

Ethan T. Neil

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CITIZENSHIP: United States of America

Research Interests

Particle physics, lattice gauge theory, dark matter, collider phenomenology

Education

- 2011 PhD in Physics, Yale University
- 2005 BSc with distinction in Physics, Duke University

Appointments held

- 2020- Associate Professor of Physics, University of Colorado, Boulder
- 2019- Fellow, [Center for Theory of Quantum Matter](#), University of Colorado, Boulder
- 2013-2020 Assistant Professor of Physics, University of Colorado, Boulder
- 2013-2018 RIKEN Fellow, RIKEN BNL Research Center, Brookhaven National Laboratory
- 2010-2013 Research Associate, Fermi National Accelerator Laboratory

Grants, honors & awards

- 2019 Outstanding Physics Teacher Award, University of Colorado Department of Physics
- 2015- Co-PI on U.S. Department of Energy grant “Elementary Particle Physics and High Energy Phenomena”
- 2015 New Assistant Professor Program Course Development Grant from CU Faculty Teaching Excellence Program (FTEP) for interactive learning in PHYS 3210
- 2008 Prize Teaching Fellowship, Yale University Graduate School

Teaching

- Developed interactive course materials for PHYS 3210, released for general use through the Physics Education Research group
- Developed and taught new course PHYS 2600, "Introduction to Scientific Computing"
- Developed and taught new course PHYS 5070, "Introduction to Computational Physics" (graduate level)

Students advised and co-advised

- Nicholas Miesch (undergrad, current)
- Curtis Peterson (current)
- Roman Marcarelli (current)
- Andrea Carosso, Ph.D. 2020 (postdoctoral researcher at GWU)
- Dan Hackett, Ph.D. 2019 (postdoctoral researcher at MIT)
- Will Jay, Ph.D. 2018 (postdoctoral researcher at Fermilab)

Postdoctoral researchers advised

- Camilo Lopez (left academia)
- Oliver Witzel (researcher at Siegen University)
- Venkitesh Ayyar (postdoctoral scholar, Computational Research Division, Lawrence Berkeley National Lab)
- Yuzhi Liu (AI fellow at Insight Data Science)

Professional Service

- 2020- Subtopic convener for TFOs, "Lattice Gauge Theory", for the Snowmass 2021 community planning exercise
- 2018 Co-organizer, "Workflow, Automation, and Data Management for Lattice Gauge Theory" workshop at Fermilab
- 2018- Scientific program committee member, USQCD Collaboration
- 2017- Local co-organizer, Theoretical Advanced Study Institute summer school
- 2011- Lead organizer, "Lattice for Beyond the Standard Model Physics" annual workshop series

University Service

- 2018- Faculty advisor for Engineering Physics (EPEN) undergrad major
- 2017 Faculty search committee in Strongly-Coupled Systems
- 2014-2016 Physics Representation, Retention and Recruitment (R^3) committee
- 2013-2014 Physics Departmental Action Team (DAT) on climate and representation in undergrad physics at CU
- 2011-2012 Member of the physics graduate program committee

Other scholarly works

[Taxi software library](#) for management of Monte Carlo simulation workflow