

CHAD FLORES

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Current Ph.D. candidate in Experimental Nuclear Physics with a strong mathematical and problem solving background.
Experienced in: ◊ Statistical Analysis ◊ Large Data Sets ◊ Collaboration ◊ Data Acquisition ◊ Communication

EDUCATION

- University of California, Davis** Expected Spring 2017
Ph.D Physics, Experimental Heavy Ion Physics
Thesis: Upsilon production and suppression in 5.02 TeV nuclear collisions at the LHC
- University of California, Davis** December 2012
M.S. Physics
- University of California, Davis** June 2011
B.S. Physics, with Honors

WORK EXPERIENCE

- University of California, Davis** December 2012 - Present
Graduate Researcher Davis, CA
- Member of the *Compact Muon Solenoid (CMS)* Collaboration at the *Large Hadron Collider (LHC)*
 - Collaborate with members from USA, Switzerland, France, Korea, and India.
 - Daily work with *CMS* Software Framework and distributed grid job submission to analyze data and Monte Carlo simulations.
 - Experience in analyzing proton and nucleus collisions from simulated and collected data on the order of billions of events to study properties of dense nuclear matter such as temperature.
 - Detector On Call Expert, responsible for monitoring a specific muon detector sub-system during data taking to ensure quality operation of high voltage and low voltage system as well as the triggering of muons.
 - Currently developing an automated low voltage monitoring for the muon detector control system using SQL and Python.
- University of California, Davis** September 2011 - June 2014
Graduate Teaching Assistant Davis, CA
- Directed advanced physics lab course on the use of electronics and computers for experimentation.
 - Led various introductory physics labs and discussions for both life science and physical science.
- University of California, Davis** April 2010 - September 2011
Undergraduate Researcher Davis, CA
- Developed live monitoring system for etching irradiated polycarbonate membrane films.
 - Experience in thin film preparation and deposition using UHV magnetron sputtering.
 - Produced magnetic/metallic nanowires using electrochemical deposition.
- j.c. brennan & associates, Inc.** March 2007 - August 2007
Sound and Vibration Control Technician Auburn, CA
- Field studies for noise and vibration measurements and analysis of data collected.
- Air Tech Sales** March 2006 - March 2007
HVAC Mechanical Equipment Estimator Roseville, CA
- Analyzed mechanical portion of building blue prints for HVAC equipment specifications and produced quotes.

SKILLS AND AWARDS

Computing Linux/UNIX, C/C++, ROOT, Python, LabView, HTML, L^AT_EX, SQL

2014 Chateaubriand Fellow at École Polytechnique and CERN (France).
2011 Cal Aggie Alumni Outstanding Senior Award, UC Davis Physics.