

# Mai Anh Do

Department of Bioengineering  
Santa Clara University  
California, 95053

Tel. (757) 897-0948  
[mdo@scu.edu](mailto:mdo@scu.edu)  
<http://maianhdo.com>

## Objective

Summer internship position in biotechnology or biochemical science. San Francisco Bay Area preferred.

## Biochemical Skills

Activity Assay; Cell Cultures; ELISA; Flow Cytometry; Gel Electrophoresis; Gene Sequencing; Immunoblotting; Immunoassay; IR Spectroscopy; Liquid, Gas, and Size Exclusion Chromatography; Microscopy; PCR; Protein Purification; Restriction Digestion; SDS-PAGE; Simple and Fractional Distillation; Site-Directed Mutagenesis; Spectrophotometry, Transfection

## Computational/Analytical Skills

GROMACS, HTML/CSS, LaTeX, Molecular Dynamics, Packmol, Shell Script, Java, SQL, Avogadro, VMD, Wolfram Mathematica

## Education

- **Santa Clara University** Santa Clara, CA  
*M.S., Bioengineering* *anticipated June 2018*
  - Focus: Biomolecular Engineering
  - Relevant Courses: Gene and Cell Therapy, Biophotonics and Bioimaging
- **Christopher Newport University** Newport News, VA  
*B.S., Biochemistry* *May 2016*
  - Relevant Courses: Fundamental Molecular Biology, Cell Biology, Biochemistry, Computational Chemistry
  - **Summa Cum Laude Honors, GPA: 3.95/4.00, Dean's List Honors all semesters, invited member of Alpha Chi National College Honors Society (10% of the class)**

## Work Experience

- **Research Assistant** Newport News, VA  
*Christopher Newport University* *2013 - 2016*
  - Two projects in Computational Chemistry using Molecular Dynamics simulations performed on **Supercomputer STAMPEDE** (RAM 205 TB, Disk 1.6 PB), 3-4 days per simulation run:
    - 1) Investigated behavior of lysozyme in different solvents
      - yield: **2 publications, Summer Research Scholarship, Preston and Catharine White STEM Annual Scholarship (2 winners from all STEM students)**
    - 2) Simulated a reverse micelle as a model aerosol
      - yield: **1 publication, NSF grant proposal**
- **Teaching Assistant** Newport News, VA  
*Christopher Newport University* *2014*
  - **3/150 students selected from the Molecular Biology and Chemistry Department**
  - Taught General Chemistry review sessions

- Laboratory Assistant** Newport News, VA  
 • *Christopher Newport University* 2013 - 2015
  - Chemistry and Biology laboratory set up, reagent preparation, maintaining laboratory equipment, assisting during laboratory sessions
  - **The only assistant selected to mentor a newly-hired full-time laboratory assistant**
- Teacher** Prague, Czech Republic  
 • *GDskola School* 2011 - 2012
  - Developed course curricula and teaching materials
  - Taught Chemistry, Math, English
  - **Director's Best Teacher Award**

## Publications

- **Mai Anh Do**, Arun Sharma  
*Investigation of Deuterium Isotope Effect on Lysozyme Using Molecular Dynamics Simulations*  
 [14th Annual Graduate Research Symposium '15(GRS)], College of W&M, Williamsburg, VA, USA, 2015
- **Mai Anh Do**, Tyler Cropley, Gent Prevlukaj, Joshua D. Patterson, Arunkumar Sharma  
*Investigation of AOT Reverse Micelle as a Model Aerosol Using Molecular Dynamics Simulations*  
 [Sigma Xi 17th Annual Research Poster Session '15], poster, Newport News, VA, USA, 2015
- **Mai Anh Do**, Eric Marsan, Arun Sharma  
*Molecular Dynamics Investigation of Solvent Isotope Effect on Lysozyme (1AKI)*  
 [PAIDEIA Conference '14], poster, Newport News, VA, USA, 2014

## Service

### Reviewer

- 2015 International Conference on Sustainable Energy and Environmental Engineering (*SEEE2015*), Bangkok, Thailand, 2015
- Global Summit on Computer & Information Technology (*GSCIT*), Sousse, Tunisia, 2014

**Student Volunteer**, 13th Annual Graduate Research Symposium, College of William and Mary, USA, 2014

**Committee**, English Olympiad in the Czech Republic, 2011 - 2012

## Languages

**Czech, Vietnamese:** native speaker

**English:** proficient

References available upon request.