Curriculum Vitae

Luc Meniolle d'Hauthuille
Graduate Physics Student
University of Maryland, College Park

EDUCATION

University of California, Santa Cruz, CA — Fall 2014 - Spring 2017
BS Physics, *Minor:* Computer Science | Cumulative GPA: 3.75

Cabrillo College, Aptos, CA — Fall 2011 - Spring 2014
Physics GPA: 4.0 | Cumulative: 3.35

SKILLS

Programming Languages: Python, Java, C++ and Matlab.

Computer Skills: Mathematica, COMSOL Multiphysics, PSpice, UNIX command-line interfaces, LaTeX, DataStudio, and Microsoft Office Suite.

Languages: Bilingual/native proficiency in French and English, professional working proficiency in Spanish.

RESEARCH EXPERIENCE

Research Assistant — Feb 2015 - Jun 2017
Santa Cruz Institute for Particle Physics
Santa Cruz, CA

Summer Undergraduate Research Fellow — Jun 2016 - Aug 2016
University of California, Irvine
Irvine, CA

SULI Intern — Jun 2015 - Aug 2015
Princeton Plasma Physics Laboratory
Princeton, NJ

TEACHING EXPERIENCE

Graduate Teaching Assistant — Aug 2017 - Present
University of Maryland
College Park, MD

STEM Tutor — Sept 2013 - Dec 2016
Math Engineering Science Achievement Center, Cabrillo College
Aptos, CA

Teacher's Assistant/Reader — Feb 2013 - Dec 2014
Physics Department, Cabrillo College
Aptos, CA

Physics Tutor — Feb 2013 - Dec 2016
Physics Learning Center, Cabrillo College
Aptos, CA

PUBLICATIONS

Y. Zhai, L. d'Hauthuille, C. Barth, C. Senatore, "Finite-Element Analysis of Transverse Compressive and Thermal Loads on Nb3Sn Wires With Voids", IEEE Trans. Appl. Supercond., vol. 26, no. 4, June. 2016.

L. d'Hauthuille, Y.Zhai, "Numerical Stress Analysis during Cooldown and Compressive Loading in a Defective Superconducting Nb3Sn Wire", Fusion Science & Technology, 2016 Technology of Fusion Energy Proceedings, March 2017.

AWARDS

Summer Undergraduate Research Fellowship June 2016
(Awarded by University of California Irvine)

Ted Bowen Memorial Endowment Scholarship June 2014

Ted Bowen Memorial Endowment Scholarship May 2013
(Awarded by Physics Department of Cabrillo College)

"Nobel Prize" for Excellence in the Lab Nov 2013
(Awarded by Physics Department of Cabrillo College)

PRESENTATIONS

"Simulating Intense Laser-Nanodiamond Interactions for Ion Acceleration" Nov 2016
APS Division of Plasma Physics, San Jose, CA

"Using the BeamCal to Reconstruct IP Parameters" Sep 2016
SiD Optimization Workshop, Pacific Northwest National Lab, WA

"Finite Element Analysis of Transverse Compressive Loads and Cooldown on a Defective Nb3Sn Superconducting Wire" Aug 2016
Technology of Fusion Energy, Philadelphia, PA

"Simulating Intense Laser-Nanodiamond Interactions for Ion Acceleration" Aug 2016
UC Irvine Summer Research Symposium, Irvine, CA

"Power draw of the Beam Calorimeter as a Function of Temperature and Radiation Dosage" Mar 2016
28th FCAL Collaboration Workshop, Joint Institute for Nuclear Research, Dubna, Russia

"Finite Element Analysis of Transverse Compressive Loads on a Nb3Sn Superconducting Wire Containing Voids" Aug 2015
SULI Summer Symposium, Princeton, NJ