

## 王黎怡简介



姓名：麻胜兰

学位：博士

职称：副教授

职务：院长助理

学科方向：结构工程

研究方向：结构健康监测与诊断加固、结构抗震分析

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个人主页：

主要经历			
起	迄	学习/工作单位	学历学位/职称职务
2017.11	今	福建理工大学土木工程学院	讲师、副教授
2016.11	2017.10	福州大学土木学院	RA
2015.10	2016.10	澳大利亚科廷大学	联合培养博士生
2011.09	2016.06	福州大学土木学院	工学博士
2008.09	2011.03	福州大学土木学院	工学硕士
2004.09	2008.06	福建工程学院土木工程系	工学学士

教学科研情况	
科研/教 研项目	1.主持国基自然科学基金青年科学基金项目“基于深度卷积神经网络的稀疏信号重构与结构损伤识别方法研究”，2019.01-2021.12； 2.主持中国博士后科学基金面上二等资助“基于深度学习的古建木结构损伤识别研究”，2020-10-2022-10； 3.主持福建省自然科学基金青年项目“基于压电智能骨料的水下不分散混凝土柱早期强度监测与损伤评估”，2020-10-2023-12； 4.参与国家“十三五”重点专项课题“地域特色融合的东南传统民居保护利用与提升”，2020-10-2022-12； 5.参与国家自然科学基金“面向延裂缓塑需求的型钢-PET 纤维混凝土框架节点塑性演化机理和抗震设计方法”，2024.01-2027.12。

获奖情况	<p>1.获 2019 年福建省科技进步二等奖</p> <p>2.获 2022 年福建省科技进步一等奖</p> <p>3.获 2020 年福建省教学成果二等奖</p> <p>4.获 2022 年福建省教学成果一等奖</p>
发表论文	<p>1.<b>Ma S L(麻胜兰)</b>, Xu M Y, Wu C, Huang Z, Zhang F. Experimental Study on Bending Fatigue Performance of Ambient-Cured Ultra-High-Performance Concrete Thin Plate with Embedded Steel Wire Mesh. Constr Build Mater. 2024;449:138276. (SCI 收录)</p> <p>2.<b>Ma S L(麻胜兰)</b>, Ren S, Wu C, Jiang S, Huang W. Damage identification of non-dispersible underwater concrete columns under compression using impedance technique and stress-wave propagation [J]. Journal of Civil Structural Health Monitoring, 2024, 1-15. (SCI 收录)</p> <p>3.<b>Ma S L(麻胜兰)</b>, Li S, Wu C, Zhang X, Zeng Z. Crack detection and damage evaluation of asymmetrical steel-reinforced concrete frame nodes using acoustic emission technology [J]. Nondestructive Testing and Evaluation, 2024, 1-27. (SCI 收录)</p> <p>4.<b>Ma S L(麻胜兰)</b>, Huang Z B, Shao K K, Wu C, Zheng Z. Flexural behavior and load-bearing capacity calculation methodology for wooden beams strengthened using aluminum plates attached with self-tapping screws [J]. Wood Material Science &amp; Engineering, 2024, 1-13. (SCI 收录)</p> <p>5.<b>Ma S L(麻胜兰)</b>, Ren S, Chen Z, Wu C, Jiang S F. Wooden beam damage evaluation under bending loading based on the integration of acoustic emission and principal component analysis [J]. Measurement, 2023, 222: 113569. (SCI 收录)</p> <p>6.<b>Ma S L(麻胜兰)</b>, Liu Y H, Jiang S F. Structural performance assessment by acceleration measurements based on null space method and fast independent component analysis for the frame-shear wall structure under earthquake wave [J]. Journal of Civil Structural Health Monitoring, 2022, 12(5): 1027-1041. (SCI 收录)</p> <p>7.<b>Ma S L(麻胜兰)</b>, Jiang S F, Wu C, Wu S Y. Identification of sudden stiffness change in the acceleration response of a nonlinear hysteretic structure [J]. Shock and Vibration, 2020(1): 3824216. (SCI 收录)</p> <p>8.<b>Ma S L(麻胜兰)</b>, Jiang S F, Li J. Structural damage detection considering sensor performance degradation and measurement noise effect [J]. Measurement, 2019, 131: 431-442. (SCI 收录)</p> <p>9.<b>Ma S L(麻胜兰)</b>, Li J, Hao H, Jiang S F. Structural response recovery based on improved multi-scale principal component analysis considering sensor performance degradation [J]. Advances in Structural Engineering, 2018, 21(2): 241-255. (SCI 收录)</p> <p>10. Shen S, Wang Y, <b>Ma S L(麻胜兰)</b>, Huang D, Wu Z H, Guo X. Evaluation of prestress loss distribution during pre-tensioning and post-tensioning using</p>

	<p>long-gauge fiber Bragg grating sensors [J]. Sensors, 2018, 18(12): 4106. (SCI 收录)</p> <p>11. Wu C, Xiao X F, <b>Ma S L(麻胜兰)</b>, Chen K D, Lin G L. Flexural strengthening of reinforced concrete beams with different levels of damage using ambient-cured ultra-high performance concrete [J]. Structure and Infrastructure Engineering, 2023, 1-17. (SCI 收录)</p> <p>12. Fan X, Li J, Hao H, <b>Ma S L(麻胜兰)</b>. Identification of minor structural damage based on electromechanical impedance sensitivity and sparse regularization [J]. Journal of Aerospace Engineering, 2018, 31(5): 04018061. (SCI 收录)</p> <p>13. Jiang S F, Wu M H, <b>Ma S L(麻胜兰)</b>, Lin D Y. Structural stiffness identification of traditional mortise-tenon joints based on statistical process control chart [J]. Journal of Aerospace Engineering, 2018, 31(5): 04018066. (SCI 收录)</p> <p>14. Shen S, Zeng Y, Lai C, Jiang S, Wu S, <b>Ma S L(麻胜兰)</b>. Rapid Three-Dimensional Reconstruction of Underwater Defective Pile Based on Two-Dimensional Images Obtained Using Mechanically Scanned Imaging Sonar [J]. Structural Control and Health Monitoring, 2023(1): 3647434. (SCI 收录)</p> <p>15. <b>麻胜兰</b>, 姜绍飞, 陈志刚. 基于 IMPSCO 和改进 Newmark-<math>\beta</math>算法的结构系统及激励辨识研究 [J]. 振动与冲击, 2017, 36(15): 22-28. (EI 收录)</p> <p>16. <b>麻胜兰</b>, 姜绍飞. CFRP-PVC 管混凝土轴压中长柱承载力研究 [J]. 土木工程学报, 2014, 47(01): 99-106. (EI 收录)</p> <p>17. <b>麻胜兰</b>, 陈志宁, 邵顺安, 等. 基于声发射多参数耦合的木材裂缝检测方法 [J]. 建筑结构, 2024, 54(02): 136-144. (中文核心收录)</p>
主讲课程	<p>理论课：建筑结构抗震设计、土木工程试验、结构健康监测导论、智能感知与数据融合</p> <p>实践课：毕业设计、毕业实习、建筑结构抗震课程设计、综合实验</p>