Curriculum Vitae

<table>
<tr><td rowspan="6">Personal Information</td><td>Name</td><td>Haoyu HUANG</td><td>Gender</td><td>Male</td><td rowspan="3"></td></tr>
<tr><td>Academic Title</td><td colspan="3">Lecturer</td></tr>
<tr><td>College</td><td colspan="3">Beijing University of Technology</td></tr>
<tr><td>Discipline</td><td colspan="4">Civil Engineering</td></tr>
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<tr><td>Educational Background</td><td colspan="5">2013/9-2017/6, University of Bath, Civil Engineering, PhD

2009/9-2013/7, Beijing University of Technology, Civil Engineering, BEng</td></tr>
<tr><td>Working Experience</td><td colspan="5">2017/10-present, Beijing University of Technology, Civil Engineering, Lecturer</td></tr>
<tr><td>Research Interests</td><td colspan="5">Structural vibration control; Timber structures; Tuned mass damper; Shape memory alloy; Serviceability design</td></tr>
<tr><td>Major Publications*</td><td colspan="5">

[1] Wang, C., Chang, W.-S., Yan, W., **Huang. H.***, Predicting the human-induced vibration of cross laminated timber floor under multi-person loadings, Structures, 2020, 29: 65-78.

[2] **Huang, H.**, Wang, C., Chang, W. -S. *, Reducing human-induced vibration of cross laminated timber floor - Application of multi-TMD system, Structural Control and Health Monitoring, 2020: 1-20.

[3] **Huang, H.**, Mosalam, K. M., Chang, W. -S. *, Adaptive tuned mass damper with shape memory alloy for seismic application, Engineering Structures, 2020, 223: 1-14.

[4] **Huang, H.**, Chang, W. -S.*, Re-tuning an off-tuned tuned mass damper by adjusting temperature of shape memory alloy: exposed to wind action, Structures, 2020, 25: 180-189.

[5] **Huang, H.**, Gao, Y., Chang, W. -S.*, Human-induced vibration of Cross Laminated Timber (CLT) floor with different boundary conditions, Engineering Structures, 2020, 204: 1-11.

[6] **Huang, H.**, Zhu Y-Z., Chang, W. -S.*, Comparison of bending fatigue of NiTi and CuAlMn shape memory alloy bars, Advances in Materials Science and Engineering, 2020: 1-10.

[7] **Huang, H.**, Chang, W. -S.*, Application of pre-stressed SMA-based tuned mass damper to a timber floor system, Engineering Structures, 2018, 167: 143-150

[8] **Huang, H.**, Chang, W. -S. *, Mosalam, K. M., Feasibility of shape memory alloy in a tuneable mass damper to reduce excessive in-service vibration, Structural Control and Health Monitoring, 2017, 24(2): 1-14

[9] **Huang, H.**, Chang, W. -S. *, Seismic resilience timber connection-adoption of shape memory alloy tubes as dowels, Structural Control and Health Monitoring, 2017, 24(10): 1-10

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<tr><td>Research Projects*</td><td colspan="5">

1. Project funded by National Natural Science Foundation of China, Study on the seismic-reduction mechanism of the multi-storey cross laminated timber structure based on the semi-active TMD system, 2020/01-2022/12, under research, leader

2. Project funded by Beijing Municipal Education Commission, Vibration control of tall structures using shape memory alloy-based MTMD system, 2019/01-2021/12, under research, leader

3. Basic Research Foundation of Beijing University of Technology, Study of the shape memory alloy-based TMD for the vibration reduction of the CLT floor system, 2018/01-2019/12, under research, leader

4. General project of Beijing University of Technology Key Laboratory of urban and engineering safety and disaster reduction, Ministry of Education, Beijing Key Laboratory of Engineering aseismic and structural diagnosis, Study of the SMA-based TMD system for reducing the human-induced vibration on the floor system, 2019/01-2021/12, under research, leader

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Professional Membership	n/a
Potential Research Projects**	1. Structural vibration control using innovative tuned mass damper systems. 2. Structural dynamic applications of shape memory alloy. 3. Seismic performance of tall cross-laminated timber structures. 4. Serviceability design of large-span cross-laminated timber floor.

* Please list achievements of recent 5 years

** This CV is intended to match Chinese and Polish Scientists within SPUC member universities, and Potential Research Projects is intended to apply for Sino-Polish or EU scientific cooperation projects.