

Pai Wang

Education

B.Eng., Engineering Science	National University of Singapore	2010
M.S., Applied Mathematics	Harvard University	2012
Ph.D., Applied Mathematics	Harvard University	2016

Academic Experience

University of Utah,	07/2019 - Now
Asst. Professor, Department of Mechanical Engineering	
Full-time	

Certifications of professional registrations

N/A

Current membership in professional organizations

1. American Physical Society (APS)
2. American Society of Mechanical Engineers (ASME)
3. Society of Engineering Science (SES)

Honors and awards

1. 07/2015 NSF Presentation Award, McMAT, Seattle, USA
2. 06/2015 Euro. Phys. Soc. Best Oral Presentation, Phononics, Paris, France
3. 04/2014 NSF AmeriMech Fellowship in Acoustic Metamaterials, Atlanta USA

Service activities (within and outside of the institution)

1. Seminars Committee, Dept. of Mechanical Engineering
2. Session Chair, Annual Technical Meeting, Society of Engineering Science
3. Session Chair, International Mechanical Engineering Congress & Exposition, American Society of Mechanical Engineering
4. Reviewers for multiple journals, including *Science*, *Physical Review Letters*, *Science Advances*, *Nature Physics*, *Nature Communications* and *Extreme Mechanics Letters*

Principal publications and presentations from the past five years

1. Nonlinear Waves in Flexible Architected Elastic Chains: Vector Solitons, Invited Speaker at *Phononics 2019*, Tucson, AZ, USA, 2019
2. New Frontiers in Acoustics and Vibrations, Invited Speaker at *Mechanical Engineering Seminar at City University of Hong Kong*, Hong Kong, China, 2018
3. Nonlinear transition waves in free-standing bistable chains, B Deng, P Wang, V Tournat, K Bertoldi, *Journal of the Mechanics and Physics of Solids* 136, 103661, 2019

4. Metamaterials with amplitude gaps for elastic solitons, B Deng, P Wang, Q He, V Tournat, K Bertoldi, *Nature communications* 9 (1), 1-8, 2018
5. Motion microscopy for visualizing and quantifying small motions, N Wadhwa, et al., *Proceedings of the National Academy of Sciences* 114 (44), 11639-11644, 2017
6. Harnessing Geometric Frustration to Form Band Gaps in Acoustic Channel Lattices, P Wang, et al., *Physical Review Letters* 118 (8), 084302, 2017
7. Architected materials with ultra-low porosity for vibration control, F Javid, P Wang, A Shanian, K Bertoldi, *Advanced materials* 28 (28), 5943-5948, 2016
8. Harnessing deformation to switch on and off the propagation of sound, S Babaei, N Viard, P Wang, NX Fang, K Bertoldi, *Advanced Materials* 28 (8), 1631-1635, 2016

Recent professional development activities

1. Research Mentor Training Workshop, 2019
2. Center for Teaching and Learning Technology Online Teaching Workshop, 2020