

# Olexiy Dvornikov

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## EDUCATION

### U.H. MANOA

PH.D. PHYSICS

2017 - Present | GPA: 3.8

### SAN DIEGO STATE UNIVERSITY

M.S. PHYSICS

2015 - 2017 | GPA: 3.9

### SAN FRANCISCO STATE UNIVERSITY

2014 - 2015

### UC SAN DIEGO

B.S. ASTROPHYSICS

2010 - 2014 | GPA: 3.6

Provost Honors (8 Quarters)

### HIGH SCHOOL

FOLSOM HIGH SCHOOL

2006 - 2010

President of INTERACT (Rotary)

## SKILLS

### PROGRAMMING

C | ROOT | Python | Mathematica | L<sup>A</sup>T<sub>E</sub>X

### LANGUAGES

Ukrainian | Russian | French | German

## RESEARCH

### NEUTRINO PHYSICS ADVISOR | JELENA MARICIC

May 2018 - Present | U.H. Manoa

Building prototype detectors and analyzing data for DUNE.

(Deep Underground Neutrino Experiment)

Collaborate w/ and travel to Fermilab (Chicago) and CERN (Geneva).

### COSMOLOGY ADVISOR | CHAD KISHIMOTO

Dec 2015 - May 2017 | San Diego State University

Modeled neutrinos produced via a lepton asymmetry in the early universe.

### LATTICE THEORY ADVISOR | JEFF GREENSITE

Nov 2014 - Jan 2015 | San Francisco State University

Performed computations on a lattice.

### HIGH ENERGY PHYSICS ADVISOR | AVI YAGIL

July 2013 - Jan 2014 | UC San Diego

Studied simulations of top quark decays.

## TEACHING

### U.H. MANOA | TEACHING ASSISTANT

August 2017 - May 2018 | Supervisor: Philip von Doetinchem

Taught 3 labs of PHYS151L/170L: Mechanics

Set up lab equipment and trained other TAs

### U.H. MANOA | GRADER

August 2017 - December 2017 | Professor: Danny Marfatia

Graded for PHYS272: E & M and Optics

### U.H. MANOA LEARNING EMPORIUM | TUTOR

August 2017 - May 2018 | Supervisor: Michael Nassir

Tutored college physics and math (lab and lecture)

### THE TUTORING CENTER, AINA HAINA | TUTOR

June 2017 - August 2017 | Director: Jules Guerrero

Tutored kids (K-12) math, reading, writing

### SAN DIEGO STATE UNIVERSITY | LEAD TEACHING ASSISTANT

August 2015 - May 2017 | Supervisor: Murray Finegold

Taught 9 labs of PHYS182A/195L: Mechanics

Set up lab equipment and trained other TAs

### SAN FRANCISCO STATE UNIVERSITY | TEACHING ASSISTANT

August 2014 - May 2015 | Supervisor: Ron Marzke

Taught 4 labs of PHYS122: E & M, Optics, Atoms