

# Dinh Chuong (Ben) Nguyen

Email: dchuongn@uw.edu - Cell: (615) 918-9197  
Mail: 4719 15th Ave NE, Apartment 101, Seattle, WA 98105

## Background

### Education

|                 |   |
|-----------------|---|
| Sep 2025 (Exp.) | <b>Ph.D. Molecular Engineering - University of Washington, Seattle, WA, USA</b><br>GPA: <b>3.73</b>   |
| May 2020        | <b>B.E. Chemical Engineering - Vanderbilt University, Nashville, TN, USA</b><br>Minor in Chemistry, Scientific Computing<br>GPA: <b>3.66</b><br>Chemical Engineering GPA: <b>3.76</b> |
| Jan - May 2019  | <b>Exchange Program - National University of Singapore, Singapore</b>   |

### Awards

|           |   |
|-----------|---|
| 2020      | <b>Robert D. Tanner Undergraduate Research Award</b><br>An award by Vanderbilt University's Chemical Engineering Department to the student who, by the judgment of faculty members, have performed the best research project in their year.   |
| 2017-2020 | <b>The SyBBURE Searle Undergraduate Research Program Fellow</b><br>A research immersion program from Vanderbilt that provides opportunities for students to participate in faculty-driven research, as well as resources for students to solve novel problems in team-driven "Vigilante Innovation" projects. |
| 2019      | <b>First Prize - AIChE Undergraduate Student Poster Competition</b><br>Food, Pharmaceuticals and Biotechnology I Division<br>2019 American Institute of Chemical Engineers Annual Student Conference, Orlando, FL   |

# Experience

## Research

|              |  |
|--------------|--|
| 2020–Present | <b>Pun Laboratory, University of Washington, Seattle, WA</b><br><u>Advisor:</u> Dr. Suzie H. Pun, Department of Bioengineering <ul style="list-style-type: none"><li>• Developing polymer-peptide conjugates for targeted treatment of Focal-Segmental Glomerulosclerosis</li><li>• Developing resiquimod-mannose copolymers for cancer vaccination</li></ul>  |
| 2017–2020    | <b>The Wilson ImmunoEngineering Lab, Vanderbilt University, Nashville, TN</b><br><u>Advisor:</u> Dr. John T. Wilson, Department of Chemical & Biomolecular Engineering <ul style="list-style-type: none"><li>• Led independent research project to develop a novel cationic graft copolymer platform to enhance the delivery of anionic small-molecule STING Agonists</li><li>• Synthesized and evaluated self-assembly behavior and bioactivity of 32 different polymers</li><li>• Coordinated additional validation experiments with Duvall Group at Vanderbilt</li><li>• Co-authored a patent application and a first-author manuscript</li></ul> |

## Employment

|           |  |
|-----------|--|
| 2019–2019 | <b>Teaching Assistant, Vanderbilt University, Nashville, TN</b><br>Served as a Teaching Assistant for CS 1104 - Vanderbilt's introductory programming class with Python. Held office hours to assist students with programming assignments. Interacted with 10 students/hour on average. Graded assignments and exams for a class of 100+ students |
| 2017–2019 | <b>Chemistry Storeroom Assistant, Vanderbilt University, Nashville, TN</b><br>Worked in the Stockroom for Vanderbilt's General Chemistry Teaching Laboratory. Guided students through procedural issues and helped students replace broken equipment and glassware. Maintained and refilled/restocked chemicals and analytical equipment.          |

## Professional & Student Organizations

|           |  |
|-----------|--|
| 2020      | <b>Students for Students Vietnam, Vietnam</b><br>A student organization in Vietnam offering free counseling for Vietnamese high school students regarding study abroad in the United States. Served as counselor, provided advice and counseling for 12 different students   |
| 2017–2020 | <b>Vanderbilt American Institute of Chemical Engineers (AIChE), Nashville, TN</b><br>Served as Board Member - Organized over 15 different networking, professional development events for Chemical Engineering Students. Developed novel programs to help students participate in National Conference events, such as ChemE Jeopardy. Developed a WordPress-based website for organization |
| 2019      | <b>Vanderbilt Alternative Thanksgiving/Winter Break (ATWB)</b><br>Volunteered to spend Thanksgiving Break of 2019 to do community service in homeless shelters and projects in Nashville   |
| 2019      | <b>Vanderbilt Student Volunteers for Science (VSVS), Nashville, TN</b><br>With a team of 4 fellow students, planned and taught weekly science lessons to 5th grade students at Meigs Middle Magnet School in Nashville   |

# Bibliography

## Publications

- 2020 | **Amphiphilic Polyelectrolyte Graft Copolymers Enhance the Activity of Cyclic Dinucleotide STING Agonists**  
Nguyen DC\*, Shae DC\*, Pagendarm HM, Becker KW, Wehbe M, Kilchrist KV, Pastora LE, Palmer CR, Seber P, Christov PP, Duvall CL, Wilson JT  
*Advanced Healthcare Materials*
- 2019 | **Graft Copolymers, Methods of Forming Graft Copolymers, and Methods of Use Thereof**  
Wilson JT, Shae DC, **Nguyen DC**  
US Patent Application, No. PCT/US19/58945  
WIPO Application, no. WO2020092633A1  
Filed: October 30, 2019  
Published: May 07, 2020

## Poster Presentations

- 2019 | **Vanderbilt 20th Annual Nanoscience & Nanotechnology Forum, Nashville, TN**  
Poster Title: Screening of Endosomolytic Cationic Graft Copolymers for Cytosolic Delivery of Hydrophilic Drugs
- 2019 | **AICHE Annual Student Conference, Orlando, FL**  
Poster Title: Systematic Exploration of PEG-Grafted Polyelectrolytes for Intracellular Drug Delivery  
*First Prize - Food, Pharmaceuticals and Biotechnology Division I*
- 2019 | **Biomedical Engineering Society (BMES) Annual Meeting, Pennsylvania, PA**  
Poster Title: Systematic Exploration of PEG-Grafted Polyelectrolytes for Intracellular Drug Delivery
- 2018 | **Vanderbilt 19th Annual Nanoscience & Nanotechnology Forum, Nashville, TN**  
Poster Title: Systematic Exploration of PEG-Grafted Polyelectrolytes Vehicles for Drug Delivery
- 2018 | **AICHE Annual Student Conference, Pittsburgh, PA**  
Poster Title: Systematic Exploration of PEG-Grafted Polyelectrolytes Vehicles for Drug Delivery
- 2017 | **AICHE Annual Student Conference, Minneapolis, MN**  
Poster Title: Exploring the Phase Behavior of PEG-Grafted Polyelectrolytes for Drug Delivery