

# Patrick Mannion

379 Mont Vernon Road \* New Boston, NH 03070 \* (603) 325-2518  
mannionp@emmanuel.edu

## EDUCATION:

**Emmanuel College**, Boston, MA

*Bachelor of Sciences Degree in Chemistry, Biology Minor, Pre-Med Studies*

Expected May 2023

**G.P.A.** 4.0/4.0

**Honors/Awards:** Dean's List 2019-2020, Dean's Scholarship  
Science Living-Learning Community  
Beta Beta Beta, Inducted Spring 2020

## RELEVANT COURSEWORK:

*Emmanuel College, Boston, MA*

- Principles of Chemistry I & II with Lab
- Intro to Cellular and Molecular Biology with Lab
- Organismic and Evolutionary Biology with Lab
- Calculus II

## LABORATORY SKILLS:

- Southern blotting
- Extraction and storage of biomolecules
- Gel electrophoresis
- Microscopic techniques
- Cell culture techniques
- Spectroscopic techniques
- Cell culture techniques
- Bioinformatics tools

## RESEARCH RELATED EXPERIENCES:

**Course-based Undergraduate Research Experience (CURE)** Sept – Dec 2019

*Emmanuel College, Boston, MA*

- Mine phage for proteins that are toxic when produced inside the bacterium *Mycobacterium smegmatis*
- Identify the bacterial targets of those toxic proteins
- Conduct lab research of interest to stakeholders outside the classroom

**Senior Year Researcher in AP Biology**

Sept 2018 – June 2019

*NH State Science and Engineering Expo, Concord, NH*

- *Calcium Carbonate Precipitation As A Means Of Flood Prevention*
- 2<sup>nd</sup> Place for Environmental Science 2019

**Junior Year Researcher in AP Chemistry**

Sept 2017 – June 2018

*NH State Science and Engineering Expo, Concord, NH*

- *Measuring the Effectiveness of Alkaline Foods Compared to Antacids*
- Outstanding Achievement in STEM Research Award 2018

**Lab Instructor**

Sept 2017 – June 2018

*NH Seacoast Marine Biology Land & Sea Lab, Rye, NH*

- Weather Patterns, Water Cycle, Climate Change Stations, 2019
- Salt Marsh, Invasive Species, Plankton Stations, 2018

**WORK EXPERIENCE:****Bedford Village Inn**, Bedford, NH

Summer 2019

*Server***Hillsborough County Nursing Home**, Goffstown, NH

Summer 2018

*Dietary Aide***ADDITIONAL SKILLS:****Computer:** Proficient in Microsoft Excel, PowerPoint, Word and Google.docs**Language:** Multilingual in conversational French and proficient in Latin**VOLUNTEER EXPERIENCE:****Hugh O'Brien Youth Leadership Program**

2016-2019

President's Gold Volunteer Service Award 2018 for 250+ hours of service in 1 year

- Volunteered at nursing home, library, food pantry, veterans

**EXTRACURRICULAR ACTIVITIES:****Emmanuel College** Biology Club 2019-2020, Chemistry Honors Group 2019-2020

NCAA DIII Mens Volleyball Team 2019-2020

Pep Band trombone &amp; Campus Ministry ukulele 2019-2020

**Goffstown High School** Captain Varsity Volleyball Team 2018 & 2019

Student Council Executive Board Historian and Class of 2019 Treasurer 2015-2019

National Honor Society President, Peer Tutor 2017-2019