

Curriculum Vitae

YUN JIANG

HEP PhD Student, University of California, Davis

Mailing Address: Department of Physics,
University of California, Davis
One Shields Avenue,
Davis, CA 95616
United States

Email: yunjiang@ucdavis.edu/wing0214@gmail.com

Homepage: <http://particle.physics.ucdavis.edu/hefti/members/doku.php?id=students:jiang>

Phone Number: (530)-219-7538

Born: February 14, 1986 - Shanghai, China

Nationality: Chinese

Education

June 2008	Bachelor of Science in Physics GPA: 3.90/4.00	Zhejiang University, China Thesis Advisor: Ding-hui Lu
March 2011	Master of Science in Physics CPA (equivalent to GPA): 5.00/5.00	National University of Singapore Supervisor: Edward Teo
Sep. 2010 - Present	Doctor of Philosophy in Physics GPA: 4.00/4.00	University of California, Davis Supervisor: John F. Gunion

Professional Positions

- Jan. - Dec. 2009 Teaching Assistant in the Physics Department
National University of Singapore
- Sep. 2010 - Present Teaching Assistant in the Department of Physics
University of California, Davis
230AB Quantum Field Theory
245A High Energy Physics
130AB Particle Physics
129A Nuclear Physics

Awards and Honors

- Sep. 2006 First-class Prize, China Undergraduate Mathematical Contest in Modeling
- Feb. 2007 Meritorious Winner, Mathematical Contest in Modeling (MCM), United States
- Sep. 2007 First-class Research Innovation Scholarship, Zhejiang Province, China
- Oct. 2007 Fudi Scholarship, Zhejiang University
- Nov. 2007 China - Singapore Exchange Program Fellowship
- 2008 - 2010 Research Scholarship, National University of Singapore
- Jan.-Mar. 2011 Block Grant Fellowship, University of California
- Jun.-Aug. 2012 UC Davis Graduate Program Fellowship, University of California, Davis

Research Activities

(i) Paper Publications

- (1) J. F. Gunion, Y. Jiang, S. Kraml, *The constrained NMSSM and Higgs near 125 GeV*, Phys. Lett. B **710** (2012) 454 [arXiv:1201.0982\[hep-ph\]](#)
- (2) J. F. Gunion, Y. Jiang, S. Kraml, *Could two NMSSM Higgs bosons be present near 125 GeV?* [arXiv:1207.1545\[hep-ph\]](#)
- (3) A. Drozd, B. Grzadkowski, J. F. Gunion and Y. Jiang, *Two-Higgs Doublet Models and Enhanced Rates for a 125 GeV Higgs* (to be submitted to Phys. Rev. D)
- (4) J. F. Gunion, Y. Jiang, S. Kraml, *New 125 GeV-Higgs NMSSM Scenarios* (to be submitted to JHEP)

(ii) Thesis

- (1) Y. Jiang, *The Phases of Supersymmetric Black Holes in Five Dimensions* (MSc), [pdf~format](#)
- (2) Y. Jiang, *NJL Model and Its Application in the Mesons* (BS)

(iii) Talks and Presentations

- (1) *The constrained NMSSM and Higgs near 125 GeV*, Implication of a 125 GeV Higgs Boson Workshop, LPSC-Grenoble, France, 01/30/2012 [Slides](#)
- (2) *125 GeV Higgs*, UCD HEFTI LHC Lunch, Davis, 02/22/2012 [Slides](#)

(iv) Summer Schools and Workshops Attended

- Apr. 2011 The Tau Portal Workshop
University of California, Davis
- Apr. 2011 SUSY Recast Workshop
University of California, Davis
- Nov. 2011 Hidden SUSY Workshop
University of California, Davis
- Jan. 2012 School and Workshop on Strongly Coupled Physics Beyond the Standard Model
The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy
- Jan. 2012 Implication of a 125 GeV Higgs Boson Workshop
LPSC-Grenoble, France
- Apr. 2012 Dark Matter in Collision Workshop
University of California, Davis
- Jul. 2012 SSI 2012 “The Electroweak Scale: Unraveling the Mysteries at the LHC”
SLAC National Accelerator Laboratory, Stanford University

(v) Conferences Attended

- Nov. 2007 Conference in honor of C.N.Yang’s 85th Birthday
Nanyang Technological University, Singapore
- Nov. 2008 Particle Physics, Astrophysics and Quantum Field Theory: 75 Years since Solvay
Institute of Advanced Study, Singapore
- Feb. 2010 Conference in honor of Murray Gell-mann’s 80th Birthday
Institute of Advanced Study, Singapore

Research Fields

- Higgs bosons physics
- Physics modeling and collider phenomenology beyond the Standard Model (SM)
 - SUSY extension: the next-to-minimal supersymmetric SM (NMSSM) and the minimal composite supersymmetric SM (mCSSM)
 - Non-SUSY extension: extended scalar dark matter (DM) model, warped models with extra dimensions, etc
- Dark matter

Computation Skill

- Coding: Fortran, C++
- Editing: LaTeX, Vim
- Plotting: Mathematica, GNUPlot, JaxoDraw
- HEP Packages: NMSSMTools, MCSSMTools, micrOMEGAs, 2HDMC, FeynRules

Professional Activities

Sep. - Nov. 2008 Student Assistant for PAQFT Conference, IAS, Singapore

Jan. - Feb. 2010 Student Helper Leader for Gell-mann's Conference, IAS, Singapore