

Name: MA, Guancong (马冠聪)

Academic Qualification: Ph.D. in physics, Hong Kong University of Science and Technology (2012).

Previous Positions:

- ♦ Postdoc Fellow, Institute for Advanced Study, Hong Kong University of Science and Technology (Dec. 2014 – Nov. 2017);
- ♦ Research Associate, Department of Physics, Hong Kong University of Science and Technology (Jun. 2012 – Nov. 2014).

Present Position:

Assistant Professor, Department of Physics, Hong Kong Baptist University (Feb. 2018 – present);

Research Areas: Acoustic and elastic metamaterials; Phononic crystals; Wavefield shaping.

Research Output: 20 publications in peer-reviewed journals with >2800 total citations (Google Scholar), 1 book chapter, 10 invited talks at international conferences, 9 US patents (7 granted, 2 pending).

Five most representative publications in the past 5 years: († corresponding author, § equal contribution.)

- [5] Guancong Ma†, Meng Xiao, C. T. Chan, “Topological Phases in Acoustic and Mechanical Systems,” *Nat. Rev. Phys.* **1**, 281 (2019).
- [4] Guancong Ma†, Xiying Fan, Ping Sheng, Mathias Fink, “Shaping Reverberating Sound Field with an Actively Tunable Metasurface,” *Proc. Natl. Acad. Sci.* **115**, 6638 (2018).
- [3] Guancong Ma†, Xiying Fan, Fuyin Ma, Julien de Rosny, Ping Sheng, Mathias Fink, “Towards Anti-Causal Green’s Function for Three-Dimensional Sub-Diffraction Focusing,” *Nat. Phys.* **14**, 608 (2018).
- [2] Guancong Ma†, Caixing Fu, Guanghao Wang, Philipp del Hougne, Johan Christensen, Yun Lai, Ping Sheng, “Polarization Bandgaps and Fluid-like Elasticity in Fully Solid Elastic Metamaterials,” *Nat. Commun.* **7**, 13536 (2016).
- [1] Meng Xiao§, Guancong Ma§, Zhiyu Yang, Ping Sheng, Zhao-Qing Zhang, C. T. Chan, “Geometric Phase and Band Inversion in Periodic Acoustic Systems,” *Nat. Phys.* **11**, 240 (2015).

Five additional publications: ((† corresponding author; § equal contribution.)

- [5] Kun Ding, Guancong Ma†, Zhao-Qing Zhang, C. T. Chan, “Experimental Demonstration of an Anisotropic Exceptional Point,” *Phys. Rev. Lett.* **121**, 085702 (2018).
- [4] Yi-Xin Xiao§, Guancong Ma§, Zhao-Qing Zhang, C. T. Chan, “Topological Subspace-Induced Bound State in the Continuum,” *Phys. Rev. Lett.* **118**, 166803 (2017).
- [3] Guancong Ma†, Ping Sheng, “Acoustic Metamaterials: From Local Resonances to Broad Horizons,” *Sci. Adv.* **2**, e1501595 (2016).
- [2] Kun Ding§, Guancong Ma§, Meng Xiao, Zhao-Qing Zhang, C. T. Chan, “Emergence, Coalescence, and Topological Properties of Multiple Exceptional Points and Their Experimental Realization,” *Phys. Rev. X* **6**, 021007 (2016).
- [1] Guancong Ma§, Min Yang§, Songwen Xiao, Zhiyu Yang, Ping Sheng, “Acoustic Metasurface with Hybrid Resonances,” *Nat. Mater.* **13**, 873 (2014).