

## Landon Lehman

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CONTACT INFORMATION      Department of Physics  
University at Buffalo  
259 Fronczak Hall  
Buffalo, NY 14260  
*Phone:* 574-807-9129  
*E-mail:* landonle@buffalo.edu

EDUCATION      **University of Notre Dame**, Notre Dame, IN

Ph.D., Physics, 2017

M.S., Physics, 2015

Adviser: [Adam Martin](#)

**Purdue University**, West Lafayette, IN

B.S., Physics, 2012

Minor in Mathematics

PROFESSIONAL RECORD      June 2017 to present: Clinical Assistant Professor, University at Buffalo, Buffalo, NY

RECORD

August 2017 to present: Physics Teacher, Chesterton Academy of Buffalo

January 2017 to May 2017: Adjunct Instructor, University at Buffalo, Buffalo, NY

COURSES

TAUGHT

**PHY102 College Physics II:** A 4-credit algebra-based introductory course covering topics in electricity and magnetism, light, optics, and modern physics. I taught two sections in Spring 2017 with a combined enrollment of 330 students, and I am currently (Spring 2018) teaching two sections with a combined enrollment of 350 students.

**PHY101 College Physics I:** A 4-credit algebra-based introductory course covering mechanics, heat, waves, and sound. I taught two sections in Fall 2017 with a combined enrollment of 300 students.

**PHY307 Modern Physics Lab:** A 2-credit upper-level undergraduate lab course, covering 11 experiments in modern physics, ranging from nuclear physics to semiconductors. I taught this course in Fall 2017 with an enrollment of 10 students.

**Physics GRE Prep Course:** An experimental course that I taught in Fall 2017. It was an informal course, with the goal of preparing physics majors to perform to the best of their abilities on the Physics GRE exam.

**PHY207 General Physics III:** A 4-credit calculus-based course covering sound waves, electromagnetic waves, geometrical and physical optics, and modern physics. I am currently (Spring 2018) teaching one section with an enrollment of 167 students.

PUBLICATIONS

- [1] Landon Lehman and Adam Martin. “Low-derivative operators of the Standard Model effective field theory via Hilbert series methods.” [arxiv:1510.00372](#). Journal of High Energy Physics, Volume 2016, Issue 2. doi: 10.1007/JHEP02(2016)081.
- [2] Landon Lehman and Adam Martin. “Hilbert Series for Constructing Lagrangians: Expanding the phenomenologist’s toolbox.” [arxiv:1503.07537](#). Physical Review D **91**, 105014 (2015). doi: 10.1103/PhysRevD.91.105014.
- [3] Landon Lehman. “Extending the Standard Model Effective Field Theory with the Complete Set of Dimension-7 Operators.” [arxiv:1410.4193](#). Physical Review D **90**, 125023 (2014). doi: 10.1103/PhysRevD.90.125023.
- [4] Joseph Bramante, Antonio Delgado, Landon Lehman, and Adam Martin. “Boosted Higgses from chromomagnetic  $b$ ’s: BSM  $b\bar{b}h$  at high luminosity.” [arxiv:1410.3484](#). Physical Review D **93**, 053001 (2016). doi: 10.1103/PhysRevD.93.053001.
- [5] Joseph Bramante, Sean Downes, Landon Lehman, and Adam Martin. “Clearing the Brush: The Last Stand of Solo Small Field Inflation.” [arxiv:1405.7563](#). Physical Review D **90**, 023530 (2014). doi: 10.1103/PhysRevD.90.023530.
- [6] Carlos Alvarado, Landon Lehman, and Bryan Ostdiek. “Surveying the Scope of the  $SU(2)_L$  Scalar Septet Sector.” [arxiv:1404.3208](#). Journal of High Energy Physics, Volume 2014, Issue 5. doi: 10.1007/JHEP05(2014)150.

TALKS

- [1] “Taking the Measure of Effective Field Theories.” Physics Seminar, University at Buffalo, The State University of New York, March 1, 2016.
- [2] “Generating functions for EFT operators.” APS Prairie Section Fall Meeting 2015, University of Notre Dame, November 21, 2015.
- [3] “Generating functions for EFT operators.” Composite Higgs Program, Fermilab (Fermi National Accelerator Laboratory), October 28, 2015.
- [4] “Hilbert Series for Constructing Lagrangians.” Phenomenology 2015 Symposium, University of Pittsburgh, May 4, 2015.
- [5] “Surveying the Scope of the  $SU(2)_L$  Scalar Septet Sector.” 2014 Spring GPS Conference, University of Notre Dame Department of Physics, April 28, 2014.

AWARDS

**University of Notre Dame**

- Arthur J. Schmitt Leadership Fellowship in Science and Engineering
- Society of Schmitt Fellows website