

# Elliot Michael Lee

*Highly motivated young scientist with 5 years of research experience in the fields of Molecular Biology, Synthetic Biology, and Microbiology. Skilled in computer programming and statistics. Aspires to become a professor and improve science education in colleges.*

## PROFESSIONAL EXPERIENCE

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### **Fredricks Lab**

**Seattle, WA**

*Graduate Research Assistant*

*June 2019 – Present*

- Investigating transitions of the microbiome from a healthy state to dysbiosis
- Developing a bioinformatics pipeline to analyze rich proteomics data

### **Robinson Center for Young Scholars**

**Seattle, WA**

*Summer Stretch Introduction to Microbiology Instructor*

*June 2019 – July 2019*

- Planning introductory microbiology curriculum for 7<sup>th</sup>-10<sup>th</sup> grade students
- Running a classroom of 26 students for a four-week summer course

### **ARUP Laboratories**

**Salt Lake City, UT**

*Education Intern*

*June 2018 – September 2018*

- Creating an engaging activity for students in the Junior Achievement BizTown program
- Developing a science-based, Augmented Reality game for 5<sup>th</sup> grade students

### **Schneider Lab**

**Cambridge, MA**

*Graduate Research Assistant*

*January 2018 – May 2018*

- Developing Augmented Reality learning interventions to aid STEM teaching

### **Genetic Science Learning Center**

**Salt Lake City, UT**

*Programmer*

*December 2014 – August 2017*

- Creating web-based, interactive simulations of natural selection and meiosis
- Developing a computer game which teaches students about microbial diversity

### **Elde Lab**

**Salt Lake City, UT**

*Undergraduate Researcher*

*January 2014 – May 2017*

- Planning and carrying out experiments on Eosinophil Major Basic Protein
- Participating in and presenting during lab meetings

### **Max Planck Institute**

**Magdeburg, Germany**

*DAAD RISE Scholar*

*May 2016 – August 2016*

- 3-month research internship funded by the DAAD RISE program
- Conducting synthetic biology research to create artificial vesicles using microfluidics

## EDUCATION

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### **University of Washington**

**Seattle, WA**

*Doctor of Philosophy*

*Expected May 2023*

- PhD program in Microbiology

### **Harvard Graduate School of Education**

**Cambridge, MA**

*Masters of Education*

*August 2017– May 2018*

- Technology, Innovation, and Education Program

### **University of Utah Honors College**

**Salt Lake City, UT**

*Honors B.S. in Biology, minor in Computer Science*

*August 2013 – May 2017*

- Graduated Cum Laude

## SKILLS

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- Research techniques including: PCR, Western Blot, Gel Electrophoresis, Cell Culture, Bacterial Transformation, Protein Expression and Purification, PAML, Microfluidics
- Experienced in Java, C#, R, Python, Javascript, HTML, CSS, Swift, GreenSock, Unity

## **PUBLICATIONS**

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- **Rapid evolution of primate type 2 immune response factors linked to asthma susceptibility**  
Matthew F. Barber, Elliot M. Lee, Hayden Griffin, Nels C. Elde. (2016) *Genome Biology and Evolution*, 9(6), 1757 – 1765.
- **Eosinophil Major Basic Protein: The Grenade Approach to Immunity**  
Elliot M. Lee, Matthew F. Barber, Nels C. Elde. (2017), Honors Thesis.