

CURRICULUM VITAE

Han Zhao

CONTACT INFORMATION

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EDUCATION

12/2019	Ph.D. in Electrical and Systems Engineering (Advisor: Dr. Liang Feng) University of Pennsylvania, Philadelphia, PA, USA
06/2014	M.S. in Electrical Engineering University of Electronic Science and Technology of China, Chengdu, China
06/2011	B.S. in Electrical Engineering University of Electronic Science and Technology of China, Chengdu, China

EMPLOYMENT

12/2024 - Present	Assistant Professor Department of Physics University of Central Florida, Orlando, FL
09/2021 - 12/2024	Postdoctoral Researcher (Advisor: Dr. Mohammad Mirhosseini) Department of Electrical Engineering California Institute of Technology, Pasadena, CA
02/2020 - 09/2021	Postdoctoral Researcher (Advisor: Dr. Mo Li) Department of Electrical and Computer Engineering University of Washington, Seattle, WA

SERVICE

Journal reviewer for *Science Advance*, *Physical Review Letters*, *Physical Review Applied*, *Physical Review Research*, *Physical Review A*, *Physical Review B*, *Optica*, *Optics Express*, *Optics Letters*, *Photonics Research*, *Advances in Optics and Photonics*.

JOURNAL PUBLICATIONS

* indicates co-first author

15. **H. Zhao***, W. D. Chen*, A. Kejriwal, M. Mirhosseini. [Quantum-enabled microwave-to-optical transduction via silicon nanomechanics](#). *Nat. Nanotech.* (2025).
14. **H. Zhao**. [Building photonic links for microwave quantum processors](#). *Nanophotonics* (2025).
13. **H. Zhao**, A. Bozkurt, M. Mirhosseini. [Electro-optic transduction in silicon via gigahertz-frequency nanomechanics](#). *Optica* **10**, 790-796 (2023).
12. A. Bozkurt, **H. Zhao**, C. Joshi, H. LeDuc, P. Day, M. Mirhosseini. [A quantum electromechanical interface for long-lived phonons](#). *Nat. Phys.* **19**, 1326-1332 (2023)
11. **H. Zhao***, B. Li*, H. Li, M. Li. [Enabling scalable optical computing in synthetic frequency dimension using integrated cavity acousto-optics](#). *Nat. Commun.* **13**, 5426 (2022).
10. **H. Zhao**, X. Qiao, T. Wu, B. Midya, S. Longhi, L. Feng. [Non-Hermitian topological light steering](#). *Science* **365**, 1163-1166 (2019).
9. J. Yim, **H. Zhao**, B. Midya, L. Feng. [Non-Hermitian heterostructure for two-parameter sensing](#). *Opt. Lett.* 441626 (2019).
8. B. Midya, **H. Zhao**, X. Qiao, P. Miao, W. Walasik, Z. Zhang, N. M. Litchinitser, L. Feng. [Supersymmetric microring laser arrays](#). *Photonics Res.* **7**, 363 (2019).
7. B. Midya, **H. Zhao**, L. Feng. [Non-Hermitian photonics promises exceptional topology of light](#). *Nat. Commun.* **9**, 2674 (2018).
6. **H. Zhao**, Z. Chen, R. Zhao, L. Feng. [Exceptional point engineered glass slide for microscopic thermal mapping](#). *Nat. Commun.* **9**, 1764 (2018).
5. M. Pan*, **H. Zhao***, P. Miao, S. Longhi, L. Feng. [Photonic zero mode in a non-Hermitian photonic lattice](#). *Nat. Commun.* **9**, 1308 (2018).
4. **H. Zhao**, L. Feng. [Parity-time symmetric photonics](#). *Nat. Sci. Rev.* **5**, 183 (2018).
3. **H. Zhao**, P. Miao, M. H. Teimourpour, S. Malzard, R. El-Ganainy, H. Schomerus, L. Feng. [Topological hybrid silicon microlasers](#). *Nat. Commun.* **9**, 981 (2018).

2. **H. Zhao**, W. S. Fegadolli, J. Yu, Z. Zhang, L. Ge, A. Scherer, L. Feng. [Metawaveguide for asymmetric interferometric light-light switching](#). *Phys. Rev. Lett.* **117**, 193901 (2016).
1. **H. Zhao**, S. Longhi, L. Feng. [Robust light state by quantum phase transition in non-Hermitian optical materials](#). *Sci. Rep.* **5**, 17022 (2015).

CONFERENCE PRESENTATIONS

PRESENTED TALKS

7. **H. Zhao**, A. Bozkurt, M. Mirhosseini. Electro-optomechanical transduction using GHz-frequency silicon nanomechanics. *APS March*, Las Vegas, NV (2023).
6. **H. Zhao**, X. Qiao, T. Wu, B. Midya, S. Longhi, L. Feng. Non-Hermitian topological light steering. *Marina Forum on Emetamaterials*, Singapore (2021). (*Student Paper Award*)
5. B. Midya, **H. Zhao**, X. Qiao, P. Miao, W. Walasik, Z. Zhang, N. M. Litchinitser, L. Feng. Supersymmetric microring laser arrays. *FiO/LS*, Washington D. C. (2019).
4. **H. Zhao**, Z. Chen, R. Zhao, L. Feng. Exceptional point engineered glass slide for microscopic thermography. *CLEO*, San Jose, CA (2018).
3. **H. Zhao**, P. Miao, M. H. Teimourpour, S. Malzard, R. El-Ganainy, H. Schomerus, L. Feng. Topological hybrid silicon microlasers. *CLEO*, San Jose, CA (2018).
2. **H Zhao**, W. S. Fegadolli, J. Yu, Z. Zhang, L. Ge, A. Scherer, L. Feng. Asymmetric light control by non-Hermitian photonics. *FiO/LS*, Rochester, NY (2016).
1. **H. Zhao**, S. Longhi, L. Feng. Robust light state by quantum phase transition in non-Hermitian optical materials. *CLEO*, San Jose, CA (2016).