

# CURRICULUM VITAE

**Anh-Thu Le** (aka Thu A. Le)

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## 1. Academic experience

- Ph.D. in Physics, Belarusian State University, Minsk, Republic of Belarus, 1994  
Dissertation title: “*Non-relativistic and Relativistic Coulomb Green functions and their application in atomic physics*”  
Advisor: Prof. L. I. Komarov
- B.S. in Physics (*with highest honors*, GPA=5.0/5.0), Belarusian State University, Minsk, Republic of Belarus, 1990

## 2. Work experience

09/2021 – present: Assistant Professor, Dept. of Physics, University of Connecticut

09/2018 – 08/2021: Assistant Professor, Dept. of Physics, Missouri University of Science & Technology

01/2018 – 08/2018: Research Professor, Dept. of Physics, Kansas State University

08/2014 – 01/2018: Associate Research Professor, Dept. of Physics, Kansas State University

06/2006 – 08/2014: Assistant Research Professor, Dept. of Physics, Kansas State University

09/2003 – 06/2006: Research associate, Dept. of Physics, Kansas State University

09/2001 – 09/2003: Visiting scientist, Dept. of Physics, Kansas State University

09/2000 – 09/2001: Post-doctoral Fellow with Prof. T. T. Gien

Dept. of Physics, Memorial University of Newfoundland, Canada

5/1998 – 5/1999: Guest Scientist with Prof. P. Fulde

Max Planck Institute for Physics of Complex Systems, Dresden, Germany

1/1995 – 9/2000: Research Fellow

Institute of Physics, National Academy of Science & Technology, Hanoi, Vietnam

## 3. Scholarly contributions

Over 100 papers with over **6,650** citations and ***h-index*=45** (as of 03/2025, according to [Google Scholar](#)).

**Science**: 1 (I'm the leading theorist)

**Nature Communications**: 4 (I'm the leading theorist in two papers)

**Phys. Rev. Lett.**: 11 (3 as 1<sup>st</sup> author and 2 as 2<sup>nd</sup> author)

**PNAS (USA)**: 1

**Invited reviews** (in J. Phys. B): 2 (1<sup>st</sup> author and 2<sup>nd</sup> author)

### 3.1 Books

1. C. D. Lin, **A.-T. Le**, C. Jin, and H. Wei, *Attosecond and Strong-Field Physics: Principles and Applications*, Cambridge University Press, 2018, ISBN: 9781107197763, 415 pages -- a graduate level textbook; DOI: <https://doi.org/10.1017/9781108181839>

### 3.2 Peer-reviewed publications

1. P. H. Tran, V. H. Hoang, and **A.T. Le**, *Quantum pathways interference in laser-induced electron diffraction revealed by a novel semiclassical method*, submitted to Phys. Rev. A; [arXiv:2408.12721](https://arxiv.org/abs/2408.12721)

2. G. R. Harrison, T. Saule, R. E. Goetz, G. N. Gibson, **A.-T. Le**, and C. A. Trallero-Herrero, *Generation and control of non-local quantum equivalent extreme ultraviolet photons*, submitted to Nature Photonics; [arXiv:2305.17263](https://arxiv.org/abs/2305.17263)
3. S. Xue, W. Yang, P. Li, Y. Zhang, P. Ding, S.-F. Zhao, H. Du, and **A.T. Le**, *Coherent post-ionization dynamics of molecules based on adiabatic strong-field approximation*, [Phys. Rev. A \*\*111\*\*, 013124 \(2025\)](https://doi.org/10.1103/PhysRevA.111.013124); [arXiv:2311.11242](https://arxiv.org/abs/2311.11242)
4. M. Davino, E. McManus, T. Saule, P.H. Tran, A. F. Ordóñez, G. Gibson, **A.-T. Le**, C. A. Trallero-Herrero, *Symmetries in 3D photoelectron momentum spectroscopy as precursory methods for dichroic and enantiosensitive measurements*, [Phys. Rev. Applied \*\*23\*\*, 014022 \(2025\)](https://doi.org/10.1103/PhysRevApplied.23.014022); [arXiv:2406.14705](https://arxiv.org/abs/2406.14705)
5. L. He, C. H. Yuen, Y. He, S. Sun, E. Goetz, **A.T. Le**, Y. Deng, C. Xu, P. Lan, P. Lu, and C.D. Lin, *Ultrafast picometer-resolved molecular structure imaging by laser-induced high-order harmonics*, [Phys. Rev. Lett. \*\*133\*\*, 023201 \(2024\)](https://doi.org/10.1103/PhysRevLett.133.023201).
6. L. He, Y. He, S. Sun, E. Goetz, **A.-T. Le**, X. Zhu, P. Lan, P. Lu, C. D. Lin, *Attosecond probing and control of charge migration in carbon-chain molecule*, [Advanced Photonics \*\*5\*\*, 056001 \(2023\)](https://doi.org/10.1103/PhysRevApplied.5.056001).
7. P Zhang, VH Hoang, C Wang, TT Luu, V Svoboda, **A.-T. Le**, HJ Wörner, *Effects of Autoionizing Resonances on Wave-Packet Dynamics Studied by Time-Resolved Photoelectron Spectroscopy*, [Phys. Rev. Lett. \*\*130\*\*, 153201 \(2023\)](https://doi.org/10.1103/PhysRevLett.130.153201).
8. Troß, J., Pathak, S., Summers, A., Rompotis, D., Erk, B., Passow, C., Manschwetus, B., Boll, R., Grychtol, P., Bari, S., Kumarappan, V., **Le, A.-T.**, Jin, C., Trallero, C., & Rolles, D., *High harmonic generation in mixed XUV and NIR fields at a free-electron laser*, [J. Opt., \*\*24\*\*, 025502 \(2022\)](https://doi.org/10.1364/JOpt.24.025502).
9. X. Zhao, S. Li, T. Driver, V. H. Hoang, **A. T. Le**, J. P. Cryan, A. Marinelli, and C. D. Lin, *Characterization of single shot attosecond pulses with angular streaking photoelectron spectra*, [Physical Review A, \*\*105\*\*, 013111 \(2022\)](https://doi.org/10.1103/PhysRevA.105.013111).
10. S Xue, S. Yue, H. Du, B. Hu, and **A. T. Le**, *Vibronic coherence and quantum beats of O<sub>2</sub><sup>+</sup> based on laser pump-probe dissociation dynamics*, [Phys. Rev. A \*\*104\*\*, 013101 \(2021\)](https://doi.org/10.1103/PhysRevA.104.013101)
11. A. Sanchez, K. Amini, S. J. Wang, T. Steinle, B. Belsa, J. Danek, **A.T. Le**, X. Liu, R. Moshhammer, T. Pfeiffer, M. Richter, J. Ullrich, S. Grafe, C.D. Lin, and J. Biegert, *Molecular structure retrieval directly from laboratory-frame photoelectron spectra in laser-induced electron diffraction*, [Nature Communications \*\*12\*\*, 1520 \(2021\)](https://doi.org/10.1038/s42005-021-01520-1);
12. B. Belsa, K. Amini, X. Liu, A. Sanchez, T. Steinle, J. Steinmetzer, **A.T. Le**, R. Moshhammer, T. Pfeifer, J. Ullrich, R. Moszynski, C.D. Lin, S. Grafe, and J. Biegert, *Laser-induced electron diffraction of the ultrafast umbrella motion in ammonia*, [Structural Dynamics \*\*8\*\*, 014301 \(2021\)](https://doi.org/10.1103/PhysRevApplied.8.014301) .
13. V.-H. Hoang and **A.T. Le**, *Factorization of high-harmonic generation yields in impurity-doped materials*, [Phys. Rev. A \*\*102\*\*, 023112 \(2020\)](https://doi.org/10.1103/PhysRevA.102.023112); [arXiv:1911.11300](https://arxiv.org/abs/1911.11300).
14. C. Jin, S.J. Wang, S.F. Zhao, **A.T. Le**, C.D. Lin, *Robust control of minima of high-order harmonics by fine-tuning the alignment of CO<sub>2</sub> molecules for shaping attosecond pulses and probing molecular alignment*, [Phys. Rev. A \*\*102\*\*, 013108 \(2020\)](https://doi.org/10.1103/PhysRevA.102.013108);
15. X. Liu, K. Amini, T. Steinle, A. Sanchez, M. Shaikh, B. Belsa, J. Steinmetzer, **A.T. Le**, R. Moshhammer, T. Pfeifer, J. Ullrich, R. Moszynski, C.D. Lin, S. Grafe, J. Biegert, *Imaging an isolated water molecule using a single electron wave packet*, [J. Chem. Phys. \*\*151\*\*, 024306 \(2019\)](https://doi.org/10.1063/1.5132306);
16. Y. Malakar, W.L. Pearson, M. Zohrabi, B.Kaderiya, K. Raju, F.Ziaee, S. Xue, **A.T. Le**, I. Ben-Itzhak, D. Rolles, A. Rudenko, *Time-resolved imaging of bound and dissociating nuclear wave packets in strong-field ionized iodomethane*, [Phys. Chem. Chem. Phys. \*\*21\*\*, 14090-14102 \(2019\)](https://doi.org/10.1063/1.5132306);
17. K. Amini, M. Sclafani, T. Steinle, **A.T. Le**, A. Sanchez, C. Muller, J. Steinmetzer, L. Yue, J.R.M. Saavedra, M. Hemmer, M. Lewenstein, R. Moshhammer, T. Pfeifer, M.G. Pullen, J. Ullrich, B. Wolter, R. Moszynski, F.J.G. de Abajo, C.D. Lin, S. Grafe, and J. Biegert, *Imaging the Renner-Teller effect using laser-induced electron diffraction*, [PNAS \*\*116\*\*, 8173-8177 \(2019\)](https://doi.org/10.1073/pnas.1911177116).
18. Lixin He, Pengfei Lan, **A.-T. Le**, Baoning Wang, Bincheng Wang, Xiaosong Zhu, Peixiang Lu, and C. D. Lin, *Real-time observation of molecular spinning with angular high-harmonic spectroscopy*, [Phys. Rev. Lett. \*\*121\*\*, 163201 \(2018\)](https://doi.org/10.1103/PhysRevLett.121.163201).

19. C. D. Lin, **A.T. Le**, C. Jin, and H. Wei, *Elements of the Quantitative Rescattering Theory*, [J. Phys. B \*\*51\*\*, 104001 \(2018\)](#)
20. S. Xue, H. Du, B. Hu, C. D. Lin, and **A.T. Le**, *Following coherent multichannel nuclear wave packets in pump-probe studies of O<sub>2</sub> with ultrashort laser pulses*, [Phys. Rev. A \*\*97\*\*, 043409 \(2018\)](#)
21. A. Alharbi, A. Boguslavskiy, D. Austin, N. Thire, D. Wood, P. Hawkins, F. McGrath, A. S. Johnson, B. Schmidt, F. Legare, J.P. Marangos, **A.T. Le**, and R. Bhardwaj, *Femtosecond Laser Mass Spectrometry and HHG Spectroscopy of Xylene Isomers*, [Scientific Reports \*\*8\*\*, 3789 \(2018\)](#)
22. X. Wang, **A.-T. Le**, Z. Zhou, H. Wei, and C.D. Lin, *Theory of retrieving orientation-resolved molecular information using time-domain rotational coherence spectroscopy*, [Phys. Rev. A \*\*96\*\*, 023424 \(2017\)](#);
23. V.-H. Hoang, V.-H. Le, C.D. Lin, and **A.T. Le**, *Retrieval of target structure information from laser-induced photoelectrons by few-cycle bicircular laser fields*, [Phys. Rev. A \*\*95\*\*, 031402\(R\) \(2017\)](#);
24. S. Zigo, **A.-T. Le**, P. Timilsina, and C.A. Trallero-Herrero, *Ionization Study of Isomeric Molecules in Strong-field Laser Pulses*, [Scientific Reports \*\*7\*\*, 42149 \(2017\)](#);
25. V.-H. Hoang, V.-H. Le, S.F. Zhao, and **A.T. Le**, *Influence of permanent dipole and dynamic core-electron polarization on tunneling ionization of polar molecules*, [Phys. Rev. A \*\*95\*\*, 023407 \(2017\)](#);
26. B.P. Wilson, K.D. Fulfer, S. Mondal, X. Ren, J. Tross, E.D. Poliakoff, J. Jose, **A.-T. Le**, R. R. Lucchese, C. Trallero-Herrero, *High-order harmonic generation from SF<sub>6</sub>: Deconvolution of macroscopic effect*, [J. Chem. Phys. \*\*145\*\*, 224305 \(2016\)](#);
27. B. Wolter, M. G. Pullen, **A.-T. Le**, M. Baudisch, K. Doblhoff-Dier, A. Senftleben, M. Hemmer, C. D. Schröter, J. Ullrich, T. Pfeifer, R. Moshhammer, S. Gräfe, O. Vendrell, C. D. Lin, and J. Biegert, *Ultrafast electron diffraction imaging of bond breaking in di-ionized acetylene*, [Science \*\*354\*\*, 308-312 \(2016\)](#);
28. N.T. Nguyen, R.R. Lucchese, C.D. Lin, and **A.T. Le**, *Probing and extracting structure of vibrating SF<sub>6</sub> molecules with inner-shell photoelectrons*, [Phys. Rev. A \*\*93\*\*, 063419 \(2016\)](#);
29. M.G. Pullen, B. Wolter, **A.T. Le**, M. Baudisch, M. Sclafani, H. Pires, C.D. Schroter, J. Ullrich, R. Moshhammer, T. Pfeifer, C. D. Lin, and J. Biegert, *Influence of orbital symmetry on diffraction imaging with rescattering electron wave packets*, [Nature Commun. \*\*7\*\*, 11922 \(2016\)](#);
30. Y. Ito, C. Wang, **A.T. Le**, M. Okunishi, D. Ding, C.D. Lin, and K. Ueda, *Extracting Conformational Structure Information of Benzene Molecules via Laser-induced Electron Diffraction*, [Structural Dynamics \*\*3\*\*, 034303 \(2016\)](#);
31. X. Wang, **A.T. Le**, C. Yu, R. R. Lucchese, and C. D. Lin, *Retrieving transient conformational molecular structure information from laboratory-frame photoelectron angular distributions*, [Sci. Rep. \*\*6\*\*, 23655 \(2016\)](#);
32. **A.T. Le**, H. Wei, C. Jin, and C.D. Lin, *Strong-field approximation in high-order harmonic generation with mid-infrared lasers*, **PhD Tutorial review paper in** [J. Phys. B \*\*49\*\*, 053001 \(2016\)](#);
33. S.F. Zhao, **A.T. Le**, C. Jin, X. Wang, and C. D. Lin, *An analytical model for calibrating laser intensity in strong-field ionization experiments*, [Phys. Rev. A \*\*93\*\*, 023413 \(2016\)](#);
34. C. Yu, H. Wei, X. Wang, **A.T. Le**, R. Lu, and C.D. Lin, *Reconstruction of two-dimensional molecular structure with laser-induced electron diffraction from laser-aligned polyatomic molecules*, [Sci. Rep. \*\*5\*\*, 15753 \(2015\)](#);
35. M. Pullen, B. Wolter, **A. T. Le**, M. Baudisch, M. Hemmer, A. Senftleben, C. D. Schröter, J. Ullrich, R. Moshhammer, C. D. Lin, and J. Biegert, *Imaging aligned polyatomic molecules with laser-induced electron diffraction*, [Nature Comm. \*\*6\*\*, 7262 \(2015\)](#);
36. H. Wei, **A. T. Le**, T. Morishita, C. Yu, and C. D. Lin, *Benchmarking accurate spectral phase retrieval of single attosecond pulses*, [Phys. Rev. A \*\*91\*\*, 023407 \(2015\)](#);
37. C. Jin, G. Wang, **A. T. Le**, and C. D. Lin, *Route to Optimal Generation of keV High-Order Harmonics with Synthesized Two-Color Laser Fields*, [Sci. Rep. \*\*4\*\*, 7067 \(2014\)](#);
38. **A. T. Le**, H. Wei, C. Jin, V. N. Tuoc, T. Morishita, and C. D. Lin, *Universality of returning electron wave packet in high-order harmonic generation with mid-infrared laser pulses*, [Phys. Rev. Lett. \*\*113\*\*, 033001 \(2014\)](#);

39. C. Jin, G. Wang, H. Wei, **A. T. Le**, and C. D. Lin, *Waveforms for Optimal Sub-keV High-Order Harmonics with Synthesized Two- or Three-Color Laser Fields*, [Nature Communications 5, 4003 \(2014\)](#).
40. X. Ren, V. Makhija, **A. T. Le**, J. Tross, S. Mondal, C. Jin, V. Kumarappan, and C. Trallero-Herrero, *Measuring angle-dependent photoionization cross section from aligned nitrogen using high harmonic generation*, [Phys. Rev. A 88, 043421 \(2013\)](#);
41. **A. T. Le**, R. R. Lucchese, and C. D. Lin, *High-harmonic generation from molecular isomers with mid-infrared intense laser pulses*, [Phys. Rev. A 88, 021402\(R\) \(2013\)](#);
42. **A. T. Le**, R. R. Lucchese, and C. D. Lin, *Quantitative rescattering theory of high harmonic generation from polyatomic molecules*, [Phys. Rev. A 87, 063406 \(2013\)](#);
43. M. C. H. Wong, **A. T. Le**, A. F. Alharbi, A. E. Boguslavskiy, R. R. Lucchese, J.-P. Brichta, C. D. Lin, and V. R. Bhardwaj, *High Harmonic Spectroscopy of Cooper Minimum in Molecules*, [Phys. Rev. Lett. 110, 033006 \(2013\)](#);
44. J. Xu, C. I. Blaga, A. D. DiChiara, E. Sistrunk, K Zhang, Z. Chen, **A. T. Le**, T. Morishita, C. D. Lin, P. Agostini, and L. F. DiMauro, *“Laser-induced electron diffraction for probing rare gas atoms”*, [Phys. Rev. Lett. 109, 233002 \(2012\)](#);
45. **A. T. Le**, T. Morishita, R. R. Lucchese, and C. D. Lin, *“Theory of high harmonic generation for probing time-resolved large-amplitude molecular vibrations with few-cycle intense lasers”*, [Phys. Rev. Lett. 109, 203004 \(2012\)](#);
46. C. D. Lin, C. Jin, **A. T. Le**, and R. R. Lucchese, *“Probing molecular frame photoelectron angular distributions via high-order harmonic generation from aligned molecules”*, [J. Phys. B 45, 194010 \(2012\)](#);
47. G. Wang, C. Jin, **A. T. Le**, and C. D. Lin, *“On the conditions of extracting photoionization cross sections from laser-induced high-order harmonic spectra”*, [Phys. Rev. A 86, 015401 \(2012\)](#);
48. C. Jin, J. B. Bertrand, R. R. Lucchese, H. J. Worner, P. B. Corkum, D. M. Villeneuve, **A. T. Le**, and C. D. Lin, *“Intensity dependence of multiple-orbital contributions and shape resonance in high-order harmonic generation of aligned N<sub>2</sub> molecules”*, [Phys. Rev. A 85, 013405 \(2012\)](#);
49. C. Trallero-Herrero, C. Jin, B. Schmidt, A. Shiner, D. M. Villeneuve, P. B. Corkum, C. D. Lin, F. Legare, and **A. T. Le**, *“Generation of broad XUV continuous high harmonic spectra and isolated attosecond pulses with intense mid-infrared lasers”*, [J. Phys. B 45, 011001 \(2012\)](#);
50. G. Wang, C. Jin, **A. T. Le**, and C. D. Lin, *“Influence of gas pressure on high-order harmonic generation of Ar and Ne”*, [Phys. Rev. A. 84, 053404 \(2011\)](#);
51. H. Li, D. Ray, S. De, I. Znakovskaya, W. Cao, G. Laurent, Z. Wang, M. F. Kling, **A. T. Le**, and C. L. Cocke, *“Orientation dependence of the ionization of CO and NO in an intense femtosecond two-color laser field”*, [Phys. Rev. A 84, 043429 \(2011\)](#);
52. C. Jin, **A. T. Le**, C. Trallero-Herrero, and C. D. Lin, *“Generation of isolated attosecond pulses in the far field by spatial filtering with an intense few-cycle mid-infrared laser”*, [Phys. Rev. A 84, 043411 \(2011\)](#);
53. **A. T. Le** and C. D. Lin, *Polarization states of high harmonic generation from aligned molecules*, [J. Mod. Optics 58, 1158-1165 \(2011\)](#);
54. C. Jin, **A. T. Le**, and C. D. Lin, *Analysis of effects of macroscopic propagation and multiple molecular orbitals on the minimum in high-order harmonic generation of aligned CO<sub>2</sub>*, [Phys. Rev. A 83, 053409 \(2011\)](#);
55. C. Jin, H. J. Woerner, V. Tosa, **A. T. Le**, J. B. Bertrand, R. R. Lucchese, P. B. Corkum, D. M. Villeneuve, and C. D. Lin, *Separation of Target Structure and Medium Propagation Effects in High-Harmonic Generation*, Fast Track Comm., [J. Phys. B 44, 095601 \(2011\)](#);
56. S. F. Zhao, C. Jin, R. R. Lucchese, **A. T. Le**, and C. D. Lin, *High-order harmonic generation of gas-phase H<sub>2</sub>O molecules*, [Phys. Rev. A 83, 033409 \(2011\)](#);

57. C. Jin, **A. T. Le**, and C. D. Lin, *Medium propagation effects in high harmonic generation of Ar and N<sub>2</sub>*, [Phys. Rev. A \*\*83\*\*, 023411 \(2011\)](#);
58. D. Ray, Z. Chen, S. De, W. Cao, I. V. Litvinyuk, **A. T. Le**, C. D. Lin, M. F. Kling, and C. L. Cocke, *Momentum spectra of electrons rescattered from rare gas targets following their extraction by one- and two-color femtosecond laser pulses*, [Phys. Rev. A \*\*83\*\*, 013410 \(2011\)](#);
59. S. F. Zhao, J. Xu, C. Jin, **A. T. Le**, and C. D. Lin, *Effect of orbital symmetry on the orientation dependence of strong field tunneling ionization of nonlinear polyatomic molecules*, [J. Phys. B \*\*44\*\*, 035601 \(2011\)](#);
60. S. F. Zhao, C. Jin, **A. T. Le**, and C. D. Lin, *Effect of improved molecular potential on strong field tunneling ionization of molecules*, [Phys. Rev. A \*\*82\*\*, 035402 \(2010\)](#).
61. J. Xu, Z. J. Chen, **A. T. Le** and C. D. Lin, *Self-imaging of molecules from diffraction spectra by laser-induced rescattering electrons*, [Phys. Rev. A \*\*82\*\*, 033403 \(2010\)](#).
62. **A. T. Le**, R.R. Lucchese, and C.D. Lin, *Polarization and ellipticity of high-order harmonics from aligned molecules generated by linearly polarized intense laser pulses*, [Phys. Rev. A \*\*82\*\*, 023814 \(2010\)](#).
63. C. D. Lin, **A. T. Le**, Z. Chen, T. Morishita, and R. R. Lucchese, *Strong field rescattering physics - self-imaging of a molecule by its own electrons*, **Topical Review** in [J. Phys. B \*\*43\*\*, 122001 \(2010\)](#).
64. S. F. Zhao, C. Jin, **A. T. Le**, T. F. Jiang, and C. D. Lin, *Determination of structure parameters in strong field tunneling ionization theory of molecules*, [Phys. Rev. A \*\*81\*\*, 033423 \(2010\)](#).
65. C. Jin, **A. T. Le**, S.F. Zhao, R.R. Lucchese, and C.D. Lin, *Theoretical study of photoelectron angular distributions in single-photon ionization of aligned N<sub>2</sub> and CO<sub>2</sub>*, [Phys. Rev. A \*\*81\*\*, 033421 \(2010\)](#).
66. S. F. Zhao, C. Jin, **A. T. Le**, T. F. Jiang, and C. D. Lin, *Analysis of Angular Dependence of Strong Field Tunneling Ionization for CO<sub>2</sub>*, [Phys. Rev. A \*\*80\*\*, 051402\(R\) \(2009\)](#).
67. **A. T. Le**, R. R. Lucchese, and C. D. Lin, *Uncovering multiple orbitals influence in high harmonic generation from aligned N<sub>2</sub>*, Fast Track Comm., [J. Phys. B \*\*42\*\*, 211001 \(2009\)](#).
68. **A. T. Le**, R. R. Lucchese, S. Tonzani, T. Morishita, and C. D. Lin, *Quantitative Rescattering Theory for high-order harmonic generation from molecules*, [Phys. Rev. A \*\*80\*\*, 013401 \(2009\)](#).
69. **A. T. Le**, R. R. Lucchese, M. T. Lee, and C. D. Lin, *Probing molecular frame photoionization via laser generated high-order harmonics from aligned molecules*, [Phys. Rev. Lett. \*\*102\*\*, 203001 \(2009\)](#).
70. C. Jin, **A. T. Le**, and C. D. Lin, *Retrieval of Target Photo-Recombination Cross Sections from High-Order Harmonics Generated in a Macroscopic Medium*, [Phys. Rev. A \*\*79\*\*, 053413 \(2009\)](#).
71. Z. Chen, **A. T. Le**, T. Morishita and C. D. Lin, *Quantitative rescattering theory for laser-induced high-energy plateau photoelectron spectra*, [Phys. Rev. A \*\*79\*\*, 033409 \(2009\)](#);
72. S. Micheau, Z. Chen, T. Morishita, **A. T. Le**, and C.D. Lin, *Robust carrier-envelope phase retrieval of few-cycle laser pulses from high-energy photoelectron spectra in above-threshold ionization of atoms*, [J. Phys. B \*\*42\*\*, 065402 \(2009\)](#).
73. Z. Chen, **A. T. Le**, T. Morishita, and C. D. Lin, *Origin of plateau and species dependence of laser-induced high-energy photoelectron spectra*, Fast Track Comm., [J. Phys. B \*\*42\*\*, 061001 \(2009\)](#).
74. S. Micheau, Z. Chen, **A. T. Le**, J. Rauschenberger, M. F. Kling, and C. D. Lin, *Accurate retrieval of target structures and laser parameters of few-cycle pulses from photoelectron momentum spectra*, [Phys. Rev. Lett. \*\*102\*\*, 073001 \(2009\)](#).
75. S. Micheau, Z. Chen, **A. T. Le**, and C.D. Lin, *Quantitative rescattering theory for nonsequential double ionization of atoms by intense laser pulses*, [Phys. Rev. A \*\*79\*\*, 013417 \(2009\)](#).
76. S. Minemoto, T. Umegaki, Y. Oguchi, T. Morishita, **A. T. Le**, S. Watanabe, and H. Sakai, *Retrieval of atomic structure from high-order harmonic spectra*, [Phys. Rev. A \*\*78\*\*, 061402\(R\) \(2008\)](#).
77. **A. T. Le**, T. Morishita, and C. D. Lin, *Extraction of the species dependent dipole amplitude and phase from high-order harmonic spectra in rare gas atoms*, [Phys. Rev. A \*\*78\*\*, 023814 \(2008\)](#).

78. J. Xu, **A. T. Le**, T. Morishita, and C. D. Lin, *Signature of Ericson Fluctuations in helium inelastic scattering cross sections near the double ionization threshold*, [Phys. Rev. A. 78, 012701 \(2008\)](#).
79. X. X. Zhou, Z. Chen, T. Morishita, **A. T. Le**, and C. D. Lin, *Retrieval of electron-atom scattering cross sections from laser-induced electron rescattering of atomic negative ions in intense laser fields*, [Phys. Rev. A 77, 053410 \(2008\)](#).
80. D. Ray, B. Ulrich, I. Bocharova, C. Maharajan, P. Ranitovic, B. Gramkow, M. Magrakvelidze, S. De, I. V. Litvinyuk, **A. T. Le**, T. Morishita, C. D. Lin, G. G. Paulus, and C. L. Cocke, *Large-angle electron diffraction structure in laser-induced rescattering from rare gases*, [Phys. Rev. Lett. 100, 143002 \(2008\)](#).
81. V. H. Le, N. T. Nguyen, C. Jin, **A. T. Le**, and C. D. Lin, *Retrieval of interatomic separations of molecules from laser-induced high-order harmonic spectra*, [J. Phys. B 41, 085603 \(2008\)](#).
82. **A. T. Le**, R. D. Picca, P.D. Fainstein, D. A. Telnov, M. Lein, and C.D. Lin, *Theory of high-order harmonic generation from molecules by intense laser pulses*, Fast Track Comm., [J. Phys. B 41, 081002 \(2008\)](#).
83. T. Morishita, **A. T. Le**, Z. Chen, and C. D. Lin, *Potential for ultrafast dynamic chemical imaging with few-cycle infrared lasers*, [New Journal of Physics 10, 025011 \(2008\)](#).
84. T. Morishita, **A. T. Le**, Z. Chen, and C. D. Lin, *Accurate retrieval of structural information from laser-induced photoelectron and high-harmonic spectra by few-cycle laser pulses*, [Phys. Rev. Lett. 100, 013903 \(2008\)](#).
85. Z. Chen, T. Morishita, **A. T. Le**, and C. D. Lin, *Analysis of two-dimensional high-energy photoelectron momentum distributions in single ionization of atoms by intense laser pulses*, [Phys. Rev A 76, 043402 \(2007\)](#).
86. V. H. Le, **A. T. Le**, R. H. Xie, and C. D. Lin, *Theoretical analysis of dynamic chemical imaging with lasers using high-order harmonic generation*, [Phys. Rev. A 76, 013414 \(2007\)](#).
87. **A. T. Le**, X.-M. Tong, and C. D. Lin, *Alignment dependence of high-order harmonic generation from CO<sub>2</sub>*, [J. Mod. Optics 54, 967 \(2007\)](#).
88. Z. Chen, T. Morishita, **A. T. Le**, M. Wickenhauser, X. M. Tong, and C. D. Lin, *Analysis of two-dimensional photoelectron momentum spectra and the effect of the long-range Coulomb potential in single ionization of atoms by intense lasers*, [Phys. Rev. A 74, 053405 \(2006\)](#).
89. P. Barragan, **A. T. Le**, and C. D. Lin, *Hyperspherical close-coupling calculations for electron capture cross sections in low energy Ne<sup>10+</sup> + H(1s) collisions*, [Phys. Rev. A 74, 012720 \(2006\)](#);
90. **A. T. Le**, X.-M. Tong, and C. D. Lin, *Evidence of two-center interference in high-order harmonic generation from CO<sub>2</sub>*, [Phys. Rev. A 73, 041402\(R\) \(2006\)](#).
91. **A. T. Le**, T. Morishita, X.-M. Tong, and C. D. Lin, *Signature of chaos in high-lying doubly-excited states of helium atom*, [Phys. Rev. A 72, 032511 \(2005\)](#).
92. C. N. Liu, S. C. Cheng, **A. T. Le**, and C. D. Lin, *Charge transfer in slow collisions of C<sup>6+</sup> with H below 1 keV/amu*, [Phys. Rev. A 72, 012717 \(2005\)](#).
93. **A. T. Le**, M. W. J. Bromley, and C. D. Lin, *Positronium formation in positron-Li and positron-Na collisions at low energies*, [Phys. Rev. A 71, 032713 \(2005\)](#).
94. **A. T. Le** and C. D. Lin, *Muon transfer from muonic hydrogen to atomic oxygen and nitrogen*, [Phys. Rev. A 71, 022507 \(2005\)](#).
95. T. G. Lee, M. Hesse, **A. T. Le**, and C. D. Lin, *Charge transfer in slow collisions of O<sup>8+</sup> and Ar<sup>8+</sup> ions with H(1s) below 2 keV/amu*, [Phys. Rev. A 70, 012702 \(2004\)](#);
96. **A. T. Le**, C. D. Lin, L. F. Errea, L. Mendez, A. Riera, and B. Pons, *Comparison of Hyperspherical vs Common Reaction Coordinates Close-Coupling Methods for ion-atom collisions at low energies*, [Phys. Rev. A 69, 062703 \(2004\)](#);
97. M. Hesse, **A. T. Le**, and C. D. Lin, *Protonium formation in antiproton-hydrogen collision at low energies by a new diabatic approach*, [Phys. Rev. A 69, 052712 \(2004\)](#);

98. C. N. Liu, **A. T. Le**, and C. D. Lin, *Charge transfer in slow collisions of  $C^{4+}$  with H below 1 keV/amu*, [Phys. Rev. A \*\*68\*\*, 062702 \(2003\)](#);
99. T. G. Lee, **A. T. Le**, and C. D. Lin, *Charge transfer and excitation in slow 20 eV-2 keV  $H^+ + D(1s)$  collisions*, [J. Phys. B \*\*36\*\*, 4081 \(2003\)](#);
100. **A. T. Le**, C. N. Liu, and C. D. Lin, *Charge transfer in slow collisions between  $H^+$  with Na*, [Phys. Rev. A \*\*68\*\*, 012705 \(2003\)](#);
101. **A. T. Le**, M. Hesse, T. G. Lee, and C. D. Lin, *Hyperspherical close coupling calculations for charge transfer cross sections in  $Si^{4+} + H(D)$  and  $Be^{4+} + H$  collisions at low energies*, [J. Phys. B \*\*36\*\*, 3281 \(2003\)](#);
102. C. N. Liu, **A. T. Le**, T. Morishita, B. D. Esry, and C. D. Lin, *Hyperspherical close coupling calculations for charge transfer cross sections in  $He^{2+} + H(1s)$  collisions at low energies*, [Phys. Rev. A \*\*67\*\*, 052705 \(2003\)](#);
103. **Le Anh Thu** and L. I. Komarov, *Operator method in solving non-linear equations of the Hartree-Fock type*, [J. Phys.: Cond. Matt. \*\*10\*\*, 11679 \(1998\)](#).
104. **Le Anh Thu**, L. V. Hoang, L. I. Komarov, and T. S. Romanova, *Relativistic dynamical polarizability of Hydrogen-like atoms*, [J. Phys. B: At. Mol. Opt. Phys \*\*29\*\*, 2897 \(1996\)](#).
105. **Le Anh Thu**, L. V. Hoang, L. I. Komarov, and T. S. Romanova, *Operator representation of the Dirac Coulomb Green function and relativistic polarizability of Hydrogen-like atoms*, [J. Phys. B: At. Mol. Opt. Phys. \*\*27\*\*, 4083 \(1994\)](#).
106. L. V. Hoang, T. Vilorina, and **Le Anh Thu**, *On the five-dimensional Hydrogen-like atom*, [J. Phys. A: Math. Gen. \*\*24\*\*, 3021 \(1991\)](#).
107. **Le Anh Thu** and L.V. Hoang, *On the Coulomb-Green function in five-dimensional space*, *Izv. Akad. Nauk BSSR (ser. Fiz.-Mat. Nauk)* **11**, N6, 44-49 (1991) (in Russian).

### 3.3 Book Chapters & Conference Proceedings

1. X Liu, K Amini, T Steinle, A Sanchez, M Shaikh, B Belsa, J Steinmetzer, **A.T. Le**, R Moshhammer, T Pfeifer, J Ullrich, CD Lin, S Gräfe, J Biegert, *Imaging an isolated water molecule with an attosecond electron wave packet*, [Journal of Physics: Conference Series \*\*1412\*\*, 072047 \(2020\)](#).
2. K Amini, T Steinle, M Sclafani, M Shaikh, A Sanchez, X Liu, **A.T. Le**, J Steinmetzer, T Pfeiffer, R Moshhammer, J Ullrich, M Lewenstein, R Moszynski, JG de Abajo, CD Lin, S Gräfe, J Biegert, *Ultrafast imaging of the Renner-Teller effect in a field-dressed molecule*, [Journal of Physics: Conference Series \*\*1412\*\*, 092001 \(2020\)](#)
3. **A.T. Le**, M. Centurion, and C. D. Lin, *Elements of structure retrieval in ultrafast electron and laser-induced electron diffraction from aligned polyatomic molecules*, [Book Chapter in \*Attosecond molecular dynamics\*, eds. by F. Lepine and M. Vrakking, Royal Society of Chemistry, pp. 462-493 \(2018\)](#).
4. S.F. Zhao, **A.-T. Le**, J. Cheng, X. Wang, X.X. Zhou, C.D. Lin, *The possibility for alibrating laser intensity in strong-field-ionization experiments*, [Journal of Physics: Conference Series \*\*875\*\*, 032008 \(2017\)](#).
5. M. G Pullen, B. Wolter, **A.-T. Le**, M. Baudisch, M. Hemmer, A. Senftleben, M Sclafani, C.D. Schroeter, J. Ullrich, R. Moshhammer, C.D. Lin, J. Biegert, *Polyatomic molecular structure retrieval using laser-induced electron diffraction*, [Journal of Physics: Conference Series \*\*635\*\*, 072051 \(2015\)](#).
6. T. Umegaki, T. Morishita, S. Minemoto, Y. Oguchi, A.-T. Le, S. Watanabe, H. Sakai, *Accurate retrieval of atomic structures from high-order harmonic spectra*, [Journal of Physics: Conference Series \*\*194\*\*, 112005 \(2009\)](#).
7. C. D. Lin, **A. T. Le** and Z. Chen, [Theory of Dynamic Imaging of Molecules with intense infrared laser pulses](#), in "*Quantum Dynamic Imaging: Theoretical and Numerical Methods*", eds.: A. D. Bandrauk and M Y Ivanov, Springer, [pp. 89-106 \(2011\)](#).

8. M. W. J. Bromley, J. Mitroy, S. A. Novikov, **A. T. Le**, and C. D. Lin, [Positron-atom bound states and interactions](#), in *Photonic, Electronic and Atomic Collisions*, pp. 407-414, eds.: P.D.Fainstein et al (World Scientific, Singapore, 2006).
9. C. D. Lin, **A. T. Le**, T. G. Lee, and C. N. Liu, *New and old theoretical tools for evaluating cross sections for ion-atom collisions*, [AIP Conf. Proc. 771, 229-238 \(2005\)](#).

### 3.4 Other publications

1. V. Makhija, X. Ren, D. Gockel, **A.T. Le**, and V. Kumarappan, *Orientation Resolution through Rotational Coherence Spectroscopy*, [arXiv:1611.06476](#)
2. **A.-T. Le** and C. D. Lin, *Ultrafast optics: Imaging a Chemical Reaction*, [Nature Photonics 4, 671 \(2010\)](#).
3. **A.-T. Le**, R. D. Picca, P. D. Fainstein, D. A. Telnov, M. Lein, and C. D. Lin, *Ultrafast self-imaging of molecules under intense laser pulses*, Euro Physics News, V. 39, Number 4, p. 19 (2008)

### 3.5 Representative presentations

- *Accurate semiclassical method for constructing photoelectron momentum distribution for atoms in intense few-cycle laser pulses*, **Talk** at DAMOP 2024, Fort Worth, TX, June 04, 2024.
- *Novel strong-field techniques for probing ultrafast processes in atoms and molecules*, **Invited talk** at 47<sup>th</sup> Vietnam Conference on Theoretical Physics (VCTP-47), Tuy Hoa, Vietnam, August 02, 2022
- *Strong-field spectroscopies with ultrafast laser pulses*, **Invited talk** at Department of Chemistry, Wayne State University, October 20, 2021
- *Strong-field spectroscopies with ultrafast laser pulses*, **Invited talk** at Department of Chemistry, Missouri University of Science and Technology, October 18, 2021
- *Quantitative Rescattering Model for High-Harmonic Generation in Doped Materials*, **Invited Talk**, LPHYS'19, Gyeongju, South Korea, July 8-12, 2019.
- *Dynamic Imaging of Chemical Reactions with Few-Cycle Intense Laser Pulses*, **Invited Talk**, ICCSE-4 Conference, Ho Chi Minh city, Vietnam, July 24-27, 2019
- *High-harmonic generation in doped solids: a perspective from atomic and molecular strong-field physics*, **Seminar**, Ton Duc Thang University, Ho Chi Minh city, Vietnam, July 23, 2019
- *High-harmonic generation in doped solids: a perspective from atomic and molecular strong-field physics*, **Seminar**, Hanoi University of Technology, Hanoi, Vietnam, July 15, 2019
- *Probing coherent multichannel nuclear wave packets with ultrashort laser pulses*, **Invited Talk**, Workshop on "Trends in Attosecond and Strong-field Physics", Aarhus University, Denmark, Jan. 31, 2019.
- *Probing spatial and spectroscopic structure information with femtosecond intense laser fields*, **Invited talk**, ACS Meeting, Symposium on Strong Field Chemistry, Boston August 21, 2018.
- *Ultrafast imaging with laser-induced electron diffraction*, **Invited talk**, Workshop on Trends in Ultrafast Laser Science, August 16-18, 2017, Boulder, Colorado.
- *Rescattering physics and ultrafast molecular imaging*, **Colloquium**, Department of Physics, Kansas State University, Feb. 16, 2017
- *Imaging polyatomic molecules with ultrafast laser-induced electron diffraction*, **Invited talk**, Ultrafast Nonlinear Imaging and Spectroscopy conference, SPIE Optics and Photonics, San Diego, August 28, 2016.
- *Strong field and attosecond physics: progress and opportunities*, **Invited talk**, Ton Duc Thang University, Vietnam, June 23, 2016.
- *Retrieval of two-dimensional molecular structure with laser-induced electron diffraction from laser-aligned polyatomic molecules*, Talk at ATTO15, July 10, 2015, Saint-Sauveur, Quebec, Canada.
- *High harmonic generation with intense mid-infrared laser pulses*, **Invited talk**, IWAQD10 Workshop, University of Electro-Communications, Tokyo, Japan, Jan. 23, 2014.



- *Imaging molecular structure with ultrafast intense laser pulses*, **Colloquium**, Department of Physics, Kansas State University, Nov. 11, 2013
- *Theoretical treatment of high harmonic generation from dynamically evolving systems*, **Invited talk**, University of Pedagogy, Ho Chi Minh city, Vietnam, June 17, 2013.
- *Ultrafast intense laser-matter interaction: progress, challenge, and opportunities*, **Invited talk**, Institute of Physics, Hanoi, Vietnam, May 28, 2013.
- *Imaging chemical reaction with ultrafast intense laser pulses*, **Invited talk**, Hanoi University of Science and Technology, Vietnam, May 20, 2013.
- *Theoretical treatment of high harmonic generation from dynamically evolving system*, **Invited talk**, Workshop on Intense Fields and Attosecond Science, Aarhus University, Sept. 6, 2012.
- *High harmonic generation: from microscopic to macroscopic world*, **Invited talk**, OSA's 95th Annual Meeting *Frontiers in Optics & Laser Science XXVII*, San Jose, CA, Oct 19, 2011.
- *Accurate macroscopic simulation of high harmonic generation*, **Invited talk**, RIKEN Advanced Institute, Japan, July 14, 2011.
- *Towards ultrafast dynamic chemical imaging by intense laser pulses*, **Invited talk**, Argonne National Laboratory, Oct. 15, 2010.
- *Extraction of Fixed-in-Space photoionization cross section and phase with high-order harmonic generation from aligned molecules*, **Invited talk** at 41<sup>st</sup> DAMOP meeting, Houston, May 29, 2010.
- *Influence of multiple orbitals on high harmonic generation from aligned molecules*, Talk at Workshop on Super Intense Laser-Atom Physics, Zion National Park, USA, Sept. 23, 2009.
- *Probing Fixed-in-Space molecular structures with high harmonic generation*, **Invited talk** at the Second Intl. Conference on Attosecond Physics, Manhattan, Kansas, July 30, 2009.
- *Quantitative rescattering theory for high-order harmonic generation from aligned molecules*, Talk at 40<sup>th</sup> DAMOP meeting, Charlottesville, Virginia, May 22, 2009.
- *Dynamic imaging with high harmonic generation by few-cycle laser pulses*, Talk at Dept. of Chemistry, Kansas State University, March 24, 2009.
- *Accurate retrieval of atomic and molecular structure from high-order harmonic spectra*, Talk at 39<sup>th</sup> DAMOP meeting, State College, Pennsylvania, May 29, 2008.
- *Accurate retrieval of atomic and molecular structure from high harmonic generation and electron momentum spectra*, Talk at Dept. of Chemistry, Northwestern University, Evanston, Aug. 17, 2007.
- *Evidence of two-center interference in high-order harmonic generation from CO<sub>2</sub>*, Talk at 37<sup>th</sup> DAMOP meeting, Knoxville, Tennessee, May 19, 2006.
- *Antihydrogen formation in low energy collisions of antiproton with excited positronium*, Talk at 35<sup>th</sup> DAMOP meeting, Tucson, AZ, May 28, 2004.
- *Hyperspherical close coupling method: recent applications to ion-atom and positron-atom collisions*, Talk at 34<sup>th</sup> DAMOP meeting, Boulder, CO, May 21, 2003.

#### 4. Research Grants and Contracts

- Current grant: "Towards imaging time-resolved non-equilibrium molecular structures with ultrafast intense laser pulses", DOE, under **Award Number DE-SC0023192**, \$425,000.00, 08/2022 – 08/2025

##### Previous grants

- Chemical Sciences, Geosciences and Biosciences Division, Office of Basic Energy Sciences, Office of Science, U. S. Department of Energy under **Grant No. DE-FG02-86ER13491** From 2006-2018, renewable every three years, PI: I. Ben-Itzhak (director of J.R. Macdonald Laboratory); I was senior personnel.
- National Science Foundation under **Award No. IIA-1430493** From 2015-2017; PI: I. Ben-Itzhak (director of J.R. Macdonald Laboratory); I was senior personnel.

## 5. Teaching

### At University of Connecticut

- Phys-4140/6140 -- *Principles of Lasers*, Spring 2023, Spring 2025
- Phys-6120 *Molecular Physics*, Fall 2024
- Phys-1402Q *General Physics with Calculus II*, Fall 2023, Spring 2024
- Phys 6110 – *Atomic Physics*, Fall 2022
- Phys 1230 -- *General Physics Problems*, Spring 2022

### At Missouri University of Science and Technology

- Physics 5001: *Introduction to Atomic, Molecular, and Optical Physics* (Graduate level), Fall 2020
- Physics 6010: *Seminar*, Spring 2020, Spring & Fall 2019, Fall 2018
- Physics 2135 (recitation) *Engineering Physics II*, Spring 2021 and 2020, Spring & Fall 2019, Fall 2018

### At Kansas State University

- PHYS 850 *Theory of Atomic Structure and Atomic Interactions* – Spring 2018.
- PHYS 707 *Topics in Physics (Molecular structures and spectroscopy: learning with Gaussian/Gamess quantum chemistry software)* – Fall 2016.
- *Engineering Physics* (Studio) Fall 2011 (38 students) at Kansas State University.
- *Descriptive Physics* (Studio) Spring 2011 (10 students) at Kansas State University.
- *General Physics 1* (recitation) Spring 2003 (43 students) at Kansas State University.
- *General Physics 2* (recitation) Fall 2002 (45 students) at Kansas State University.
- *Descriptive Physics* (recitation) Spring 2002 (43 students) at Kansas State University.

## 6. Department and University Service

### At UConn

- AMO seminar coordinator (Jan 2022 – August 2024)

### At Missouri University of Science and Technology

- Organizer of Department Colloquium Series (Fall 2018, Spring & Fall 2019, and Spring 2020)
- Chair of Scheerer Prize Competition (Fall 2018)
- Committee member of Scheerer Prize Competition (Fall 2019)
- Committee member of the University Library and Learning Resources Committee (LLRC) (2020 –2021)

## 7. Professional Service and Society Memberships

- Reviewer for DOE AMOS program (2023 & 2024), NSF AMO theory program (2021), DOE Early Career program (2020 & 2021), DOE BES SBIR/STTR program (2018), NASA postdoctoral program
- Referee for *Nature Communications*, *Light: Science & Applications*, *Physical Review Letters*, *Physical Review A*, *Journal of Physics A*, *Journal of Physics B*, *New Journal of Physics*, *Optics Letters*, *Optics Express*, *Journal of Electron Spectroscopy and Related Phenomena*, *Physics Letters A*, *Physica Scripta*, *Optics Communications*, *Applied Optics*, *Photonics*
- Co-chair of the Theoretical Atomic, Molecular, and Optical Physics Community (TAMOC), June 2020 – June 2022; <https://sites.google.com/site/tamocphysics/community/tamoc-chairs?authuser=0>
- Chair of Focus Session J03: “*Imaging and novel spectroscopy techniques*”, DAMOP meeting, Milwaukee, WI, May 27-31, 2019; Website: <http://meetings.aps.org/Meeting/DAMOP19/Session/J03>

- Organizing committee member, 2<sup>nd</sup> Intl. Conference on Attosecond Physics, Manhattan, Kansas, July 28 –Aug 1, 2009.
- Member of the American Physical Society (2002 – now)
- Member of the American Chemical Society (2018 - now)

## 8. Other activities

- Member of PhD Defense Committees for
  - Mr. Michael Davino, UConn, 08/01/2024
  - Mr. Jean-Nicolas Vigneau, Université Paris-Saclay, 05/21/2024
  - Mr. Ravi Wickramathilake, UConn, 03/28/2024
  - Mr. Brandin Davis, UConn, 04/17/2023
  - Mr. Sujan Bastola, Missouri University of Science and Technology, 06/23/2022
  - Mr. Jorgen J. Rorstad, Aarhus University, Feb. 2019
  - Mr. Adam Etches, Aarhus University, Sept. 2012
  - Ms. Misty Ostergaard, Kansas State University, 2016.
- Served in various occasions as a member of departmental examination committee, and PhD exam committee.

## 9. Research Mentoring

### At University of Connecticut

- Mr. Doan-An Trieu, visiting graduate student (March 2024-June 2024)
- Mr. Hao Truong, Graduate Research Assistant (08/2023- now)
- Mr. Phi-Hung Tran, Graduate Research Assistant (09/2021- now)
- Dr. Esteban Goetz, Postdoc (February 2022 – now)

### At Missouri University of Science and Technology

- Dr. Van-Hung Hoang, Postdoc, Missouri S&T (02/015/2019- 06/27/2021)
- Mr. Phi-Hung Tran, Graduate Research Assistant, Missouri S&T (09/2019- 08/2021)
- Undergraduate research students: Zach Driemeyer, Joshua Maechler, Reagan Dugan, Aaron Silvus, Kenneth Distefano (FIRE student)
- High School student: Sudatta Hor (Rolla High School)

### At Kansas State University

- Mr. Shan Xue, visiting graduate student from Lanzhou University, China (11/12/2016-2018).
- Mr. Van-Hung Hoang, graduate student, Ho Chi Minh City University of Pedagogy, Vietnam (PhD defense 12/2017).
- Dr. Ty Nguyen, visiting scientist from Ho Chi Minh City University of Pedagogy (03/14/2015-03/14/2017).
- Mr. Van-Hung Hoang, visiting graduate student from Ho Chi Minh City University of Pedagogy, Vietnam (03/01/2016-12/23/2016).
- Mr. Darren Woodson, NSF REU undergraduate student (summer 2016).