

# 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**

August 2014 - Present

*Class of 2018*

*Lewisburg, PA*

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

GPA: 3.83 out of 4.0 | Dean's List

Relevant Coursework: Linear Algebra, Probability, Statistical Inference Theory, Women and Development, Feminist Theory in Practice, Calculus I-III, Introduction to Data Mining, Differential Equations

## EXPERIENCE

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### **Bucknell Geisinger Research Initiative**

June 2016 - Present

*BGRI Research Apprentice*

*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.

### **Nielsen**

June 2017 - August 2017

*Professional Services Analytics Intern*

*Pittsburgh, PA*

- Worked independently on three separate projects to locate and eliminate inefficiencies in the Analytics and Modeling teams, shaving ~ 20 hours from weekly commitments.
- Set up and organized personal meetings with Nielsen associates to target areas of need, and used this information to formulate independent coding project to meet specific goals.

### **Bucknell University Residential Education**

August 2015 - Present

*Lead Residential Advisor*

*Lewisburg, PA*

- Trained extensively on handling student concerns and engineering positive living communities.
- Balances the personal needs of a group of Residential Advisors with the expectations of University staff.

### **Community Conduct Board**

June 2017 - Present

*Member*

*Lewisburg, PA*

- Hears cases of community and academic misconduct with a select board of faculty and staff.
- Responsibly handles student information, and holds fellow students accountable for their commitments to the academic community at Bucknell.

## EXTRACURRICULAR WORK

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### **Bucknell Diversity Outreach Team**

November 2015 - Present

*Member*

*Lewisburg, PA*

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

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

April 2015 - Present

*President*

*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, L<sup>A</sup>T<sub>E</sub>X, Minitab, Microsoft Office, C, MIPS, SAS  
Eagle Scout, ResEd RA of the Year, Residential College 'Golden Pair'  
Student Presenter at EPaDel Mathematics Conference,  
Presenter at AMIA Joint Summits 2017