

# Nathan LESNEVICH

## PERSONAL INFORMATION

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HOME ADDRESS: 418 Lafayette Ave, Catonsville, MD 21228  
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CITIZENSHIP: United States

## EDUCATION

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*Current* Bachelor of Science In Mathematics, **Bucknell University**, Lewisburg  
MAY 2019 Pursuing concentration in Pure Mathematics, and additional fulfillment of a  
Bachelor of Arts in Computer Science GPA: 3.89/4  
Thesis: Positivity Among  $P$ -Partition Generating Functions  
| Advisor: Prof. Peter McNamara

## RESEARCH EXPERIENCE

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<i>Current</i> MAY 2018	<b>Student Researcher at Bucknell Department of Mathematics</b> <i>Generating Functions in Partially Ordered Sets</i> Researched necessary and/or sufficient conditions for order relations between different labeled partially ordered set's generating functions under the $L$ -basis for quasisymmetric functions. Created program in sageMath to generate full order relations between all labeled posets of size $n$ , with functional runtime for $n \leq 5$ . This research is in pursuit of an honors thesis in mathematics.
AUG-MAY 2016-18	<b>Student Researcher at Bucknell Department of Computer Science</b> <i>Software and Differential Physiological Modeling</i> Implementing a differential model of the hormone Cortisol into HumMod, a computational model of the human body, under the supervision of Asst. Professor Christopher Dancy. Wrote several scripts in Python and R in order to measure and assess the effects of the implemented changes, as well as to compare results to measurements from other studies.
AUG-MAY 2015-16	<b>Student Researcher at Bucknell Department of Economics</b> <i>Water, Drought, and Public Policy</i> Researched and organized information for Assoc. Professor Gregory Krohn to assist in the creation of a class on the economics and of water. Created an extensive case-study of the most recent California Drought from the perspective of public policy reactions.

## WORK EXPERIENCE

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<i>Current</i> AUGUST 2016	<b>Help Session Leader at Bucknell Department of Mathematics</b> <i>Group Tutoring, Calculus 1-3</i> Lead a weekly help session whose purpose was to provide additional help to those students taking calculus classes at Bucknell University. Provided one-on-one assistance to multiple students throughout the session.
JAN-MAY 2016-18	<b>Student Grader at Bucknell Department of Mathematics</b> <i>Differential Equations, Linear Algebra, and Calculus 3</i> Assessed and administer scores of weekly and tri-weekly homework assignments in various mathematics courses.

## SCHOLARSHIPS AND CERTIFICATES

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SEPT. 2015	Four Year Bucknell Presidential Fellow
SEPT. 2015	John C. Hoover Scholarship for Students in Mathematics
SUMMER 2018	John C. Hoover Summer Research Funding Recipient
SUMMER 2017	Bucknell Program for Undergraduate Research Award Recipient
SPRING 2017	Pi Mu Epsilon Mathematics Honors Society Member
FALL-SPRING 2015-18	Bucknell University's Deans List

## COMPUTER SKILLS

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Proficient With:	Python 3 , LaTeX, C, sageMath
Experienced With:	Java 8, R, ubuntu Linux