

# ALEXANDER C. MURPH

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School Address: 701 Moore Avenue ◦ Lewisburg, PA 17837 ◦ Box C-2495

## EDUCATION

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### **Bucknell University**

*Class of 2018*

August 2014 - Present

*Lewisburg, PA*

B.S. in Mathematics, B.A. in Computer Science, Minor in Women's and Gender Studies

GPA: 3.8 out of 4.0 | Dean's List

Relevant Coursework: Linear Algebra, Probability, Statistics, Software Engineering, Real Analysis, Abstract Algebra, Calculus I-III, Introduction to Data Mining, Differential Equations

## EXPERIENCE

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### **Bucknell Geisinger Research Initiative**

*BGRI Research Apprentice*

June 2016 - Present

*Lewisburg, PA*

- Creatively uses Math & Computer Science expertise to develop predictive models with real world data.
- Shows initiative and resourcefulness in conducting individual research to solve problems obstructing progression of projects.
- Responsibly handles sensitive patient data; shows respect for the privacy of study participants.
- Team currently writing paper on first results, working on material for second publication.

### **Bucknell University Residential Education**

*Lead Residential Advisor*

August 2015 - Present

*Lewisburg, PA*

- Trained extensively on handling student concerns and engineering positive living communities.
- Oversees professional development of a staff of Residential Advisors.
- Motivates and organizes groups effectively, delegates responsibly.
- Balances the personal needs of a group of Residential Advisors with the expectations of University staff.

### **Digital Pedagogy & Scholarship**

*Data Cleaning Consultant*

June 2016 - August 2016

*Lewisburg, PA*

- Used communication skills to identify employer's goals and translate them into a system of tasks.
- Organized personal schedule and set daily goals to clean and format large amounts of election data.

### **Heritage Reservation - Camp Freedom**

*Aquatics Assistant Director*

June 2011 - August 2015

*Farmington, PA*

- Instructed youth in practical skills in an outdoor environment.
- Coordinated team of staff to meet Aquatics safety standards.

## EXTRACURRICULAR WORK

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### **Bucknell Diversity Outreach Team**

*Member*

November 2015 - Present

*Lewisburg, PA*

- Actively participates in efforts at Bucknell to make community more diverse.

### **Mathematical Association of America Club**

*President*

April 2015 - Present

*Lewisburg, PA*

- Leads a group of fellow officers in the creation and implementation of monthly math-themed activities.
- Coordinates brainstorming of group; delegates tasks to capitalize on strengths of team.

## TECHNICAL SKILLS AND ACHIEVEMENTS

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### **Computer Skills - Advanced**

### **Achievements/Awards**

### **Talks and Presentations**

Python, Java, R,  $\text{\LaTeX}$ , Minitab, Microsoft Office

Eagle Scout, ResEd RA of the Year, Residential College 'Golden Pair'

Student Presenter at EPaDel Mathematics Conference