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Education

Harvard University, Massachusetts, MA

Ph.D., Physics, expected May 2017

M.A., Physics, 2014

Committee: Profs. Melissa Franklin (Adviser), Masahiro Morii, Howard Georgi

California Institute of Technology, California, CA

B.A. with honors, Physics, 2012

Research Interests

New physics production and decay with the Higgs Boson

Di Boson production and measurement

Charged particle prompt reconstruction

Detector operation, monitoring and development

Research Experience

Harvard University

Search for $X \rightarrow hh \rightarrow b\bar{b}b\bar{b}$ using ATLAS 13TeV data 2015-2016

Improvement of Hough Transform in Muon Reconstruction 2015-2016

Development and Organization of Muon Offline Data Monitoring 2015-2016

Prospect study for $hh \rightarrow WW\tau\tau$ for High Lumi LHC 2014

Calibration of Harvard Micromega Cosmic Stand 2014

Study of Muon Segments in ATLAS detector using 8TeV data 2012-2014

California Institute of Technology

Study of Vector Boson + Jets using CMS 8TeV data 2011-2012

Design and validation of an optical sensor for telescopes 2009-2010

Design experiment and study of market convergence 2009-2010

Modeling on novel methods of space launching 2008-2009

Publications and Talks

Paper

Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state	2016
Dynamics of Equilibration in the Double Auction Market	2013

Public Notes

ATLAS-CONF-2016-049, $hh \rightarrow 4b$	2016 summer
ATLAS-CONF-2016-017, $hh \rightarrow 4b$	2016 spring

Public Talks

Higgs Boson And BSM China: $hh \rightarrow 4b$	2016
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Teaching Exprience

Physics Department, Harvard University

Mentoring summer research undergraduate students	2015-2016
Teaching Fellow, Physics 125, Widely Applied Physics	2014
Teaching Fellow, Physics 16, Classical Mechanics and Relativity	2013

Physics Department, California Institute of Technology

Teaching Assistant, Physics 50, Physics League	2011-2012
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Honors

Harvard White Teaching Prize for Physics 16	2014
Harvard Traveling Scholar	2015-2016
Caltech Undergrad Summer Research Fellowship	2009-2012

Languages and Skills

Chinese (native), English (proficient), French (elementary)
C++, HTML, L^AT_EX, Matlab, Mathematica, Python, ROOT