

EDUCATION

| <u>Institution</u> | <u>Dates</u> | <u>Degree</u> | <u>Conferred Date</u> |
|--------------------|-------------------|----------------|-----------------------|
| Yale University | 08/2004 – 05/2010 | PhD in Physics | 05/31/2010 |
| Peking University | 09/2000 – 06/2004 | BS in Physics | 06/21/2004 |

EXPERIENCE

| <u>Institution</u> | <u>Dates</u> | <u>Rank</u> | <u>Department</u> |
|-----------------------------|-------------------|---------------------|------------------------|
| City University of New York | 09/2019 – current | Associate Professor | Physics & Astronomy |
| City University of New York | 08/2013 – 08/2019 | Assistant Professor | Physics & Astronomy |
| Princeton University | 08/2010 – 08/2013 | Research Associate | Electrical Engineering |
| Yale University | 01/2006 – 08/2010 | Research Assistant | Physics |

FELLOWSHIP

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|-----------------------|-----------------------------|-------------|
| NSF CAREER Award | National Science Foundation | 2019 |
| Steward Travel Award | City University of New York | 2014, 2015 |
| Excellence in Science | Yale University and AAAS | 2009 |
| University Fellowship | Yale University | 2004 – 2006 |
| Tsung-Chin Scholar | T. D. Lee Foundation | 2003 |
| Kodak Fellowship | Eastman Kodak Company | 2003 |
| Canon Fellowship | Canon Corporation | 2002 |

PEER-REVIEWED GRANTS

Current and Recommended for Funding

| <u>Funding Agency</u> | <u>Title of Proposal</u> | <u>Amount</u> | <u>Date Submitted</u> | <u>PI or Co-PI</u> |
|-----------------------|--|---------------|-----------------------|--------------------|
| NSF | CAREER: Topology and Symmetry Enabled Phenomena in Lasers and Other non-Hermitian Photonic Media | \$505,182 | 07/2018 | PI |
| PSC-CUNY Cycle 49 | Nascent Light-Matter Interactions and Photonic Active Resonances Controlled by Optical Non-Hermiticity | \$12,000 | 12/2017 | PI |

Concluded

| <u>Funding Agency</u> | <u>Title of Proposal</u> | <u>Amount</u> | <u>Date Submitted</u> | <u>PI or Co-PI</u> |
|-----------------------|--|---------------|-----------------------|--------------------|
| NSF | Investigation of Rotation-Time (RT) and Inversion-Time (IT) Symmetries in Photonic Synthetic Materials | \$186,563 | 10/2014 | PI |
| PSC-CUNY Cycle 48 | Exceptional Points and Pseudo-Hermitian Phase Transition in Nonlinear Optics | \$6,000 | 12/2016 | PI |

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|--------------------------------|---|----------|---------|----|
| PSC-CUNY Cycle 46 | Nonlinearity-Created Topological Structures in Non-Hermitian Systems | \$5,982 | 12/2014 | PI |
| CIRG Cycle 21 | Exceptional Points in Cavity Quantum Electrodynamics | \$30,000 | 08/2014 | PI |
| Provost Research Fellowship | Exceptional Points in Cavity Quantum Electrodynamics | \$10,000 | 05/2014 | PI |
| PSC-CUNY Cycle 45 | Parity-Time Symmetry Breaking beyond One Dimension | \$3,500 | 12/2013 | PI |

REFEREED PUBLICATIONS

Total citations: **5251** h-index: **30** i10-index: **53** (provided by Google Scholar)

Selected Publications

26. (Invited review) “Modern semiclassical laser theory with applications to micro- and nano-lasers,” H. E. Tureci, A. D. Stone, and L. Ge, *Rev. Mod. Phys.* (in preparation).
25. (Invited review) “Non-Hermitian photonics based on parity-time symmetry,” L. Feng, R. El-Ganainy, and L. Ge, *Nature Photon.* 11, 752-762 (December, 2017).
24. “Universal output power enhancement in microlasers by selective pumping,” L. Ge, O. Malik, and H. E. Tureci, *Nature Photon.* 8, 871-875 (October, 2014).
23. “All-optical control of lead halide perovskite microlasers,” N. Zhang, Y. Fan, K. Wang, Z. Gu, Y. Wang, L. Ge*, S. Xiao*, Q. Song*, *Nature Commun.*, in press (February, 2019).
22. “Strong interactions in multimode random lasers,” H. E. Tureci, L. Ge, S. Rotter, and A. D. Stone, *Science* 320, 643-646 (May, 2008).
21. “Time-reversed lasing and control of absorption,” W. Wan, Y. D. Chong, L. Ge, H. Noh, A. D. Stone, and H. Cao, *Science* 331, 889-892 (February, 2011).
20. “Parity-time symmetry breaking beyond one dimension: the role of degeneracy,” L. Ge and A. D. Stone, *Phys. Rev. X* 4, 031011 (July, 2014).
19. “Anomalous transient amplification of waves in non-normal photonic media,” M. K. Makris, L. Ge, and H. E. Tureci, *Phys. Rev. X* 4, 041044 (December, 2014).
18. “Breaking of PT-symmetry in bounded and unbounded scattering systems,” P. Ambichl, K. G. Makris, L. Ge, Y. D. Chong, A. D. Stone, and S. Rotter, *Phys. Rev. X* 3, 041030 (December, 2013).
17. “Defect states emerging from a non-Hermitian flat band of photonic zero modes,” B. Qi, L. Zhang, and L. Ge, *Phys. Rev. Lett.* 120, 093901 (March, 2018).
16. “Experimental demonstration of spontaneous chirality in a nonlinear microresonator,” Q.-T. Cao, H.-M. Wang, C.-H. Dong, H. Jing, R.-S. Liu, X. Chen, L. Ge, Q. Gong, Y.-F. Xiao, *Phys. Rev. Lett.* 118, 033901 (January, 2017).
15. “Metawaveguide for asymmetric interferometric light-light switching,” H. Zhao, W. Fegadolli, J. Yu, Z. Zhang, L. Ge, A. Scherer, and L. Feng, *Phys. Rev. Lett.* 117, 193901 (October, 2016).

14. “Bosonic condensation and disorder-induced localization in a flat band,” F. Baboux, L. Ge, T. Jacqmin, M. Biondi, A. Lemaître, L. Le Gratiet, I. Sagnes, S. Schmidt, H. E. Tureci, A. Amo, and J. Bloch, *Phys. Rev. Lett.* **116**, 066402 (February, 2016).
13. “Rotating optical microcavities with broken chiral symmetry,” R. Sarma, L. Ge, J. Wiersig, and H. Cao, *Phys. Rev. Lett.* **114**, 53903 (January, 2015).
12. “Manipulation of high-order scattering processes in ultrasmall optical resonators to control far-field emission,” B. Redding, L. Ge, Q. H. Song, G. S. Solomon, and H. Cao, *Phys. Rev. Lett.* **112**, 163902 (April, 2014).
11. “Local chirality of optical waves in ultrasmall resonators,” B. Redding, L. Ge, Q. H. Song, J. Wiersig, G. S. Solomon, and H. Cao, *Phys. Rev. Lett.* **108**, 253902 (June, 2012).
10. “Channeling chaotic rays into waveguides for efficient collection of microcavity emission,” Q. H. Song, L. Ge, B. Redding, C. Zeng, G. S. Solomon, and H. Cao, *Phys. Rev. Lett.* **108**, 243902 (June, 2012).
9. “Pump-induced exceptional points in lasers above threshold,” M. Liertzer, L. Ge, C. Cerjan, A. D. Stone, H. E. Tureci, and S. Rotter, *Phys. Rev. Lett.* **108**, 173901 (April, 2012).
8. “PT-symmetry breaking and laser-absorber modes in optical scattering systems,” Y. D. Chong, L. Ge, and A. D. Stone, *Phys. Rev. Lett.* **106**, 093902 (March, 2011).
7. “Directional laser emission from a wavelength-scale chaotic microcavity,” Q. Song, L. Ge, A. D. Stone, H. Cao, J. Wiersig, J.-B. Shim, J. Unterhinninghofen, W. Fang, and G. S. Solomon, *Phys. Rev. Lett.* **105**, 103902 (August, 2010).
6. “Coherent perfect absorbers: time-reversed lasers,” Y. D. Chong, L. Ge, H. Cao, and A. D. Stone, *Phys. Rev. Lett.* **105**, 053901 (July, 2010).
5. “All-optical control of lead halide perovskite microlasers,” N. Zhang, Y. Fan, K. Wang, Z. Gu, Y. Wang, L. Ge*, S. Xiao*, and Q. Song*, *Nature Commun.* **10**, 1770 (April, 2019).
4. (Invited review) “Parity-Time Symmetry Synthetic Lasers: Physics and Devices,” B. Qi, H. Chen, L. Ge*, P. Berini*, R. Ma*, *Adv. Opt. Mat.* **7**, 1900694 (2019).
3. (Invited review) “Modes of random lasers,” J. Andreasen, A. A. Asatryan, L. C. Botten, M. A. Byrne, H. Cao, L. Ge, L. Labonte, P. Sebbah, A. D. Stone, H. E. Tureci, and C. Vanneste, *Advances in Optics and Photonics* **3**, 88-127 (October, 2011).
2. “Rotation-induced asymmetry of far-field emission from optical microcavities,” L. Ge, R. Sarma, and H. Cao, *Optica* **2**, 323-328 (March, 2015).
1. (Invited focus article) “Quantum chaos in optical microcavities: A broadband application,” L. Ge, *EPL* **123**, 64001 (2018).

All Peer-Reviewed Journal Articles

71. (Invited review) “Parity-Time Symmetry Synthetic Lasers: Physics and Devices,” B. Qi, H. Chen, L. Ge*, P. Berini*, R. Ma*, *Adv. Opt. Mat.* **7**, 1900694 (2019).
70. “Time-reversal invariant scaling of light propagation in one-dimensional non-Hermitian systems,” J. Rivero and L. Ge, *Phys. Rev. A* **100**, 023819 (2019).
69. “All-optical control of lead halide perovskite microlasers,” N. Zhang, Y. Fan, K. Wang, Z. Gu, Y. Wang, L. Ge*, S. Xiao*, and Q. Song*, *Nature Commun.* **10**, 1770 (April, 2019).

68. (Invited focus article) "Quantum chaos in optical microcavities: A broadband application," L. Ge, EPL **123**, 64001 (2018).
67. "Transporting optical chirality through the dynamical barriers in optical microcavities," S. Liu, J. Wiersig, W. Sun, Y. Fan, Li Ge, J. Yang, H. Cao, S. Xiao, and Q. Song, Laser Photon. Rev **12**, 1800027 (2018).
66. "Defect states emerging from a non-Hermitian flat band of photonic zero modes," B. Qi, L. Zhang, and L. Ge, Phys. Rev. Lett. **120**, 093901 (March, 2018).
65. "Non-Hermitian lattices with a flat band and polynomial power increase [Invited]," L. Ge, Photonics Research **6**, A10-A17 (March, 2018).
64. "Stable Switching among High-Order Modes in Polariton Condensates," Y. Sun, Y. Yoon, S. Khan, L. Ge, M. Steger, L. N. Pfeiffer, K. West, H. E. Tureci, D. W. Snoke, and K. A. Nelson, Phys. Rev. B **97**, 045303 (January, 2018).
63. (Invited review) "Non-Hermitian photonics based on parity-time symmetry," L. Feng, R. El-Ganainy, and L. Ge, Nature Photon. **11**, 752-762 (December, 2017).
62. "Observation of gain spiking and nonlinear beating of optical frequency comb in a microcavity," Y. Zheng, T. Qin, J. Yang, X. Chen, L. Ge, and W. Wan, Opt. Express **25**, 31140-31147 (December, 2017).
61. "Constructing the scattering matrix for optical microcavities as a nonlocal boundary value problem," L. Ge, Photonics Research **5**, B20 (October, 2017).
60. "Quasi parity-time symmetric microdisk laser," N. Zhang, Z. Gu, K. Wang, N. Yi, M. Li, S. Liu, S. Xiao, L. Ge, Q. Song, Laser Photon. Rev. **11**, 1700052 (September, 2017).
59. "Optical fluxes in coupled PT-symmetric photonic structures," L. Ge, K. G. Makris, L. Zhang, Phys. Rev. A **96**, 023820 (August, 2017).
58. "Anomalous minimum and scaling behavior of localization length near an isolated flat band," L. Ge, Ann. Phys. (Berlin) **527**, 201600182 (August, 2017).
57. "Condensation of thresholds in multimode microlasers," L. Ge, H. Cao, and A. D. Stone, Phys. Rev. A **95**, 023842 (February, 2017).
56. "Symmetry, stability, and computation of degenerate lasing modes," D. Liu, B. Zhen, L. Ge, F. Hernandez, A. Pick, S. Burkhardt, M. Liertzer, S. Rotter, and S. G. Johnson, Phys. Rev. A **95**, 023835 (February, 2017).
55. "Symmetry-protected zero-mode laser with a tunable spatial profile," L. Ge, Phys. Rev. A **95**, 023812 (February, 2017).
54. "Contrasting spectral signatures and sensitivities of CPA-Lasing in a PT-symmetric periodic structure," L. Ge and L. Feng, Phys. Rev. A **95**, 013813 (January, 2017).
53. "Experimental demonstration of spontaneous chirality in a nonlinear microresonator," Q.-T. Cao, H.-M. Wang, C.-H. Dong, H. Jing, R.-S. Liu, X. Chen, L. Ge, Q. Gong, Y.-F. Xiao, Phys. Rev. Lett. **118**, 033901 (January, 2017).
52. "Controlling mode competition by tailoring the spatial pump distribution in a laser," A. Cerjan, B. Redding, L. Ge, S. F. Liew, H. Cao, A. D. Stone, Optics Express **24**, 26006 (November, 2016).
51. "Optical reciprocity induced symmetry in photonic heterostructures and its manifestation in scattering PT symmetry breaking," L. Ge and L. Feng, Phys. Rev. A **94**, 043836 (October, 2016).
50. "Metawaveguide for asymmetric interferometric light-light switching," H. Zhao, W. Fegadolli, J. Yu, Z. Zhang, L. Ge, A. Scherer, and L. Feng, Phys. Rev. Lett. **117**, 193901 (October, 2016).

49. "Non-Hermitian engineering of single mode two dimensional laser arrays," M. H. Teimourpour, L. Ge, D. N. Christodoulides, and R. El-Ganainy, *Sci. Rep.* 6, 33253 (September, 2016).
48. "Anomalous parity-time symmetry transition away from an exceptional point," L. Ge, *Phys. Rev. A* 94, 013837 (July, 2016).
47. "Nonlinear modal interactions in parity-time (PT) symmetric lasers," L. Ge and R. El-Ganainy, *Sci. Rep.* 6, 24889 (April, 2016).
46. "Bosonic condensation and disorder-induced localization in a flat band," F. Baboux, L. Ge, T. Jacqmin, M. Biondi, A. Lemaître, L. Le Gratiet, I. Sagnes, S. Schmidt, H. E. Tureci, A. Amo, and J. Bloch, *Phys. Rev. Lett.* 116, 066402 (February, 2016).
45. "Controlling a microdisk laser by local refractive index perturbation," S. F. Liew, L. Ge, B. Redding, G. S. Solomon, and H. Cao, *Appl. Phys. Lett.* 108, 051105 (January, 2016).
44. "Interaction induced mode switching in microlasers," L. Ge, D. Liu, S. G. Johnson, S. Rotter, H. E. Tureci, A. Cerjan, H. Cao, A. D. Stone, *Optics Express* 24, 41 (January, 2016).
43. "Scattering in PT and RT symmetric multimode waveguides: generalized conservation laws and spontaneous symmetry breaking beyond one dimension," L. Ge, K. Makris, D. Christodoulides, and L. Feng, *Phys. Rev. A* 92, 062135 (December, 2015).
42. "Selectively excitation of laser modes by controlling modal interactions," L. Ge, *Optics Express* 23, 30049 (November, 2015).
41. "Parity-Time symmetry in a flat band system," L. Ge, *Phys. Rev. A* 92, 052103 (November, 2015).
40. "Threshold current reduction and directional emission of deformed microdisk lasers via spatially selective electrical pumping," N. L. Aung, L. Ge, O. Malik, H. E. Tureci, and C. Gmachl, *App. Phys. Lett.* 107, 151106 (October, 2015).
39. "Supersymmetric laser arrays," R. El-Ganainy, L. Ge, M. Khajavikhan and D. Christodoulides, *Phys. Rev. A* 92, 033818 (September, 2015).
38. "Inverse Vernier effect in lasers," L. Ge and H. E. Tureci, *Phys. Rev. A* 92, 013840 (August, 2015).
37. "Optical resonances in rotating dielectric microcavities of deformed shape," R. Sarma, L. Ge, and H. Cao, *JOSA B* 32, 1736-1742 (August, 2015).
36. "Pump-controlled modal interactions in microdisk lasers," S. F. Liew, L. Ge, B. Redding, G. S. Solomon, H. Cao, *Phys. Rev. A* 91, 043828 (April, 2015).
35. "Rotation-induced asymmetry of far-field emission from optical microcavities," L. Ge, R. Sarma, and H. Cao, *Optica* 2, 323-328 (March, 2015).
34. "Rotating optical microcavities with broken chiral symmetry," R. Sarma, L. Ge, J. Wiersig, and H. Cao, *Phys. Rev. Lett.* 114, 53903 (January, 2015).
33. "Anomalous transient amplification of waves in non-normal photonic media," M. K. Makris, L. Ge, and H. E. Tureci, *Phys. Rev. X* 4, 041044 (December, 2014).
32. "Universal output power enhancement in microlasers by selective pumping," L. Ge, O. Malik, and H. E. Tureci, *Nature Photon.* 8, 871-875 (October, 2014).

31. "A scalable numerical approach for the Steady-State Ab-Initio Laser Theory," S. Esterhazy, D. Liu, M. Liertzer, A. Cerjan, L. Ge, M. K. Makris, A. D. Stone, J. M. Melenk, S. G. Johnson, and S. Rotter, *Phys. Rev. A* 90, 023816 (August, 2014).
30. "Parity-time symmetry breaking beyond one dimension: the role of degeneracy," L. Ge and A. D. Stone, *Phys. Rev. X* 4, 031011 (July, 2014).
29. "Rotation-induced Mode Coupling in Open Wavelength-scale Microcavities," L. Ge, R. Sarma, and H. Cao, *Phys. Rev. A* 90, 013809 (July, 2014).
28. "Exceptional points and lasing self-termination in photonic molecules," R. El-Ganainy, M. Khajavikhan, and L. Ge, *Phys. Rev. A* 90, 013802 (July, 2014).
27. "Active control of emission directionality of semiconductor microdisk lasers," S. F. Liew, B. Redding, L. Ge, G. S. Solomon, and H. Cao, *Appl. Phys. Lett.* 104, 231108 (June, 2014).
26. "Manipulation of high-order scattering processes in ultrasmall optical resonators to control far-field emission," B. Redding, L. Ge, Q. H. Song, G. S. Solomon, and H. Cao, *Phys. Rev. Lett.* 112, 163902 (April, 2014).
25. "Breaking of PT-symmetry in bounded and unbounded scattering systems," P. Ambichl, K. G. Makris, L. Ge, Y. D. Chong, A. D. Stone, and S. Rotter, *Phys. Rev. X* 3, 041030 (December, 2013).
24. "Antisymmetric PT-photonic structures with balanced positive and negative index materials," L. Ge and H. E. Tureci, *Phys. Rev. A* 88, 053810 (November, 2013).
23. "Controlling multimode coupling by boundary wave scattering," L. Ge, Q. H. Song, B. Redding, A. Eberspacher, J. Wiersig, and H. Cao, *Phys. Rev. A* 88, 043801 (October, 2013).
22. "Formation of long-lived resonances in hexagonal cavities by strong coupling of superscar modes," Q. H. Song, L. Ge, J. Wiersig, and H. Cao, *Phys. Rev. A* 88, 023834 (August, 2013).
21. "Gain-tunable optomechanical cooling in a laser cavity," L. Ge, S. Faez, F. Marquardt, and H. E. Tureci, *Phys. Rev. A* 87, 053839 (May, 2013).
20. "Extreme output sensitivity to subwavelength boundary deformation in microcavities," L. Ge, Q. H. Song, B. Redding, and H. Cao, *Phys. Rev. A* 87, 023833 (February, 2013).
19. "Local chirality of optical waves in ultrasmall resonators," B. Redding, L. Ge, Q. H. Song, J. Wiersig, G. S. Solomon, and H. Cao, *Phys. Rev. Lett.* 108, 253902 (June, 2012).
18. "Channeling chaotic rays into waveguides for efficient collection of microcavity emission," Q. H. Song, L. Ge, B. Redding, C. Zeng, G. S. Solomon, and H. Cao, *Phys. Rev. Lett.* 108, 243902 (June, 2012).
17. "Pump-induced exceptional points in lasers above threshold," M. Liertzer, L. Ge, C. Cerjan, A. D. Stone, H. E. Tureci, and S. Rotter, *Phys. Rev. Lett.* 108, 173901 (April, 2012).
16. "Conservation relations and anisotropic transmission resonances in one-dimensional PT-symmetric photonic heterostructures," L. Ge, Y. D. Chong, and A. D. Stone, *Phys. Rev. A* 85, 023802 (February, 2012).
15. "Directional waveguide coupling from a wavelength-scale deformed microdisk laser," B. Redding, L. Ge, G. S. Solomon, and H. Cao, *App. Phys. Lett.* 100, 061125 (February, 2012).
14. "Steady-state ab initio laser theory for N-level lasers," A. Cerjan, Y. D. Chong, L. Ge, and A. D. Stone, *Optics Express* 20, 474-488 (December, 2011).
13. "Wavelength-scale deformed microdisk lasers," Q. H. Song, L. Ge, J. Wiersig, J.-B. Shim, J. Unterhinninghofen, A. Eberspacher, W. Fang, G. S. Solomon, and H. Cao, *Phys. Rev. A* 84, 063843 (December, 2011).

12. (Invited review) “Modes of random lasers,” J. Andreasen, A. A. Asatryan, L. C. Botten, M. A. Byrne, H. Cao, L. Ge, L. Labonte, P. Sebbah, A. D. Stone, H. E. Tureci, and C. Vanneste, *Advances in Optics and Photonics* 3, 88-127 (October, 2011).
11. “Unconventional modes in lasers with spatially varying gain and loss,” L. Ge, Y. D. Chong, S. Rotter, H. E. Tureci, and A. D. Stone, *Phys. Rev. A* 84, 023820 (August, 2011).
10. “PT-symmetry breaking and laser-absorber modes in optical scattering systems,” Y. D. Chong, L. Ge, and A. D. Stone, *Phys. Rev. Lett.* 106, 093902 (March, 2011).
9. “Time-reversed lasing and control of absorption,” W. Wan, Y. D. Chong, L. Ge, H. Noh, A. D. Stone, and H. Cao, *Science* 331, 889-892 (February, 2011).
8. “Steady-state ab initio laser theory: generalizations and analytic results,” L. Ge, Y. D. Chong, and A. D. Stone, *Phys. Rev. A* 82, 063824 (December, 2010).
7. “Directional laser emission from a wavelength-scale chaotic microcavity,” Q. Song, L. Ge, A. D. Stone, H. Cao, J. Wiersig, J.-B. Shim, J. Unterhinninghofen, W. Fang, and G. S. Solomon, *Phys. Rev. Lett.* 105, 103902 (August, 2010).
6. “Coherent perfect absorbers: time-reversed lasers,” Y. D. Chong, L. Ge, H. Cao, and A. D. Stone, *Phys. Rev. Lett.* 105, 053901 (July, 2010).
5. “Effects of spatially nonuniform gain on lasing modes in weakly scattering random systems,” J. Andreasen, C. Vanneste, L. Ge, and H. Cao, *Phys. Rev. A* 81, 043818 (April, 2010).
4. “Ab initio self-consistent laser theory and random lasers,” H. E. Tureci, A. D. Stone, L. Ge, S. Rotter, and R. J. Tandy, *Nonlinearity* 22, C1-C18 (Selected for cover illustration, January, 2009).
3. “Quantitative verification of ab initio self-consistent laser theory,” L. Ge, R. J. Tandy, A. D. Stone, and H. E. Tureci, *Optics Express* 16, 16895-16902 (October, 2008).
2. “Strong interactions in multimode random lasers,” H. E. Tureci, L. Ge, S. Rotter, and A. D. Stone, *Science* 320, 643-646 (May, 2008).
1. “Theory of the spatial structure of nonlinear lasing modes,” H. E. Tureci, A. D. Stone, and L. Ge, *Phys. Rev. A* 76, 013813 (July, 2007).

Book Chapters

Chapter 7, “Deformed wavelength-scale microdisk lasers with quantum dot emitters,” in “Quantum Optics with Semiconductor Nanostructures,” Edited by F. Jahnke, Woodhead Publishing, Cornwall, UK (July, 2012).

Editorials

“Optical microcavities: New understandings and developments,” L. Ge, L. Feng, and H. G. L. Schwefel, *Photonics Research* 5, OM1-OM3 (December, 2017).

“Non-Hermitian physics and optics: a fantasy or a new frontier” (in Chinese), L. Ge, *News from Chinese Laser Press* (April, 2017). https://mp.weixin.qq.com/s/JntYSW_5FLqiaqcyP0xIaQ.

Referred Proceedings

31. “Complex Mirror Symmetry in Optics,” L. Ge, *Frontiers in Optics*, JW3A.51 (September, 2018).

30. "Linear Localization of non-Hermitian Photonic Zero Modes," B. Qi and L. Ge, Laser Science, JW3A.92 (September, 2018).
29. "Defect states emerging from a non-Hermitian flat band of photonic zero modes," B. Qi, L. Ge, Frontiers in Optics, JW3A.55 (September, 2017).
28. "Superfluidicity in an optical lattice with a PT symmetric defect," L. Zhang, W. Zhang, L. Ge, Frontiers in Optics, JTU3A.89 (September, 2017) .
27. "Spontaneous chiral symmetry breaking in a nonlinear microresonator," Q. T. Cao, H Wang, C. H. Dong, H. Jing, R. S. Liu, X. Chen, L. Ge, Q. Gong, Y. F. Xiao, CLEO: QELS, FTh3D.7 (June, 2017).
26. "Nonlinear modal interactions in PT-symmetric lasers," L. Ge and R. El-Ganainy, Frontiers in Optics, JW4A.186 (October, 2016).
25. "Scattering in PT and RT symmetric multimode waveguides: Generalized conservation laws beyond 1D," L. Ge, K. Makris, D. Christodoulides, L. Feng, Frontiers in Optics, JTh2A.81 (October, 2016).
24. "Interaction-induced mode switching and threshold condensation in steady-state microlasers," L. Ge, Progress in Electromagnetic Research Symposium (PIERS), 2614 (August, 2016).
23. "Anomalous parity-time symmetry transition away from an exceptional point," L. Ge, Progress in Electromagnetic Research Symposium (PIERS), 256 (August, 2016).
22. "Giant amplification of light in non-hermitian photonic materials," H. E. Tureci, K. G. Makris, and L. Ge, Proc. SPIE 9546, Active Photonic Materials VII, 95461I (September, 2015).
21. "Coherent perfect absorbers and coherent enhancement of absorption," A. D. Stone, H. Cao, Y. Chong, L. Ge, S. Popoff, and A. Goetschy, CLEO/QELS, FW1C.5 (June, 2015).
20. "Supersymmetric laser arrays," R. El-Ganainy, M. Khajavikhan, D. N. Christodoulides, and L. Ge, CLEO/QELS, FTh3D.5 (June, 2015).
19. "Active control of emission frequency and directionality of semiconductor microdisk lasers," S. F. Liew, B. Redding, L. Ge, G. S. Solomon, and H. Cao, Frontiers in Optics, LTh4I.3 (October, 2014).
18. "Anomalous transient amplification in lossy waveguides," K. Makris, L. Ge, and H. E. Tureci, CLEO/QELS, JTU4A.22 (June, 2014).
17. "Exploring far-field pattern of asymmetric open microcavities for sensitive rotation detection," R. Sarma, L. Ge, J. Wiersig, and H. Cao, CLEO/QELS, JTU4A.96 (June, 2014).
16. "Effect of rotation on resonant modes of deformed dielectric microcavities," R. Sarma, L. Ge, and H. Cao, CLEO/QELS, CM1F.7 (June, 2013).
15. "Directional waveguide coupling from a wavelength-scale deformed microdisk," B. Redding, L. Ge, G. S. Solomon, and H. Cao, CLEO/QELS, CM1M.4 (June, 2012).
14. "TUTORIAL: Laser emission and coherent control of absorption in complex and random systems," A. D. Stone, Y. Chong, L. Ge, and H. E. Tureci, Frontiers in Optics, FWF1 (October, 2011).
13. "Scattering phenomena in PT-symmetric optical systems," Y. Chong, L. Ge, and A. D. Stone, CLEO/QELS, QMA6 (June, 2011).
12. "Time-reversed Lasing and Control of Absorption in a Two-channel Coherent Perfect Absorber," W. Wan, Y. Chong, L. Ge, H. Noh, A. D. Stone, and H. Cao, CLEO/QELS, QThS6 (June, 2011).

11. "The smallest deformed disk with unidirectional output," Q. Song, L. Ge, J. Wiersig, G. S. Solomon, A. D. Stone, and H. Cao, CLEO/QELS, CMI2 (June, 2011).
10. "Coherent perfect absorption and anomalous scattering in balanced gain/loss structures," Y. Chong, L. Ge, A. D. Stone, Frontiers in Optics, PDPB9 (October, 2010).
9. "Observation of two-port coherent perfect absorber," W. Wan, Y. Chong, L. Ge, H. Noh, A. D. Stone, H. Cao, Frontiers in Optics, PDPC11 (October, 2010).
8. "Coherent perfect absorbers: Time-reversed lasers," Y. Chong, L. Ge, H. Cao, and A. D. Stone, CLEO/QELS, QPDA5 (June, 2010).
7. "Control random laser modes by local pumping," J. Andreasen, C. Vanneste, L. Ge, and H Cao, OPTO, 759713-759713-17 (January, 2010).
6. "Ab initio semiclassical multimode lasing theory of chaotic cavity lasers," L. Ge, H. E. Tureci, S. Rotter, A. D. Stone, Frontiers in Optics, FWC2 (October, 2008).
5. "Theory of diffusive random lasers," A. D. Stone, H. E. Tureci, L. Ge, and S. Rotter, Frontiers in Optics, FWS2 (October, 2008).
4. "Comparison of ab initio laser theory with exact simulation," R. J. Tandy, L. Ge, and A. D. Stone, Frontiers in Optics, FTuI2 (October, 2008).
3. "Theory of the spatial structure of nonlinear modes in random lasers," H. E. Tureci, L. Ge, S. Rotter, and A. D. Stone, Frontiers in Optics, FThO2 (October, 2007).
2. "Theory of the spatial structure of non-linear modes in novel and complex laser cavities," A. D. Stone, H. E. Tureci, L. Ge, and S. Rotter, ICTON'07 9th International Conference on Transparent Optical Networks (July, 2007).
1. "Theory of the spatial structure of non-linear modes in conventional and random lasers," H. E. Tureci, L. Ge, S. Rotter, and A. D. Stone, Photonic Metamaterials: From Random to Periodic, ThC2 (June, 2007)

MEDIA COVERAGE

There were more than 300 reviews and news coverages of my work. Please find the representative ones below.

On the NSF CAREER award

1. CUNY Graduate Center "Spotlight on Faculty" (February, 2019)
2. OSPR Digest, February Issue, College of Staten Island (February, 2019)
3. "Five CUNY Professors Receive NSF Career Awards, One Of Nation's Most Highly Sought Research Honors," CUNY Communications (April, 2019)

On "Non-Hermitian photonics based on parity-time symmetry"

1. "Turning loss into gain," Nature Photonics 11, 741 (2017).

On NSF Grant "Investigation of Rotation-Time and Inversion-Time Symmetries in Photonic Materials"

1. 2016 Annual Report of the Research Foundation of CUNY (Fall, 2017)

On Spontaneous Chiral Symmetry Breaking in a Microcavity

1. "Physicists Observe Spontaneous Symmetry Breaking In An Optical Microcavity," Phys.org, Jan, 2017.
2. "Physicists Observe Spontaneous Symmetry Breaking In An Optical Microcavity," Photonics Online, Jan, 2017.

On Asymmetric Coherent Perfect Absorption (Full list available upon request)

1. "Focus: Light Switched Off by Weaker Beam," Physics, October, 2016.
2. "Metawaveguide enables light-light switching using less energy," New Electronics, October, 2016.
3. "Weakness is good... when controlling light," Phys.org, October, 2016.
4. "Weakness is good... when controlling light," Science Daily, October, 2016.
5. "All-Optical Switching on a Budget," Optics and Photonics News, October, 2016.

On New Scheme of Rotation Detection (Full list available upon request)

1. "Light-powered gyroscope will be world's smallest", Economic Times, April, 2015.
2. "Light-powered gyroscope is world's smallest: Promises a powerful spin on navigation", Optical Society of America, April, 2015.
3. "New technique signals advent of world's smallest light-powered gyroscope", NDTV, April, 2015.
4. "Light-powered gyroscope is world's smallest: Promises a powerful spin on navigation", Phys.org, April, 2015.
5. "Reinvented optical gyroscope smaller, more sensitive", Photonics, April, 2015.
6. "Reinvented optical gyroscope smaller, more sensitive", Photonic Spectra, July, 2015 (Selected as "Top 10 articles" of 2015)

On Laser Power Enhancement with Less Energy Consumption (Full list available upon request)

1. "Enabling the right modes for certain lasers could increase efficiency 100 to 10,000-fold", Laser Focus World, October, 2014.
2. "Turning loss to gain: Cutting power could dramatically boost laser output", Science Daily, October, 2014.
3. "Reducing power emitted by lasers may increase its output", China Topix, October, 2014.
4. "Turning loss to gain: cutting power could boost laser output", Princeton News, October, 2014.

On Laser Self-Termination with More Input Energy (Full list available upon request)

1. "Strange physics turns off laser", NSF News, June, 2014.
2. "Strange physics turns off laser", Princeton News, June, 2014.
3. "More is less: increased voltage switches off microlasers", Photonics, June, 2014.
4. "Paradoxical laser system shuts off with energy boost", Interference Technology, June, 2014.

On Coherent Perfect Absorption (Full list available upon request)

1. "Scientists build the world's first anti-laser," BBC News, Feb 2011.
2. "A Dazzling Show Inside a Laser, but a Vacuum of Light Outside," New York Times, Feb 2011.
3. "Scientists Invent World's First 'Anti-Laser'," Fox News, Feb 2011.
4. "Scientists build first 'antilaser'," Reuters, Feb 2011.
5. "Beam Bagged: 'Reverse Laser' Functions as Near-Perfect Light Absorber," Scientific America, Feb, 2011.
6. "'Anti-Laser' Would Absorb the Light a Laser Shoots out," Discover, Feb 2011.
7. "Laser science: Suckers for light," Nature 467, 37 (Feb, 2010).
8. "Physicists reverse the laser," Nature (doi:10.1038/news.2011.104).
9. "Uncovering superabsorption," Nature Photonics 5, 252 (2011).

On Steady-state ab-initio laser theory (Full list available upon request)

1. "A Unified Picture of Laser Physics," Science 320, 623 (May, 2008).
2. "Unified Laser Theory," Science Roundup, May 2008.
3. "A unified picture of laser physics," Physics Today, May 2008.
4. "Laser Theory: Ten-year-old embarrassment leads to unified laser theory," Laser Focus World, July 2008.

OTHER PROFESSIONAL ACTIVITIES

Activities as Editor

1. Leading guest editor for the special issue on "Optical Microcavities" in Photonics Research (published by Optical society of America and Chinese Laser Press, June-November, 2017).
2. Associate Editor for Photonics Research (April, 2018 to current)

Activities as Reviewer/Panelist

33 scientific journals

Springer: Nature, Nature Photonics, Nature Nanotechnology, Nature Communications, Light: Science and Applications, Communications Physics, Scientific Reports, Applied Physics B;
AAAS: Science;
APS: Physical Review Letters, Physical Review A, Physical Review B, Physical Review E, Physical Review Applied;
OSA: Optics Letters, Optics Express, Photonics Research;
AIP: Applied Physics Letters, APL Photonics, Journal of Applied Physics;
IOP: New Journal of Physics, Europhysics Letters, Journal of Physics A, Journal of Physics B, Journal of Optics;
IEEE: IEEE Journal of Quantum Electronics;
RS: Proceedings of the Royal Society A,
RSC: Nanoscale;
Wiley: Annalen der Physik, Lasers and Photonics Reviews;
Elsevier: Annals of Physics;
Taylor & Francis: Advances in Physics: X;
De Gruyter: Nanophotonics.

Conferences

Session Chair, 15th international conference Analytic and algebraic methods in physics, Prague, Czech Republic (September, 2018)
Session Chair, Max-Planck Workshop on Synthetic Non-Hermitian Photonic Structures, Dresden, Germany (August, 2018).
Session Chair, Non-Hermitian Physics - PHHQ XVIII, International Center for Theoretical Sciences, Bangalore, India (June, 2018).
Reviewer, 26th Wireless and Optical Communications Conference (WOCC 2017), New Jersey (April, 2017).
Session Chair, Parity-time Symmetry Synthetic Metamaterials at PIERS'16, Shanghai, China (August, 2016).

National Science Foundation

Proposal reviewer, Division of Atomic, Molecular, and Optical Physics – Theory (January, 2016)

Austrian Science Fund

Proposal reviewer (October, 2018)

Italian Ministry of Education, Universities and Research

Proposal reviewer, Fundamental Research (March, 2018)

Korea-U.S. Science Cooperation Center

Proposal reviewer (December, 2018)

South Africa National Research Foundation

Rating reviewer (September, 2019)

National Science Center, Poland

Proposal reviewer (September, 2019)

PSC-CUNY

Proposal reviewer, PSC-CUNY Cycle 46 (2015) and Cycle 45 (2014)

McGraw-Hill Education

Focus group panelist on Challenges in Teaching Sciences (February, 2016)

Patents

“Controlling absorption of light in a cavity,” A. D. Stone, Y. D. Chong, L. Ge, and H. Cao, WO/2011/001253.

Lectures and Talks

57. (Invited) “Parity-time symmetry breaking in a synthetic dimension,” FoNLO’19, Dayton, Ohio (August, 2019)
56. (Invited) “Chiral symmetry in non-Hermitian systems,” META’19, Lisbon, Portugal (July, 2019)
55. (Invited) “Non-Hermitian Photonics based on Quantum-Inspired Symmetries,” Workshop on Mesoscopic Quantum Physics and beyond, Yale Quantum Institute, New Haven (June, 2019)
54. (Invited) “Non-Hermitian Photonics based on quantum-inspired symmetries,” Annual meeting of Korean Physical Society, Daejeon, Korea (April, 2019)
53. “Non-Hermitian Photonics based on quantum-inspired symmetries,” Seminar at the Center for Theoretical Physics of Complex Systems, Daejeon, Korea (April, 2019)
52. (Invited) “Non-Hermitian chiral symmetry,” Non-Hermitian Physics - PHHQP XIX, Tsinghua International Mathematics Forum, Sanya, China (March, 2019)
51. (Invited) “Exploring non-Hermitian symmetries and topology using synthetic photonic materials,” Condensed matter seminar, Case Western Reserve University, Cleveland, Ohio (Feb, 2019)
50. (Invited) “Non-Hermitian photonics based on quantum-inspired symmetries,” Physics Colloquium, Washington State University, Pullman, Washington (Feb, 2019)
49. (Invited) “Non-Hermitian photonics with novel symmetries,” Physics seminar, Hunter College, CUNY, New York (October, 2018)
48. (Invited) “Complex mirror symmetry and its realization in photonics,” 15th international conference Analytic and algebraic methods in physics, Prague, Czech Republic (September, 2018).
47. (Invited) “Non-Hermitian symmetries and photonic zero modes,” Max-Planck Workshop on Synthetic Non-Hermitian Photonic Structures, Dresden, Germany (August, 2018).
46. (Invited) “Non-Hermitian particle-hole symmetry, flat band, and linear localization,” Nonlinear Localization in Lattices, Anargyreios and Korgialeneios School of Spetses, Greece (June, 2018).
45. (Invited) “Non-Hermitian particle-hole symmetry, flat band, and linear localization,” Non-Hermitian Physics - PHHQP XVIII, International Center for Theoretical Sciences, Bangalore, India (June, 2018).
44. (Invited) “Scattering matrix of optical microcavities and its conservation relations with bosonic antilinear symmetries,” 2nd International Workshop on Asymmetric Microcavity and Wave Chaos, Fuzhou, China (May, 2018).
43. (Invited) “Novel non-Hermitian photonics based on quantum-inspired symmetries,” Zhige Forum for the next generation of Physicists, Peking University, China (May, 2018).
42. (Invited) “Novel non-Hermitian photonics inspired by quantum symmetries,” Sichuan University, China (December, 2017).
41. (Invited) “Non-Hermitian particle-hole symmetry and its implications,” 642nd WE-Heraeus Seminar, Bad Honnef, Germany (May, 2017).

40. (Invited) “Novel non-Hermitian photonics inspired by quantum symmetries,” Physics seminar, NYU Shanghai, Shanghai, China (March, 2017).
39. (Invited) “Optical reciprocity induced symmetry in photonic heterostructures and its manifestation in scattering PT symmetry breaking,” Workshop on asymmetry microcavity and wave chaos, Beijing, China (March, 2017).
38. “Symmetry-protected zero-mode laser with a tunable spatial profile,” APS March Meeting, New Orleans, LA (March, 2017).
37. (Invited) “Modal competition and other nonlinear phenomena in PT-symmetric photonics,” Mathematics Colloquium, University of Vermont, Burlington, VT (October, 2016).
36. (Invited) “Novel modal behaviors in microlasers,” Frontier in Science Seminar Series, School of Physics, Peking University, Beijing, China (August, 2016).
35. (Invited) “Pattern formation and strong nonlinear interactions in exciton-polariton condensates,” Nanophotonics and Synthetic Metamaterials Workshop, Nanjing University, Nanjing, China (August, 2016).
34. (Invited) “Interaction-induced mode switching and threshold condensation in steady-state microlasers,” PIERS’16, Shanghai, China (August, 2016).
33. (Invited) “Anomalous parity-time symmetry transition away from an exceptional point,” PIERS’16, Shanghai, China (August, 2016).
32. (Invited) “Scattering in PT and RT symmetric multimode waveguides: Generalized conservation laws beyond 1D,” META’16, Malaga, Spain (July, 2016).
31. (Invited) “Quantum effects in parity-time symmetry breaking,” International Workshop on Non-Hermitian Photonics in Complex Media, Crete, Greece (June, 2016).
30. “Energy dependence and scaling property of localization length near a gapped flat band,” APS March Meeting, Baltimore, MD (March, 2016).
29. (Invited) “Pattern formation and strong nonlinear interactions in exciton-polariton Condensates,” New York City College of Technology (October, 2015).
28. (Invited) “Rotation-induced asymmetry of far-field emission from optical microcavities,” IEEE Photonics Conference, Reston, VA (October, 2015).
27. “Coherent and incoherent control of light,” Survey of Research Opportunities, CUNY Graduate Center (September, 2015).
26. “Physics at College of Staten Island,” CUNY Graduate Center Orientation, New York, NY (August, 2015).
25. (Invited) “Spontaneous symmetry breaking of the scattering matrix in a PT symmetric multimode waveguide”, META’15, the 6th International Conference on Metamaterials, Photonic Crystals and Plasmonics, New York, NY (August, 2015).
24. (Invited) “Parity-time symmetry breaking beyond one dimension: the role of degeneracy”, META’15, the 6th International Conference on Metamaterials, Photonic Crystals and Plasmonics, New York, NY (August, 2015).
23. “Supersymmetric laser arrays”, CLEO, San Jose, CA (May, 2015).

22. (Invited) “Selective excitation by active transformation optics in media with strong modal interactions”, 10th IMACS International Conferences on Nonlinear Evolutions and Wave Phenomena, Athens, GA (April, 2015).
21. “Novel effects of light in non-Hermitian photonic systems”, College of Staten Island, New York, NY (April, 2015).
20. “Controlling modal interactions in lasers for frequency selection and power enhancement”, APS March Meeting, San Antonio, TX (March, 2015).
19. “Lasing mode selection by active transformation optics”, Photonic West, San Francisco, CA (February, 2015).
18. “Rotation-induced asymmetry of far-field emission from optical microcavities”, Frontier in Optics, OSA, Tucson, AZ (October, 2014).
17. “Coherent and Incoherent Control in Non-Hermitian Photonic Media”, Survey of Research Opportunities, CUNY Graduate Center (September, 2015).
16. “Interaction-induced mode switching in lasers and other nonlinear media”, 2nd Princeton Workshop on Classical, Semi-classical and Quantum Noise, Princeton, NJ (April, 2014).
15. “Pattern formation and strong nonlinear interactions in exciton-polariton condensates”, APS March Meeting, Denver, CO (March, 2014).
14. “Non-Hermiticity and strong interactions in complex photonic media”, Wesleyan University, Middletown, CT (December, 2013).
13. “Lasers and ‘anti-lasers’ in complex photonic media”, Michigan Technological University, Houghton, MI (November, 2013).
12. “Coherent and incoherent control of light”, Survey of Research Opportunities, CUNY Graduate Center (September, 2013).
11. “Pump-induced exceptional points in lasers above threshold”, Princeton-TAMU Summer School, Casper, WM (July, 2013).
10. (Invited) “Antisymmetric PT-photonic structures with balanced positive and negative index materials” Israel Science Foundation workshop on light-matter interaction, Israel (May, 2013)
9. (Invited) “Pump-induced exceptional points in lasers above threshold”, 8th IMACS International Conferences on Nonlinear Evolutions and Wave Phenomena, Athens, GA (April, 2013)
8. “Gain-enhanced optical cooling in cavity optomechanics”, APS March Meeting, MD (March, 2013) “Quantum theory of optomechanical interaction in the presence of an active medium”, Princeton-TAMU Summer School, Casper, WM (July, 2012).
7. “Pump induced mode selection and power increase in microcavity lasers”, MIRTHER Summer Workshop, Princeton, NJ (July, 2012).
6. “Quantum theory of optomechanical interaction in the presence of an active medium”, Optomechanics on the Hudson, NY (May, 2012).
5. “Unconventional modes in lasers with spatially varying gain profile”, MIRTHER Summer Workshop, Princeton, NJ (July, 2011).
4. (Invited) “Lasing in PT-symmetric cavities”, 7th IMACS International Conferences on Nonlinear Evolutions and Wave Phenomena, Athens, GA (April, 2011).

3. “Probing random lasers using ab initio self-consistent theory”, 40th Winter Colloquium on the Physics of Quantum Electronics, Snowbird, Utah (January, 2010).
2. “Ab initio semiclassical multimode lasing theory of chaotic cavity lasers”, Frontiers in Optics, Rochester, NY (October, 2008).
1. (Invited) “First principles prediction and control of lasing in micro-cavities”, SPIE Photonics West, San Jose, CA (February, 2008).

Current Membership in Professional Societies

American Physical Society, Optical Society of America

STUDENT MENTORING

Graduate Students

1. Jose Rivero, “Topological photonics with unique non-Hermitian symmetries”
CUNY graduate student thesis (Summer 2018 – current)
2. Bingkun Qi, “Topological edge states in a rotating photonic medium”
CUNY graduate student research (Summer, 2016 – Summer, 2019)
3. Prathmesh V. Deshmukh, “Entangled photons through a Sagnac interferometer”
CUNY graduate student rotation (Fall 2018)
4. Patrick Serafin, “Jaynes-Cummings model in non-Hermitian photonics”
CUNY graduate student thesis (Spring 2018)
5. Aneek Biswas, “Constant intensity modes and their applications”
CUNY graduate student rotation (Fall 2017)
6. Daniel Morales, “Critical coupling and coherent perfect absorption”
CUNY graduate student rotation (Fall 2016)
7. Mandeep Khatoniar, “Self-trapping and its non-Hermitian extensions”
CUNY graduate student rotation (Fall 2016)
8. Yiming Huang, “Spontaneous symmetry breaking in rotation-time symmetric systems”
CUNY graduate student rotation (Fall 2015)
9. Jie Gu, “Resonances in two-dimensional microcavities using a finite difference method”
CUNY graduate student rotation (Fall 2014)
10. Xujun Ma, “Conservation relation in PT-symmetric systems”
CUNY graduate student rotation (Fall 2014)

Undergraduate Students

1. Piotr Marciniak, “Structural color and photonic crystals”
Undergraduate research fellowship (Spring 2018 – Spring 2019)
2. Denis Ladyzhensky, “Temporal evolution of coupled nonlinear systems”
Undergraduate research fellowship (Fall 2017)

3. Mario Bnyamin, “Coherent control of optical absorption using energy efficient structures”
CUNY Coordinated Undergraduate Education (CUE) initiative (Spring 2016)

4. Rachel Revzin, “Conservation relation in PT-symmetric multimode waveguides”
Undergraduate summer research fellowship (Summer 2015).

Visiting Students

1. Lingxuan Zhang, “Beam dynamics and superfluidicity in non-Hermitian photonic lattices,”
Visiting graduate student from Wuhan Institute of Optical Science & Technology, China (Fall 2016 – current)

TEACHING

Graduate Level

1. PHYS 85200 “Laser Physics and Nonlinear Optics” (Spring 2018)

Undergraduate Level

1. PHY 356 “Theory of Electromagnetic Radiation” (Spring 2014 – current).

2. PHY 160 “General Physics II” (Spring 2019).

3. PHY 120 “General Physics I” (Fall 2015).

4. ELT 224 “Electrical Circuit Analysis” (Fall 2013).

5. ENS 100 “Introduction to Engineering” (Fall 2013 and Spring 2014).