

**Gwen E. Hartshaw**  
131 Strong Ave, Apt 2  
Syracuse, NY 13210  
gehartsh@syr.edu (570) 494-7966

#### PUBLICATIONS

- The  $^{12}\text{C}(\text{n}, 2\text{n})^{11}\text{C}$  cross section from threshold to 26.5 MeV** 2017  
M. Yuly, T. Eckart and G. Hartshaw et al. *Phys. Rev. C*. arXiv:1701.09375 [nucl-ex].
- Sentiment Analysis on the Social Networks Using Stream Algorithms** 2014  
N. Aston, T. Munson, J. Liddle, G. Hartshaw, D. Livingston and W. Hu. *Journal of Data Analysis and Information Processing*, **2**, 60-66. doi: 10.4236/jdaip.2014.22008.
- Analysis of a Measurement of  $^{12}\text{C}(\text{n}, 2\text{n})^{11}\text{C}$  Cross Sections** 2013  
G. Hartshaw, I. Love, M. Yuly et al. *Poster presented at 55<sup>th</sup> Annual Meeting of the APS Division of Plasma Physics*. BAPS.2013.DPP.JP8.130
- $^{12}\text{C}(\text{n}, 2\text{n})^{11}\text{C}$  Reaction Cross Section Measurements for Bombarding Energies 20-26.4 MeV** 2013  
M. Bienstock et al. [including G. Hartshaw] *Poster presented at 55<sup>th</sup> Annual Meeting of the APS Division of Plasma Physics*. BAPS.2013.DPP.JP8.130
- Measuring the Cross Section for the  $^{12}\text{C}(\text{n}, 2\text{n})^{11}\text{C}$  Reaction in the 20-30 MeV Energy Interval** 2013  
G. Hartshaw, K. Mann, T. Reynolds, M. Yuly et al. *Poster presented at 32<sup>nd</sup> Annual Meeting of the Rochester Symposium for Physics*.

#### ACADEMIC HISTORY

- Syracuse University** Syracuse, NY  
Ph.D. in Physics (unfinished) 2021-present  
Cumulative GPA – 3.972
- Syracuse University** Syracuse, NY  
M.S. in Mathematics 2018-2020  
Cumulative GPA – 3.593
- Lock Haven University of Pennsylvania** Lock Haven, PA  
Cumulative GPA – 3.833 2017-2018
- Houghton College** Houghton, NY  
B.S. in Physics, Minors in Mathematics and Computer Science 2010-2014  
Cumulative GPA – 3.597  
*First Year Science Honors Program*  
*Cum Laude*

## EMPLOYMENT HISTORY

### **Syracuse University**

*Graduate Teaching Assistant*

Syracuse, NY

2018-current

I led recitation sections for several classes in both the Mathematics and Physics departments. I have also been primary instructor for some of these classes. In recitations I helped review materials covered in lectures and presented new materials, as well as proctoring and grading tests and quizzes. I also have regular hours in the clinic where I help students understand the topics we are teaching them.

### **Research Foundation for SUNY**

*Student Researcher*

Geneseo, NY

Summer 2013

As part of a group of several students, I performed research using a particle-accelerator to determine the cross-section of the  $^{12}\text{C}(n,2n)^{11}\text{C}$  reaction. I helped construct the apparatus for target alignment and participated in target position on site. Additionally, I wrote most of the computer code used for data analysis.

### **Houghton College**

*Teaching Assistant*

Houghton, NY

2011-2013

I helped students in the Programming I and II classes understand the material presented and complete their homework assignments. This was done both during classes and in weekly help sessions.

## ACTIVITIES

### **Musical Ensembles**

*at Lock Haven University*

Marching Band

Symphonic Band

Jazz Band (*Vice President*)

Community Orchestra

*at Houghton College*

Symphonic Band

Pops Band

Philharmonic Orchestra

Men's Choir

### **Theatre**

*at Houghton College*

*Annie*

*The Taming of the Shrew*

### **Sports**

Lock Haven University Fencing Club

Williamsport Fencing Club

### **Volunteer Work**

World Eskimo-Indian Olympics (*in Fairbanks, AK*)

## SCHOLASTIC AWARDS AND SCHOLARSHIPS

*from Houghton College*

Outstanding Freshman Computer Science student

Outstanding 1st Year Physics student

John M. Andrews II Scholarship: Physics

Houghton College Excellence Scholarship

John M. Andrews III Scholarship (for Physics)

James Comstock Scholarship (for Engineering)

Fred J. Brotherton Charitable Foundation Scholarship