

# DEAN LAHANA

✉ dlahana@stanford.edu

📍 Stanford, CA

## EDUCATION

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- Stanford University** *June 2019 - Present*  
Stanford, CA  
Ph.D. Student in Theoretical Chemistry
- CUNY City College** *June 2015 - May 2019*  
New York, NY  
B.S. in Chemistry, Magna Cum Laude
- CUNY Queens College** *September 2011 - May 2015*  
Fresh Meadows, NY  
B.A. in Economics

## RESEARCH EXPERIENCE

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- Stanford University** *June 2019 - Present*  
Advisor: Todd Martínez  
Writing conical intersection optimizer for the TeraChem quantum chemistry software package. Assistant system administrator for HPC cluster consisting of over 100 nodes and 300 GPUs.
- CUNY City College** *May 2017 - May 2019*  
Advisor: Ed Hohenstein  
Studied substituent effects in the non-adiabatic dynamics of photostabilizers
- CUNY City College** *September 2016 - May 2017*  
Advisor: Dorthe Eisele  
Prepared and characterized samples of self-assembling macromolecular structures

## TEACHING EXPERIENCE

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- Stanford University**  
Teaching Assistant - Thermodynamics *April 2020 - June 2020*  
Teaching Assistant - Statistical Mechanics *January 2020 - March 2020*  
Teaching Assistant - Quantum Mechanics *September 2019 - December 2019*
- CUNY City College** *January 2019 - May 2019*  
Teaching Assistant - Analytical Chemistry
- Columbia University - CCNY Nano Program** *Summer and Winter, 2018 - 2019*  
Laboratory Instructor and Research Mentor
- Regeneron Science Talent Search** *May 2018 - December 2018*  
Assistant Research Mentor

## PUBLICATIONS AND PRESENTATIONS

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*Performance of Coupled-Cluster Singles and Doubles on Modern Stream Processing Architectures*, B. Scott Fales, Ethan R. Curtis, K. Grace Johnson, **Dean Lahana**, Stefan Seritan, Yuanheng Wang, Hayley Weir, Todd J. Martínez, and Edward G. Hohenstein, *J. Chem. Theory. Comp.* (2020), 16, 4021-4028

Virtual Conference of Theoretical Chemistry, Poster *July 2020*  
**Dean Lahana**, B. Scott Fales, Ed Hohenstein, and Todd Martinez, *Advances in Conical Intersection Optimization Methods*

CUNY City College Chemistry Honors Research Symposium, Presentation

*November 2018*

**Dean Lahana** and Ed Hohenstein, *Substituent Effects on the Excited-State Dynamics of Benzotriazole Photostabilizers*

CUNY City College Academy of Professional Preparation Annual Poster Presentation, Poster

*November 2018*

**Dean Lahana** and Ed Hohenstein, *Substituent Effects on Photostabilizer Dynamics*

## **FELLOWSHIPS AND AWARDS**

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Honorable Mention, NSF Graduate Research Fellowship Program - 2020

EDGE Doctoral Fellowship, Stanford University - 2019

Jerome Karle Award for Physical Chemistry, CUNY City College - 2019

## **WORK EXPERIENCE**

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### **Guitar Center**

*September 2012 - April 2017*

Instrument Repair Technician, Department Manager, and Sales Associate

## **TECHNICAL SKILLS**

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### **Programming:**

C, C++, Python, Julia, MATLAB, bash

### **Software & Tools:**

Linux, Electronic structure software

### **Musical Instrument Repair:**

Soldering, woodworking, multiple hand tools and shop tools