- 2014 2nd Place, 9th Annual Graduate Student Research Symposium, North Carolina State University.
- 2012 1st Place, EDRA Student Paper Award 2012 for *Impact of Street Design on Children's Independent Mobility* in EDRA43, Seattle.

Honors:

- 2025 Community-Engaged Learning (CEL) Faculty Affiliate, Texas Tech University

- 2024 Fellow in the inaugural Societal Impact Fellows Program, Office of Outreach and Engagement, Texas Tech University.
- 2023 Member of the inaugural cohort of the Texas Tech Faculty Fellows Mentoring Program in Engaged Scholarship.
- 2021 Member of the 2021-2022 Institute for Inclusive Excellence, Texas Tech University.
- 2021 Fellow in the Teaching Mentoring through Peer Observation (TeMPO) Program, Texas Tech University.
- 2020 Service-Learning Faculty Fellow (2020-2021), Texas Tech University.
- 2019 Member of the 3rd Cohort of the Online Course Improvement Program (OCIP), North Carolina State University.

AREA OF EXPERTISE

Landscape Architecture, Architecture, Children’s Environment, Built Environment and Health, Natural Learning, Preventing Obesity by Design, GIS, Environment-Behavior Mapping, Extended Reality (XR) Technology including Augmented Reality (AR), Virtual Reality (VR), and Mixed Reality (MR).

PATENTS

Cosco, N., **Monsur, M.**, Moore, R. C., Hestenes, L., Sumrell, J., & Moore, L. (2023). Method and System for Assessing Play Value of a Playground.
<https://www.google.com/patents/US20170200100>

PUBLICATIONS

Book Chapters: total published 2,

1. **Monsur, M.** (2024) “Built Environment and Physical Activity: Online GIS Technology for Mapping Environment-Behavior Relationships.” *Spatial Literacy in Public Health*, Ed. Laureen P. Cantwell, MSLIS, Association of College & Research Libraries (ACRL).
<https://alastore.ala.org/spatial-literacy-public-health-faculty-librarian-teaching-collaborations>
2. **Monsur, M.** (2020) “Turning the Classroom Inside Out.” *Place, Pedagogy and Play: Participation, Design, and Research with Children*. Ed. Dr. Matluba Khan, Dr. Jenny Wood, and Dr. Simon Bell. Routledge, Taylor & Francis.
<https://www.taylorfrancis.com/chapters/edit/10.4324/9780429023477-9/turning-classroom-inside-muntazar-monsur>

Refereed Journals: **Total published 20**, Accepted 0. IF=Impact Factor, CS=CiteScore,
 *Corresponding Author

1. Trina, N.A., **Monsur, M.*** (2025). Plants and play: value of plant databases to transform plants as loose parts play materials in outdoor learning environments. *Learning Environ Res* (2025). <https://doi.org/10.1007/s10984-025-09555-y>

2. Trina, N. A., **Monsur, M.***, Cosco, N., Loon, L., Shine, S., & Mastergeorge, A. (2025). Rethinking Traditional Playgrounds: Temporary Landscape Interventions to Advance Informal Early STEAM Learning in Outdoors. *Education Sciences*, 15(8), 952. <https://doi.org/10.3390/educsci15080952>
3. Andalib, S. Y., **Monsur, M.***, Cook, C., Lemon, M., Zawarus, P., & Loon, L. (2025). Enhancing Landscape Architecture Construction Learning with Extended Reality (XR): Comparing Interactive Virtual Reality (VR) with Traditional Learning Methods. *Education Sciences*, 15(8), 992. <https://doi.org/10.3390/educsci15080992>
4. Samira, R., **Monsur, M.***, Trina, N.A. (2025). How the Built Environment Shapes Children's Microbiome: A Systematic Review. *Microorganisms*, 13, 950. <https://doi.org/10.3390/microorganisms13040950>
5. Trina, N. A., **Monsur, M.**, Cosco, N., Shine, S., Mastergeorge, A., & Loon, L. (2025). The Role of Landscape Elements in Outdoor Learning Environment Design to Facilitate STEAM Learning in Early Years: Learning in Early Years. *Children, Youth and Environments*, 35(1), 55-81.
6. Trina, N.A., **Monsur, M.**, Cosco, N. *et al.* (2025) Tools for Assessing the STEAM Learning Affordances and Quality of Outdoor Learning Environments of Childcare Centers: A Systematic Review. *Early Childhood Educ J.* <https://doi.org/10.1007/s10643-025-01911-0>
7. Thomas, A., **Monsur, M.**, Lindquist, C. S., Montague, T., & Simpson, C. R. (2024). Impacts of Landscape Types and Flower Colors on the Emotional Perceptions of Military Service Members. *Land*, 13(12), 2111. <https://doi.org/10.3390/land13122111>
8. **Monsur, M.***, Mansur, M., Trina, N. A., & Cosco, N. (2024). Hands-On Gardening in Childcare Centers to Advance Preschool-Age Children's Fruit and Vegetable Liking in Semi-Arid Climate Zone. *International Journal of Environmental Research and Public Health*, 21(11), 1485. (*IJERPH*, *IF*=4.6, *CS*=5.4) <https://doi.org/10.3390/ijerph21111485>
9. Craig, D.; Trina, N.A.; **Monsur, M.***; Haque, U.T.; Farrow, G.; Hasan, M.Z.; Tasnim, F.; Akinbobola, M.S. (2024) Effective Nature-Based Outdoor Play and Learning Environments for below-3 Children: A Literature-Based Summary. *International Journal of Environmental Research and Public Health (IJERPH)*, *IF*=4.6, *CS*=5.4), 21, 1247. <https://doi.org/10.3390/ijerph21091247>
10. Trina, N.A.; **Monsur, M.***; Cosco, N.; Shine, S.; Loon, L.; Mastergeorge, A. (2024) How Do Nature-Based Outdoor Learning Environments Affect Preschoolers' STEAM Concept Formation? A Scoping Review. *Education Sciences* (*IF*=3.0, *CS*=4.0), 14(6): 627. <https://doi.org/10.3390/educsci14060627>
11. Andalib, S.; **Monsur, M.*** (2024) Co-Created Virtual Reality (VR) Modules in Landscape Architecture Education: A Mixed Methods Study Investigating the Pedagogical Effectiveness of VR. *Education Sciences* (*IF*=3.0, *CS*=4.0), 14(6):553. <https://doi.org/10.3390/educsci14060553>

12. Thomas, A.; **Monsur, M.**; Lindquist, C.S.; Montague, T.; Simpson, C.R. (2024). Evaluation of Military Service Member Preferences of Landscape Design Elements in Therapeutic Gardens. *Land* (IF=3.9, CS=3.7), 13, 658. <https://doi.org/10.3390/land13050658>
13. **Monsur, M.***; Hefner, T.; Van Allen, J.; Trina, N.A.; Andalib, S.Y.; Cosco, N. (2024). Effects of Childcare Hands-On Gardening on Preschoolers' (3–5 Years) Physical Activity in Semi-Arid Climate Zone. *International Journal of Environmental Research and Public Health* (IJERPH, IF=4.6, CS=5.4), 21, 548. <https://doi.org/10.3390/ijerph21050548>
14. Wells, N. M., Cosco, N. G., Hales, D., **Monsur, M.**, & Moore, R. C. (2023). Gardening in Childcare Centers: A Randomized Controlled Trial Examining the Effects of a Garden Intervention on Physical Activity among Children Aged 3–5 Years in North Carolina. *International Journal of Environmental Research and Public Health* (IJERPH, IF=4.6, CS=5.4), 20(11), 5939. <https://doi.org/10.3390/ijerph20115939>
15. Khan, M., Spinney, J., & **Monsur, M.** (2023). To do or not to do: practical and ethical concerns in online research with children and young people during crises. *Children's Geographies* (IF=2.5, CS=4.4), 1-16. <https://doi.org/10.1080/14733285.2023.2237916>
16. Cosco, N. G., Wells, N. M., Zhang, D., Goodell, L. S., **Monsur, M.**, Xu, T., & Moore, R. C. (2022). Hands-on childcare garden intervention: A randomized controlled trial to assess effects on fruit and vegetable identification, liking, and consumption among children aged 3–5 years in North Carolina. *Frontiers in Psychology* (IF=3.8, CS=4.5), 13. <https://doi.org/10.3389/fpsyg.2022.993637>
17. Beasley, D. E., **Monsur, M.**, Hu, J., Dunn, R. R., & Madden, A. A. (2022). The bacterial community of childcare centers: potential implications for microbial dispersal and child exposure. *Environmental microbiome* (IF=7.9, CS=6.1), 17(1), 1-13. <https://doi.org/10.1186/s40793-022-00404-6>
18. Trevino, J. E., **Monsur, M.**, Lindquist, C. S., & Simpson, C. R. (2022). Student and Nature Interactions and Their Impact on Mental Health during the COVID-19 Pandemic. *Int. J. Environ. Res. Public Health* (IJERPH, IF=4.6, CS=5.4), 19(9), 5030. <https://doi.org/10.3390/ijerph19095030>
19. Cosco, N. G., Wells, N. M., **Monsur, M.**, Goodell, L. S., Zhang, D., Xu, T., ... & Moore, R. C. (2021). Research Design, Protocol, and Participant Characteristics of COLEAFS: A Cluster Randomized Controlled Trial of a Childcare Garden Intervention. *Int. J. Environ. Res. Public Health* (IJERPH, IF=4.6, CS=5.4), 18(24), 13066. <https://doi.org/10.3390/ijerph182413066>
20. **Monsur, M.***, Mansur, M., Islam Z. (2017) Are children living on dead-end streets more active? Near-home street patterns and school-going children's time spent outdoors in Dhaka, Bangladesh. *Preventive Medicine* (IF=5.1, CS=7.1), Elsevier <https://dx.doi.org/10.1016/j.ypmed.2016.11.016>

Proceedings (Refereed): total 4

1. Andalib, S. Y. & **Monsur, M.** (2023). *Learning Opportunities Through Immersive Technology: A Comparative Analysis Between Traditional and XR-Aided Learning in Design* [Conference Paper]. Architectural Research Centers Consortium (ARCC) 2023 The Research-Design Interface Conference, Dallas, TX.
2. **Monsur, M.** (2014) GIS for Architects, ARCC 2014, Hawaii, Proceeding of the Annual Conference of the Architectural Research Centers Consortium: ARCC/EAAE 2014, 48-56
3. **Monsur, M.** (2013). Transitional Space and Preschool Children's Play & Learning Behavior in Childcare Environment. In ARCC Conference Repository.
4. **Monsur, M.**, & Islam, Z. (2012). Impact of street design on children's independent mobility in EDRA 43 Emergent Place Making (May 2012) Proceeding, 82-88.

Technical Reports: total 2

1. Klein, C., Gaines, K., Brettmann, K., Anderson-Guerrero, M., Colwell, M., & **Monsur, M.** (2021). Outdoor Learning Environments Play Settings Notebook. Texas Tech University.
 2. Klein, C., Gaines, K., Brettmann, K., Anderson-Guerrero, M., Colwell, M., & **Monsur, M.** (2021). Outdoor Learning Environments Workshop Kit. Texas Tech University.
- Other Publications: total 1

1. **Monsur, M.**, Samayeen, N. (2020). Rethinking Dhaka's Urbanism: A Child's World in a Manmade City, The Daily Star, Dhaka, Bangladesh
<https://www.thedailystar.net/in-focus/news/rethinking-dhakas-urbanism-childs-world-manmade-city-1921905>

ENGAGED SCHOLARSHIPS

1. **Monsur, M.**, Moore, R., Andalib, S., Trina, N., Babb, M., & Cosco, N., Haque, U. (2024) YouTube video *How to start your childcare garden?* The video provides meaningful tips to childcare providers about starting small for building hands-on gardening in childcare centers. The video was funded by USDA NIFA (USDA Award No. 2020-70001-31277).
YouTube Link: <https://youtu.be/lrI8JUdp4Bc?feature=shared>
2. **Monsur, M.**, Moore, R., Andalib, S., Trina, N., Babb, M., & Cosco, N., Haque, U. (2024) YouTube video *Why do we need hands-on gardening in childcare centers?* The video highlights the significance of hands-on gardening for children and teachers in childcare centers. It emphasizes the numerous health and well-being benefits that gardening offers. The video was funded by USDA NIFA (USDA Award No. 2020-70001-31277).
YouTube Link: https://youtu.be/XX_AFMErZ5Q?feature=shared
3. **Monsur, M.**, Mastergeorge, A., Haque, U., Craig, D., Trina N., Hasan, M., Scaff, L. (2024) Landscape for Learning: Reimagining Childcare 'Playgrounds' as Nature-Based Informal

Learning Environments, Discoveries to Impact, 6th Annual Engaged Scholarship Symposium, Texas Tech University. (Presentation with students and community partner)

3. **Monsur, M.**, Trina, N., Andalib, S., & Haque, U. (2022) Interactive Virtual Tour (IVT) of *Little Giants Learning Center in Commerce City, Colorado*. The IVT has 6 embedded educational materials (e.g., lectures, videos, slideshows, PDFs, etc.) locationally within the tour to teach childcare professionals about creating healthy and active outdoor environments for 0-5-year-old children. So far, the IVT has a total of 5839 impressions with 347 unique visitors. IVT Link: <https://my.matterport.com/show/?m=ZQGHdeLdcZc>

In the news: <https://www.newamerica.org/education-policy/briefs/rethinking-outdoor-space-for-high-quality-early-learning/>

4. **Monsur, M.**, Trina, N., & Andalib, S. (2022) Interactive Virtual Tour (IVT) of *A Safe Place Child Enrichment Center in Raleigh, North Carolina*. The IVT has 60 embedded educational materials (e.g., lectures, videos, slideshows, PDFs, etc.) locationally within the tour to teach childcare professionals about creating healthy and active outdoor environments for 0-5 years old children. So far, the IVT has a total of 860 impressions with 441 unique visitors. IVT Link:

<https://my.matterport.com/show/?m=eRwaopEpcJw>

In the news: <https://landscapearchitecturemagazine.org/2023/02/02/log-in-to-log-off/>

INVITED TALKS

1. **Monsur, M.** (2024). Translating Children's Developmental Needs to Designing Effective Early Childhood Outdoor Environments. Virtual Lecture Series: Supporting Optimal Development Through Healthy Environments. University of Nebraska–Lincoln

2. **Monsur, M.** (2024). Translating Children's Developmental Needs to Designing Effective Early Childhood Outdoor Environments. Cardiff University.

3. **Monsur, M.** (2024). From Needs to Nature: Crafting Effective Early Childhood Outdoor Environments. Live Webinar organized by the Center for Outreach, Research, & Education (CORE), PlayCore Inc. <https://education.playcore.com/products/core-wrapped-24-from-needs-to-nature-crafting-effective-early-childhood-outdoor-environments>

PRESENTATIONS

1. **Monsur, M.** (2025, accepted) Engaged Teaching and Research on Children's Environment and Behavior: A 'Whole Child' Approach, EDRA56 Halifax

2. **Monsur, M.**, Islam, Z., Amin, M., Badruddoza, S. (2024) Mapping Child-Friendliness: A Data-Driven Approach to Understanding, Visualizing, and Measuring Child-Friendly Indicators of Cities, AMPs Livable Cities, London

3. **Monsur, M.**, Andalib, S Y., Trina, N. A., Moore, R., and Cosco, N. (2024). Creating a Video Series to Promote Hands-On Gardening in Childcare Centers. Environmental Design Research Association (EDRA55) Conference in Portland, Oregon, USA.
4. **Monsur, M.**, Trina, N. A., Haque, U.T., and Horsford, J. (2024). Planting Design for Early Childhood Environments: A Storytelling Approach to Promote Play and Learning Values of Plants in Childcare Centers. Environmental Design Research Association (EDRA55) Conference in Portland, Oregon, USA.
5. **Monsur, M.** (October 2023). Virtual Tours to Train Childcare Professionals and Future Leaders to Create Healthier Early Childhood Environments. NLGCA Project Director (PD) Meeting in conjunction with the Non-land-grant Agricultural and Renewable Resources Universities (NARRU) Annual Conference, October 8 - 11 in Lubbock, TX.
6. **Monsur, M.** (October 2023). Effectiveness of a Childcare Hands-On Gardening Component for Preventing Preschool Obesity in Different Climatic Zones and Demographic Areas. NLGCA Project Director (PD) Meeting in conjunction with the Non-land-grant Agricultural and Renewable Resources Universities (NARRU) Annual Conference, October 8 - 11 in Lubbock, TX.
7. **Monsur, M.**, Trina, N., Andalib, S. Y., Haque, U. (2023) Using Interactive Virtual Tours to Inspire Incremental Development of an Outdoor Play and Learning Environment (Workshop Presentation) in Marjie Collins Early Connections for Lifelong Learning Workshop, Child Development Research Center (CDRC), Texas Tech University, Lubbock, Texas.
8. **Monsur, M.**, Trina, N., Andalib, S Y. (2023) GIS-Based Behavior Mapping for Measuring Preschool-Aged Children's Hands-on Gardening Activities, in EDRA54, Mexico City.
9. **Monsur, M.**, Moore, R., Cosco, N. (2023) Interactive Virtual Tours (IVTs) for Advancing Nature Connections and Physical Activity at Childcare Outdoors, in EDRA54, Mexico City.
10. **Monsur, M.**, Sullivan, W., Cosco, N., Brink, L., Klein, C. (2021) Federal Grants for Advancing Landscape Architecture: Realities, Challenges, and Possibilities, CELA 2021 Annual Conference (Selected for Panel Presentation).
11. **Monsur, M.**, Bernard, E., Phillips, D. (2021) Interactive Virtual Tours: An Inclusive Alternative Solution for Site Visits in Landscape Education During the Time of Social Distancing, CELA 2021 Annual Conference.
12. Dane, R., **Monsur, M.** (2021) Impact of Built Environment on Learning Behaviors: A Comprehensive Review of the Past 20 Years (2000 – 2020), EDRA52 Detroit Virtual Conference (Selected for Abstract Presentation).

13. Klein, C., **Monsur, M.**, Gaines, K., Colwell, M., (2020) Promoting Child Development, Inclusion, and Health Through Natural Learning, Excellence in Engaged Scholarship Webinars, University Outreach and Engagement Webinar Series 2020, Texas Tech University.
14. **Monsur, M.**, & Moore, R. (2019, May). Cloud-Based Behavior Mapping: Exploring Latest Online GIS Technologies for Mapping Environment-Behavior Relationships. In Sustainable Urban Environments: Research, Design and Planning for the Next 50 Years. EDRA.
15. Cosco, N., **Monsur, M.** (2019) Promoting Healthy Behavioral Outcomes in Childcare Centers Through Hands-on Fruit and Vegetable (FV) Gardening, EDRA50 Sustainable Urban Environments: Research, Design, and Planning for the Next 50 Years, Brooklyn, NY.
16. **Monsur, M.**, Moore, R., Cosco, N. (2018) Transitional play: Exploring the play value of classroom indoor-outdoor relationship of space, US Play Coalition Annual Conference, Clemson, April 2018.
17. **Monsur, M.**, Hu, J., Beasley, D., Madden, A., Moore, R. C., & Cosco, N. G. (2016). Linking Macro-Micro Biodiversity: Designing the School and Childcare Center/Landscape Interface to Stimulate Healthy Child Development. In *Innovation: Shifting Ground*. EDRA.
18. **Monsur, M.**, Moore, R., Cosco, N. (2016) Outdoor Classroom Intervention to Promote Early Childhood STEM Learning Activities. EDRA47 Raleigh, June 2016.
19. **Monsur, M.**, Islam, Z., and Khan, M. (2013) How Environment Shapes Our Children: The Relationship Between Children's Behavior and Physical Characteristics of the Environment in the 4th Annual Conference of Distressed Children and Infants International (DCI), Yale University, New Haven, Connecticut.

EXHIBITIONS

- 2024 Davis Extended Reality (XR) Exhibition,
<https://www.depts.ttu.edu/agriculturalsciences/news/posts/2024/04/la-launches-extended-reality-expo-at-dairy-barn.php>
- 2020 Virtual Exhibition: CDRC Outdoor Classroom Design in Memories of Marjie Collins,
Exhibition Link: <https://www.artsteps.com/view/5f851d7024cdf120f3f86533>

GRADUATE STUDENT COMMITTEES

Total 17 (Completed 10 + Ongoing 7)

Completed: 10 (Chaired: 3, Committee Member: 7)

M.S.

1. Umme Haque, MLA Thesis: *The Impact of Nature-Based Outdoor Play Areas on Play and Learning Behaviors of Children with Autism Spectrum Disorder (ASD)*, Committee Chair (2023-2024)
2. J. Garrett Farrow, MLA Thesis: *Public Opinion and Perceptions of Urban Plantings in Arid Environments: How to Improve Urban Plantings in West Texas Cities*, Department of Landscape Architecture (DoLA), Texas Tech University. Role: Committee Member (2021-2023).
3. Saad Andalib, MLA Thesis: *A Comparative Analysis of XR Oriented Pedagogy with Traditional Pedagogy in Landscape Learning*, Department of Landscape Architecture (DoLA), Texas Tech University. Role: Committee Chair (2020-2022).
4. Nazia Afrin Trina, MLA Thesis: *The Play Value of Plants: Altering Parts of Plants as Loose Part Play Materials in Early Childhood Learning Landscapes*, Department of Landscape Architecture (DoLA), Texas Tech University. Role: Committee Chair (2020-2022).
5. Shuvo Datta, MLA Thesis: *Introducing GI to Improve Water Quality of Public Waterbodies in Dhaka*, Department of Landscape Architecture (DoLA), Texas Tech University. Role: Committee Member (2020-2022).
6. Md. Kamrul Hasan, Thesis Project: *Engaging Green Infrastructure at Different Scales of a Semi-arid Community: Towards a Sustainable Ecosystem*, Department of Landscape Architecture (DoLA), Texas Tech University. Role: Committee Member (2020-2022).
7. Fatema Ali Tushi, Thesis Project: *Stormwater Management Integrating Blue-Green Infrastructure (BGI) for Flood Mitigation on the Texas Tech Campus*, Department of Landscape Architecture (DoLA), Texas Tech University. Role: Committee Member (2020-2022).
8. Jonah E Trevino, Master of Horticultural Science Thesis: *Plants in The Periphery: Passive Interactions with Plants in Different Learning Environments*, Department of Plant and Soil Science (PSS), Texas Tech University. Role: Committee Member (2020-2021).
9. Andrew D. Castilleja, *Reclaiming the South Plains: Sustainable Development as a Model for Economic Growth on Lands Impacted by Oil and Gas Industry Operations*, MLA Thesis: Department of Landscape Architecture (DoLA), Texas Tech University. Role: Committee Member (2019-2021).

Ph.D.

1. Alicia Thomas, Dissertation: *The effects of plant-related activities and landscape design as a therapeutic modality for military veterans living in the Southern High Plains: A horticultural therapy study*, Department of Plant and Soil Science (PSS), Texas Tech University. Role: Committee Member (2020-2023).

Ongoing: 7 (Chaired: 6, Committee Member: 1)

M.S.

1. Mehri Farnaz, *Campus Landscape and Student Social Behaviors*, Committee Chair (2024-)
2. Fawzia Bhuiyan, *Participatory Design to Advance Learning Affordances of Public Parks*, Committee Chair (2024-)
3. Sarjana Afroz, *Sustainable Materials and Thermal Comfort in Semi-Arid Playgrounds*, Committee Chair (2024-)

Ph.D.

1. Nazia Afrin Trina, LPMD (Ph.D.): *Landscape Elements on Outdoor Learning Environment Design to Facilitate STEAM Learning in Early Years*, Texas Tech University. Role: Committee Chair (2022-).
2. Saad Andalib, LPMD (Ph.D.): *Integrating Extended Reality (XR) into Landscape Architecture Education - An Interdisciplinary Approach to Pedagogy and Best Practices in XR Development for Academic Settings*, Texas Tech University. Role: Committee Chair (2022-).
3. Danielle Craig, LPMD (Ph.D.): *The Interplay between Urbanization and Playa Lakes within the Great Plains*, Texas Tech University. Role: Committee Member (2023-)

ADVISING

2020-present Graduate Advising of all MLA and LA LPMD students, Texas Tech University.
2019-2020 Undergraduate Advising of BLA students, Texas Tech University.

TEACHING RESPONSIBILITIES

Texas Tech University (2019 – present)

LARC 6416: Landscape for Learning (MLA Spring Semester)
LARC 6363: Research Methodology for Planning and Design: Research Methods and Development (MLA Fall Semester)
LARC 5001: Special Topics (MLA Fall or Spring Semester)
LARC 6203: Thesis Research, Preparation, and Organization (MLA Spring Semester)
LARC 1412: Landscape Design Studio II – Site Design (BLA Spring Semester)
LARC 2413: Landscape Design Studio III – Site Systems (BLA Fall Semester)
LARC 2332: Landscape Construction and Administration II (BLA Spring Semester)
LPMD 7000: Research (Ph.D. Fall or Spring Semester)

GRANTS AND AWARDS (>\$2.5 MILLION)

Funded: **\$2,529,918**

2025 Co-PI, *Creating Active Outdoor Environments for Young Children of Texas – Phase 9*, Texas Department of State Health Services, \$46,000

- 2024 Co-PI, *Environmental design as a catalyst for optimizing companion animal welfare and human health*. Davis CASNR Catalyst Grand Challenge Program, \$250,000
- 2024 **PI**, *Go SC Behavior Mapping: Using ArcGIS Online for the Evaluation of Outdoor Learning Environment (OLE) Interventions in Childcare Centers*, Sub-Award (Extension) from NC State University, \$18,263
- 2023 **PI**, *Go SC Behavior Mapping: Using ArcGIS Online for the Evaluation of Outdoor Learning Environment (OLE) Interventions in Childcare Centers*, Sub-Award from NC State University, \$46,980
- 2023 Co-PI, *A Collaborative Trans-Disciplinary Network for Exploring Novel Ideas and Developing Next Generation Workforce for Water Conservation*, Davis CASNR Catalyst Grand Challenge Program, \$250,000
- 2023 **PI**, *Davis XR (Extended Reality) Innovation Center: Envisioning A High-Tech Facility to Advance Transdisciplinary Collaborations in Davis CASNR and Beyond*, Davis CASNR Catalyst Grand Challenge Program, \$50,000
- 2023 *Creating Active Outdoor Environments for Young Children of Texas – Phase 7*, Texas Department of State Health Services, \$56,000
- 2022 Co-PI, *Creating Active Outdoor Environments for Young Children of Texas – Phase 6*, Texas Department of State Health Services, \$121,000
- 2022 **PI**, *Creating Play Value Assessment Score Databases for Play Components*, PlayCore Inc. \$36,322
- 2022 **PI**, *Using Interactive Virtual Tours to Train Childcare Professionals and Future Leaders to Create Healthier Early Childhood Environments*, USDA NIFA, \$299,709
- 2021 Co-PI, *iVisiT: Interactive Virtual Tours for Advancing Food and Agricultural Sciences*, USDA NIFA, \$749,995
- 2021 Co-PI, *Creating Active Outdoor Environments for Young Children of Texas – Phase 5*, Texas Department of State Health Services, \$121,000
- 2021 **PI**, *Play Value Assessment Tool Dissemination Phase*, Sub-Award from NC State University, \$5000
- 2020 **PI**, *Effectiveness of a Childcare Hands-on Gardening Component for Preventing Preschool Obesity in Different Climatic Zones and Demographic Areas*, USDA NIFA, \$272,149.
- 2020 **PI**, *Developing a GIS-Based Index to Measure Child-Friendliness of a City*, Office of International Affairs, Texas Tech University, \$2000.
- 2020 **PI**, *Effectiveness of Virtual Reality Tools for Distance Learning in Environmental and Agricultural Education*, Davis College, Texas Tech University, \$7000.
- 2020 Co-PI, *Creating Active Outdoor Environments for Young Children of Texas – Phase 4*, Texas Department of State Health Services, \$198,500

Pending:

- 2025 Co-PI, *Gardening and Children's Exposure to Bacterial Communities: Investigating the Health Benefits of Childcare Gardening at Microbiome Level*. USDA NIFA, \$165,104

2025 **PI**, *Virtual, Augmented, and Mixed Reality (VR, AR, & MR) Gamification to Advance Teaching, Learning, and Recruitment in Agricultural Sciences*. USDA NIFA Higher Education Challenge (HEC) Grant, \$150,000

Rejected:

2022 **PI**, *A Million Points of Light: Nature Play Parklets for All*, The LEGO Foundation, \$30,000,000

2022 **PI**, *Klein Corner: Nature Play Parklets for All*, The CH Foundation, Inc. \$90,000

2020 Co-PI, *iVisiT: Interactive Virtual Tours for Advancing Agricultural Education During the Time of Social Distancing*, USDA AFRI Rapid Response to Novel Coronavirus (SARS-COV-2), \$1,000,000

2020 Co-PI, *A Child Mental Health Pandemic? An Investigation into Social and Spatial Factors Affecting Child Resilience During COVID-19 to inform Post-Pandemic City Design and Planning*, UKRI Ideas to Address COVID-19 Grant, £391,054

2020 **PI**, *Recruiting Future Leaders for Combating Early Childhood Obesity in Childcare Centers in Hispanic Communities*, USDA NIFA, \$30,000

2020 **PI**, *Advancing Childcare Healthy Living in Lubbock Co. Using Interactive Virtual Tours*, The CH Foundation, Inc. \$39,218

CONSULTING ACTIVITIES

2021 Interactive Virtual Tours (IVTs) for ECHO Outdoor Learning Environments (OLEs) in Early Learning Ventures (ELV) Demonstration Sites, Early Childhood Health Outdoors (ECHO), National Wildlife Federation (NWF).

2019 Workshop: Behavior Mapping Data Collection to Measure Park-Based Activities, Harris County Public Health.

SERVICE TO

University:

2023-Present Associate Director, STEM CORE, Texas Tech University.

2023-Present Member, T&P Engaged Scholar Committee.

2023 Member, Search Committee, Vice Provost of Outreach and Engagement, Texas Tech University.

2019-2023 Faculty Advisor, Association of Bangladeshi Students and Scholars (a community of 200+ students, faculty, and staff), Texas Tech University.

College:

2022 Member, Dean Search Committee, Davis College, Texas Tech University.

2021-2023 Member, (Former) Diversity, Equity, and Inclusion (DEI) Committee, Davis College, Texas Tech University.

- 2021-Present Member, Committee for International Activities, Davis College, Texas Tech University.
- 2020-Present Member, Research & Graduate Studies Committee, Davis College, Texas Tech University.
- Department:
- 2019-Present Graduate Coordinator for Master of Landscape Architecture Program, Department of Landscape Architecture, Texas Tech University.
- 2024 Committee Chair, Faculty Search Committee (two positions), Department of Landscape Architecture, Texas Tech University.
- 2023 Member, Faculty Search Committee, Department of Landscape Architecture, Texas Tech University.
- 2022 Member, Department Chair Search Committee, Department of Landscape Architecture, Texas Tech University.
- 2020 Member, Faculty Search Committee, Department of Landscape Architecture, Texas Tech University.
- Community:
- 2023-Present Landscape Designer, Early Learning Centers of Lubbock (ELCL) Inc.
- 2021-Present Landscape Designer, Christine DeVitt and Helen DeVitt Jones Child Development Research Center (CDRC) Outdoor Play and Learning Environment Redesign, Texas Tech University.

MEDIA

- [Dept. of Landscape Architecture Launches Extended Reality Expo](#)
- [Davis College Awards Ceremony Honors Outstanding Faculty, Staff Members](#)
- [Exploring the Future of Landscape Design with Dr. Monsur from Texas Tech](#)
- [Log In to Log Off: Virtual Views to Help Overtaxed Teachers See the Future in Nature-Based Play Spaces.](#)
- [TTU MLA student wins National ASLA Excellence Award in Research!](#)
- [LA standout Trina shines in annual ORI Graduate Student Competition](#)
- [Davis College awards ceremony honors outstanding faculty, staff members](#)
- [Texas Tech Researchers Helping Create Healthier Child Care Environments](#)
- [CASNR team develops interactive virtual tours utilizing 3D camera technology](#)
- [Monsur joins Institute for Inclusive Excellence Program](#)
- [LA students design CDRC preschool outdoor classroom honoring Collins](#)
- [Researchers study hands-on gardening's role in preventing preschool obesity](#)
- [Rethinking Dhaka's Urbanism: A Child's World in a Manmade City](#)
- [Landscape Architecture Class Creates Recycled-Material Playscapes for CDRC](#)
- [Landscape Architecture Students Venture Outside While Staying Inside](#)

