

BRIAN D. NGUYEN

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EDUCATION

University of California, Irvine

Ph.D. in Chemistry with concentration in Chemical and Materials Physics

Sept 2016 - May 2022

University of California, Irvine

B.S. Chemistry, cum laude & B.S. Biology, cum laude

Sept 2011 - Mar 2015

WORK EXPERIENCE

Morpho Detection, LLC - Santa Ana, CA

Chemist Intern

Dec 2015 - Jun 2016

- Tested the accuracy of mass spectrometry device for bomb detection and communicated with senior scientists on the development of the devices
- Calibrated and tested the bomb detection accuracy of the devices for government certification

MEDICAL VOLUNTEERING EXPERIENCE

UCI Medical Center - Orange, CA

EMT On-Site Training

July 2018 - July 2018

- Shadowed a senior EMT on two 12 hours shifts at the emergency department
- Performed triage of incoming patients, transported patients, and taking vitals during an emergency assessment

UCI Medical Center - Orange, CA

College Volunteer

Dec 2012 - Jun 2016

- Dedicated ~ 200 hours volunteering at the ICU, emergency department, neonatal ICU, and operating room
- In the ICU, contributed to comforting patients' stay in the hospital such as bringing a bouquet of flowers and talking with the patient

RESEARCH EXPERIENCE

Graduate Researcher, Chemistry - University of California, Irvine

Advisor: Filipp Furche

Sept 2016 - present

Theory and Development Project

- Derived, developed, and applied AC-SAPT to diagnose and determine computational methods that can accurately predict noncovalent interactions

Selected Application-based Project from 3 Different Collaborations

- Communicated with experimentalists from the Vanderwal Lab at UCI and modelled the ~400,000 atoms chlorolissoclimide and 80S ribosome complex using quantum mechanics and expanding the lissoclimide family for protein synthesis inhibition; publication *in prep*

SELECTED MENTORING EXPERIENCE FROM 5 ACTIVITIES

Furche High School Outreach Program - Irvine, CA

Program Coordinator

Sept 2016 - June 2022

- Led the outreach program to provide research opportunities for underserved communities throughout the United States; cultivated a community with 21 high school students and 12 graduate mentors
- Volunteered 5000+ hours and co-authored National Science Foundation grant to support the program

SELECTED AWARDS AND HONORS

UCI School of Physical Sciences Faculty Endowed Fellowship

Jun 2021

UCI Dissertation Fellowship

Jun 2021

UCI Chancellor's Fellowship in Chemistry

Apr 2016

UCI Chancellor's Undergraduate Award of Distinction

Jun 2015

Phi Beta Kappa

May 2015

Phi Lambda Upsilon

May 2015

Hypercube Scholar Award

Jun 2014

OC American Chemical Society Undergraduate Award

Apr 2014