

Contact Info	Hardy St Hattisburg, MS 39402	qian.shi@ufl.edu www.qians.com
Education	University of Florida, Gainesville, FL Ph.D. in Construction Management	May 2025(expected)
	<ul style="list-style-type: none"> <li>Committee: Ian Flood, Hassan Azad, Chaofeng Wang, Kejun Huang</li> <li>Coursework: CAP 6615 - Neural Networks, PHC 6068 - R Computing, COT 5405 - Analysis Of Algorithms</li> </ul>	
	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	August 2020 - present
	Assisted Professor Ian Flood with the Fast transient pressure acoustic simulation NN:	
	<ul style="list-style-type: none"> <li>Developed the transient pressure acoustic model using COMSOL Multiphysics</li> <li>Designed neural network models to capture sound propagation dynamics with high-resolution simulation data, ensuring alignment with real-world accuracy.</li> <li>Built multiple coarse-grained models by reducing data resolution (spatial and temporal) and model complexity (feature resolution), achieving significant performance improvements with minimal impact on precision.</li> </ul>	
	Assisted Professor Ian Flood with the Bending moment NN in Weigh-in-motion:	
	<ul style="list-style-type: none"> <li>Collecting bending moment data of trucks under regulations of FHWA by Influence line equation.</li> <li>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</li> </ul>	
	Assisted Professor Zhiguang Huo with the Bending moment generation:	
	<ul style="list-style-type: none"> <li>Developed an R package that generates bending moment time series data for different truck specifications based on FHWA standards as they traverse a bridge.</li> </ul>	
Working Experience	Hengda Construction Company, Inner Mongolia, China	
	Site Technician	August 2016
	<ul style="list-style-type: none"> <li>Assisted in on-site data collection, including surveying and verifying measurements to ensure accuracy of construction plans.</li> <li>Assist in preparing and maintaining construction project schedules using tools like Primavera.</li> </ul>	
Computer Skills	<ul style="list-style-type: none"> <li>Programming: Python, R, Java</li> <li>Machine learning libraries: Scikit-learn, Pytorch, Keras</li> <li>Applications: L<sup>A</sup>T<sub>E</sub>X, Comsol, Revit</li> </ul>	
Certificate	<ul style="list-style-type: none"> <li>Neural Networks and Deep Learning</li> </ul>	