Dong Liu

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EDUCATION

- **Stevens Institute of Technology**   **Hoboken, NJ**

Ph.D., Civil Engineering   Expected May 1st, 2023

M.S., Civil Engineering   May 2019

- **Changsha University of Science & Technology**   **China**

B.S., Civil Engineering   July 2017

RELEVANT SKILL

Knowledge and experience in signal processing, machine learning, remote sensing

Programming: MATLAB, Python, LabVIEW

Finite element analysis (FEA): COMSOL, Abaqus, SOLIDWORKS

Nondestructive testing (NDT): Nonlinear acoustic method, eddy current, UT, EMAT, etc.

PUBLICATIONS

- Vibro-acoustic modulation baseline-free non-destructive testing **published by** *Journal of Sound and Vibration*

- Vibroacoustic modulation method with arbitrary probe wave frequency based on machine learning algorithms **published by** *Nondestructive Testing and Evaluation*

- Sideband Peak Count in a Vibro-Acoustic Modulation Method for Crack Detection. **published by** *Acoustics MDPI*

- Frequency Modulation in Vibro-Acoustic Modulation Method **published by** *International Journal of Civil and Environmental Engineering*

- Vibroacoustic Modulation of Wideband Vibrations and Its Possible Application for Windmill Blade Diagnostics **published by** *International Journal of Civil and Environmental Engineering*

HONORS & AWARDS

- **1st Place.** *The 2nd international UHPC student competition*
- **Best presentation award** *International Conference on Construction Systems and Smart Materials, October 2022 in New York*
- **Best presentation award** *International Conference on Non-Destructive Testing in Civil Engineering Structures, December 2022 in New York*

PATENT

- **structural health monitoring system and method** U.S. patent application # 17/105414