Mac Lee

Department of Physics
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Edited: December 21, 2021

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
—
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

Aug. 2018–present	UCSD Teaching Assistant
	Taught PHYS 1BL, 2BL, 2D, 10, and 140A
Nov. 2013–Aug. 2018	Staff Pianist at Temple City Mandarin Baptist Church
Mar. 2013–Aug. 2018	Collaborative Pianist
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
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.