

Mac Lee

Department of Physics
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EDUCATION

University of California, San Diego, CA
Doctor of Philosophy in Physics

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California State University, Northridge, CA
Master of Science in Physics with Distinction, May 2018

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University of Kansas, Lawrence, KS
Completed 24 units toward a Master of Music in Piano Performance
from Aug. 2011 to Dec. 2012

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Azusa Pacific University, Azusa, CA
Bachelor of Music in Piano Performance, July 2011

SCHOLARSHIPS/GRANTS/AWARDS/HONORS

- 2018 Election to Sigma Pi Sigma
- 2018 Mack I. Johnson Research Award for Outstanding Graduate Student in the College of Science and Mathematics (CSUN)
- 2018 C. Y. Liang Outstanding Graduate Student Award (CSUN)
- 2017 Leslie and Terry Cutler Scholarship (CSUN)
- 2016 Summer Research Grant (CSUN)

EMPLOYMENT HISTORY

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| Aug. 2018–present | UCSD Teaching Assistant
Taught PHYS 1BL, 2BL, 2D, 10, and 140A |
| May 2010–July 2018 | Private Piano Teacher
Member of the Music Teachers Association California from Oct. 2013 to Oct. 2014 |
| Jan. 2018–May 2018 | CSUN Teaching Assistant |

Taught PHYS 220AL

Nov. 2013–Nov. 2016 Staff Pianist at Temple City Mandarin Baptist Church

Aug. 2013–Sept. 2016 Hathaway-Sycamores CFS Learning Center Instructor

In my capacity as an instructor at Hathaway-Sycamores, I tutored K-12 students attending local schools in language arts, math and the sciences. In addition to the tutoring sessions during weekdays, I also served as the math instructor for the Hathaway-Sycamores Summer SAT Workshop which was organized in partnership with three local high schools in the years 2014–2016. I reprised the role as an SAT instructor in 2017 and 2018 as a volunteer.

May 2013–Nov. 2015 Private Math Tutor

Aug. 2011–Aug. 2012 KU Graduate Teaching Assistant

Taught PIAN 121, 221, 284, and 321

SOFTWARE ENGINEERING SKILLS

Programming Languages with proficiency: Python, Rust, OCaml, Haskell

Programming Languages with working knowledge: JavaScript, TypeScript, Julia, VimScript

Others: LLVM IR, MIPS, WebAssembly

PEER REVIEWED PUBLICATIONS

- [2] S.-S. Gong, W. Zheng, M. Lee, Y.-M. Lu, and D. N. Sheng, “Chiral spin liquid with spinon fermi surfaces in the spin- $\frac{1}{2}$ triangular heisenberg model”, [Phys. Rev. B **100**, 241111 \(2019\)](#).
- [1] M. Lee, T. R. Look, S. P. Lim, and D. N. Sheng, “Many-body localization in spin chain systems with quasiperiodic fields”, [Phys. Rev. B **96**, 075146 \(2017\)](#).

TALKS AND PRESENTATIONS

- [3] M. Lee, “Spin liquid and quantum phase diagram on a spin-orbit coupled triangular lattice”, International Conference on Magnetism, July 2018.
- [2] M. Lee, “Spin liquid and quantum phase diagram on a spin-orbit coupled triangular lattice”, APS March Meeting, Mar. 2018.
- [1] M. Lee, “Many-body localization in spin chain systems with quasiperiodic fields”, CSUNposium, Apr. 2017.