

# Nhu Q. Vu

Curriculum Vitae

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## CAREER HIGHLIGHTS

- Led a project to characterize aerosol particles in the infrared region as an undergraduate. Presented this work at 10 conferences culminating in an award from the Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Diversity in STEM Conference. (October 2016)
- Applied for and earned a position as an undergraduate researcher in the Howard Hughes Medical Institute (HHMI) Two-year Research Scholars Program. (June 2015 – May 2017)
- Completed thesis and successfully defended thesis to a panel of faculty as an undergraduate. (May 2017)
- Nominated for and awarded a summer fellowship as an academic contractor at Eli Lilly and Company in Indianapolis, IN, and conducted research in a medicinal chemistry laboratory. (May – July 2017)
- Nominated for and awarded a position as a graduate trainee in the National Institutes of Health Biotechnology Training Program. (September 2017 – May 2022)

## EDUCATION

09/2017 – Present Department of Chemistry, University of Wisconsin – Madison  
Analytical Chemistry PhD Student; Advisor: Dr. Lingjun Li

08/2012 – 05/2017 B.S. Biochemistry, California State University – Fullerton  
University Honors, Magna Cum Laude  
Emphasis in Biotechnology

## RESEARCH EXPERIENCE

01/2018 – **Present** University of Wisconsin – Madison Madison, WI  
Department of Chemistry, P.I. Dr. Lingjun Li  
Developing improved MS-based methods of neuropeptide analysis to understand the mechanisms of neuromodulation of peptide evolution and regulation

06/2017 – 08/2017 Eli Lilly and Company Indianapolis, IN  
Discovery Chemistry Research & Technologies, Research Advisor Dr. Kenneth J. Henry  
Synthesized novel inhibitors for kinases; several compounds I prepared were taken for advanced testing

01/2015 – 05/2017 California State University, Fullerton Fullerton, CA  
Department of Chemistry and Biochemistry, P.I. Dr. Paula K. Hudson  
Modeled aerosol particles by measuring infrared spectra and developing an algorithm

## JOURNAL PUBLICATIONS

2018 DeLaney, K.; Sauer, C.; **Vu, N.Q.**; Li, L.; “Recent Advances and New Perspectives in Capillary Electrophoresis-Mass Spectrometry for Single Cell “Omics”,” *Accepted to Molecules*

2018 Buchberger, A.; Sauer, C.; **Vu, N.Q.**; DeLaney, K.; Li, L.; “A Temporal Study of the Perturbation of Crustacean Neuropeptides Due to Severe Hypoxia Using 4-Plex Reductive Dimethylation,” *in preparation to be submitted to Journal of Proteome Research*

## HONORS AND AWARDS

- 2022-2017 National Institute of Health (NIH) Biotechnology Training Program (BTP) from University of Wisconsin-Madison
- 2018 Catalyst Excellence in Mentorship Scholarship from University of Wisconsin-Madison
- 2017 Pei Wang Graduate Fellowship from University of Wisconsin-Madison
- 2017 Eli Lilly and Company Summer Fellowship
- 2017 American Institute of Chemists (AIC) Award from California State University, Fullerton  
*\*Featured in The Orange County Register on May 15, 2017*
- 2017 American Chemical Society (ACS) National Meeting Travel Scholarship
- 2017-2016 Louis Stokes Alliance for Minority Participation (LSAMP) Participant from California State University, Fullerton
- 2017-2015 Howard Hughes Medical Institute (HHMI) Two-Year Undergraduate Research Scholars Program
- 2017-2013 University Honors Program from University of Wisconsin-Madison
- 2017-2012 California State University, Fullerton College of Natural Sciences and Mathematics Dean's List for 8 semesters
- 2016 Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Diversity in STEM Conference Poster Presentation Award in Chemistry  
*\*Featured in California State University, Fullerton News Source on December 1, 2016*  
*\*Featured in Người Việt (Vietnamese Newspaper) on December 6, 2016*
- 2016 Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Diversity in STEM Conference Travel Scholarship

## CONFERENCE PRESENTATIONS

- 06/2018 66<sup>th</sup> American Society for Mass Spectrometry (ASMS) Conference on Mass Spectrometry and Allied Topics; *"Characterization of Crustacean Neuropeptide Dynamics under Hypoxia Stress Using Mass Spectrometry"*  
(poster) San Diego, CA
- 05/2017 Senior Honors Projects Interdisciplinary Conference; *"Identification of  $\alpha$ - $\omega$  Dicarboxylic Acids in the Infrared Region"*  
(oral) Fullerton, CA
- 04/2017 American Chemical Society (ACS) National Meeting: **Diversity Reception and Sister Organization Student Winner Poster Session;**  
ACS National Meeting: **Division of Analytical Chemistry Poster Session;**  
*"The Application of Beer's Law to Characterize Short-Chain Dicarboxylic Acids in the Infrared Region"*  
(poster) San Francisco, CA
- 12/2016 California State University, Fullerton Department of Chemistry and Biochemistry Senior Research Poster Presentation; *"The Application of Beer's Law to Characterize Short-Chain Dicarboxylic Acids in the Infrared Region"*  
(poster) Fullerton, CA
- 11/2016 Southern California Conferences for Undergraduate Research (SCCUR); *"The Application of Beer's Law to Characterize Short-Chain Dicarboxylic Acids in the Infrared Region"*  
(poster) Riverside, CA

- 10/2016 Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Diversity in STEM Conference; *“Implementation of Beer’s Law to Characterize Short-Chain Dicarboxylic Acids in the Infrared Region”*  
(poster) Long Beach, CA
- 07/2016 California State University Symposium; *“Absorption vs. Extinction: Solutions to Particles”*  
(poster) Los Angeles, CA
- 07/2016 Southern California Undergraduate Research Symposium; *“Absorption vs. Extinction: Solutions to Particles”*  
(poster) Irvine, CA
- 04/2016 American Chemical Society (ACS) Southern California Undergraduate Research Conference (SCURC); *“Characterization of Short-Chain Dicarboxylic Acids in the Infrared Region: Implications for Climate Change”*  
(oral) Long Beach, CA
- 03/2016 33<sup>rd</sup> Informal Symposium on Kinetic and Photochemical Processes in the Atmosphere (ISKPPA); *“Absorption vs. Extinction: Solutions to Particles”*  
(poster) Irvine, CA
- 03/2016 13<sup>th</sup> Annual Natural Sciences and Mathematics – Inter-Club Council (NSM-ICC) Symposium; *“Absorption vs. Extinction: Solutions to Particles”*  
(poster) Fullerton, CA
- 11/2015 Southern California Conferences for Undergraduate Research (SCCUR); *“Absorption vs. Extinction: Solutions to Particles”*  
(poster) Claremont, CA

## MENTORING EXPERIENCE

- 2019-2018 Kristine Golden, Catalyst Mentoring Program; Department of Chemistry at University of Wisconsin-Madison  
*\*Attended Peer Mentoring Training by National Research Mentoring Network Facilitator Dr. Cheri Barta*
- 2017-2016 Cameron Cooper; Undergraduate Chemistry Research Program; California State University, Fullerton
- 2017 Cannon Savage, University Honors Peer Mentoring Program; California State University, Fullerton
- 2016 Arlet Medina and Rebecca Mano, Peer Undergraduate Mentoring Program (PUMP), Engage in STEM; Fullerton College

## COMMUNITY OUTREACH / INTERESTS

- 10/2018 Science in Action Coordinator- designed and led an engineering challenge for Expanding Your Horizon’s Conference for Middle School Girls in STEM; Union South at University of Wisconsin-Madison
- 10/2018 Volunteer Scientist for Wisconsin Science Festival; Capitol Square in Madison, WI
- 10/2018 Volunteer to be on panel to help first-year grad students transition to grad school, coordinator: Dr. Arrietta Clauss; Department of Chemistry at University of Wisconsin-Madison
- 2018-2017 Volunteer Scientist for Junior Science Café to engage students in K-12 in STEM; Discovery Center at University of Wisconsin-Madison

- 10/2017 Volunteer Scientist for Wisconsin Science Festival; Discovery Center at University of Wisconsin-Madison
- 10/2017 Helped undergraduates apply to graduate school, coordinator: Dr. Cheri Barta; Department of Chemistry at University of Wisconsin-Madison