

# Sethatevy Bong

✉ [tevybong@gmail.com](mailto:tevybong@gmail.com)

☎ (240) 374-8056

📍 Northampton, MA



## EDUCATION

### Smith College

*B.A in Computer Science and Minor in Statistical and Data Science* | GPA: 3.61

Anticipated May 2022  
Northampton, MA

### Montgomery College

*A.A in Information System* | GPA: 3.91, Honors

May 2020  
Rockville, MD

**Relevant Coursework:** Algorithms | Introduction to Software Engineering | Systems Analysis and Designs | Data Ethnography | Introduction to Data Science | Microprocessor and Assembly Languages | Theoretical Computation

## PROFESSIONAL EXPERIENCES

### Smith College | Toyota Research Institute (TRI)

Research Assistant

Sep. 2021 – Present  
Northampton, MA

- Investigate methods to build a story generation system with NLP using **Emacs**, **Slime**, and **CLisp**

### Vertex Pharmaceuticals

Process Excellence Intern

Jun. 2021 – Aug. 2021  
Remote, MA

- Built applications to automate disassembly and assembly tasks with **Tulip** and **Asana** for manufacturing equipment
- Developed a mobile application for a massive ~2300 parts pill producer disassembly build-out
- Designed user interface and added procedural content from **QDocs** to optimize UI/UX and support on-site operators
- Coordinated a project interfacing **Tulip** and **OSI PI** using **RESTful API**, and **PI Asset Framework Server**

### National Institute of Standards and Technology

Research Intern

Jan. 2020 – Aug. 2020  
Gaithersburg, MD

- Developed two **MATLAB** programs to assess the measurement error of surface texture for metal additive manufacturing
- Identified surfaces' defects on 17M data points using two-dimensional and three-dimensional data visualization
- Established a fitted function of over 94% accuracy for noise and surface data

## PROJECTS

### Stock Prediction Using Machine Learning (Python)

(Individual) Jul. 2020

- Develop tree and linear regression prediction models using **Scikit-Learn**, **Pandas**, and **Matplotlib** libraries
- Visualize each model with comparison to the existing stock trend to distinguish the algorithm's accuracy

### Object Detection (Python and OpenCV)

(Individual) Dec. 2020

- Implement **SSD MobileNetV3** algorithm to identify multiple objects
- Utilize **COCO** dataset to recognize 80 types of objects in an image, a video, and a live webcam

### Data Analytics: [The Power of Bicycles to Fight Climate Change](#) (R and SQL)

(Group) Dec. 2020

- Utilized **RMarkdown** to import the 2017 weather data in New York City
- Leveraged **Leaflet**, **sf**, and **RMYSQL** to create spatial data for the top 50 busiest stations of Citibikes in the NYC

## LEADERSHIPS & AWARDS

### Team Leader, *Best Partnership Award*, *Smith Prize in Entrepreneurship*

Spring 2021

### President, *Society of Women Engineers*, *Smith College*

Summer 2021 – Present

- Leading and directing social events for 150 active members

### Vice-President, *Phi Theta Kappa (PTK)*, *Montgomery College*

Spring 2019 – Spring 2020

- Organized events and promoted social connectivity and communal involvement to 400 members

### Research Assistant, *The John W. Kluge Center*, *Library of Congress*

Aug. 2019 – Jan. 2020

- Investigated the security of national election infrastructures created by private entities

### Math Tutor, *Ackerman Learning Center*, *Montgomery College*

Jan. 2019 – Oct. 2019

## SKILLS & SOFTWARES

**Programming:** Java, R, Python, CLisp, MATLAB, HTML, JavaScript, CSS, and C

**Certification:** IBM Machine Learning with Python

**Technical skills:** NumPy, Scikit-Learn, Matplotlib, Tidyverse, Figma, Blender, PuTTY, Ruby on Rails, DaVinci Resolve, and Amazon Web Services (AWS)