

Contact Info	13th St Gainesville FL 32608	qian.shi@ufl.edu Personal site linkedin
Education	University of Florida, Gainesville, FL Ph.D. in Construction Management <ul style="list-style-type: none"> Coursework: CAP 6615 - Neural Networks, PHC 6068 - R Computing, COT 5405 - Analysis Of Algorithms, BCN6785 - Construction Information System 	May 2025(expected)
	University of Florida, Gainesville, FL M.A. in Construction Management	August 2020
	Southeast University, Nanjing, China B.A. in Civil engineer	June 2017
Research Experience	Rinker Lab, University of Florida, Gainesville, FL, USA Numerical simulation research assistant ◇Assisted Professor Ian Flood with the Auto-regressive Acoustic Predictive Model : <ul style="list-style-type: none"> Developed a TWiST-Norm-enhanced DDPM model for 2D acoustic pressure prediction, where temporal weighting improves spatiotemporal coherence through adaptive normalization. Proposed a coarse-grained integration strategy that achieves a 15.6× speed-up while maintaining a low sound pressure level error of 3.5 dB in reconstructing acoustic pressure field sequences, effectively balancing accuracy and computational efficiency. Demonstrated strong approximation performance in extended scenarios, revealing a trade-off between accuracy and efficiency in highly reflective environments. ◇Assisted Professor Ian Flood with the Bending Moment NN in Weigh-in-Motion : <ul style="list-style-type: none"> An LSTM-based RNN trained on simulated bending moment data outperformed SVMs and other machine learning tools in weigh-in-motion classification in accuracy and anti-noise ability ◇Assisted Professor Zhiguang Huo with the Bending Moment Generation : <ul style="list-style-type: none"> Developed an R package that generates bending moment time series data for different truck specifications based on FHWA standards as they traverse a bridge. 	August 2020 - present
Working Experience	Hengda Construction Company, Inner Mongolia, China Site Technician <ul style="list-style-type: none"> Assisted in on-site data collection, including surveying and verifying measurements to ensure accuracy of construction plans. Assisted in preparing and maintaining construction project schedules using tools like Primavera. 	August 2016
Computer Skills	<ul style="list-style-type: none"> Programming: Python, R, Java Machine learning libraries: Scikit-learn, Pytorch, Keras Applications: ArcGIS, Comsol, Revit 	
Certificate	<ul style="list-style-type: none"> Neural Networks and Deep Learning Introduction to Financial Accounting 	