

# Kathryn Hollowood

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## EXPERIENCE

### **Rensselaer Polytechnic Institute, Troy, NY — Graduate Research Assistant**

AUGUST 2016 – PRESENT  
Center for Biotechnology and Interdisciplinary Studies

### **Roberts Wesleyan College, Rochester, NY — Teaching Assistant**

AUGUST 2014 - MAY 2016  
Facilitated understanding during laboratory activities, grading, apparatus set-up and clean-up of Physical Science 101 Lab, Physics 201/101 Lab, Physics 115 (Physics of Music).

### **Roberts Wesleyan College, Rochester, NY — Tutor**

AUGUST 2014 - MAY 2016  
Tutored for Physics 201, 202, 203, and 115 classes. Included running a study group, setting up and facilitating one-on-one peer tutoring sessions.

### **Florida Institute of Technology, Melbourne, FL — NSF REU Student**

MAY 2015 - JULY 2015  
AMALTHEA REU program in Machine Learning. A research project with a faculty mentor, graduate student mentor, and fellow REU student partner. Deliverables included a technical report, video highlights, poster, and presentation. Programming done in MATLAB and Python.

## EDUCATION

### **Rensselaer Polytechnic Institute, Troy, NY — PhD Biomedical Engineering**

AUGUST 2016 - MAY 2020 (Expected)

### **Roberts Wesleyan College, Rochester, NY — BS Physics**

AUGUST 2012 - MAY 2016  
GPA – 3.88, Magna Cum Laude

## PUBLICATIONS

Kular, D., Hollowood, K., Ommojaro, O., Smart, K., Bush, M., & Ribeiro, E. (2016). Classifying Frog Calls Using Gaussian Mixture Models. In G. Bebis, R. Boyle, B. Parvin, D. Koracin, I. Pavlidis, R. Feris, et al. (Eds.), *Advances in Visual Computing 11th International Symposium, Isvc 2015, Las Vegas, Nv, USA, December 14–16, 2015, Proceeding* (Vol. 9475, Lecture Notes in Computer Science, pp. 347–354). Springer-Verlag New York.

## SKILLS

Python, MATLAB, Java, LaTeX, Maple, Microsoft Office, LoggerPro, public-speaking

## AWARDS/HONORS

Sigma Pi Sigma Physics Honor Society, Alpha Kappa Sigma Honor Society, Who's Who Among American Colleges and Universities 2016, Ogden Family Physics Scholarship recipient May 2014 and 2015, Roberts Wesleyan College Dean's List Fall 2012 – Spring 2016.

## CONFERENCE PRESENTATIONS

Emerging Researchers National Conference in STEM, Washington D.C., February 25th – 27th, 2016. Poster Presentation – *Classifying Frog Calls Using Either Gaussian Mixture Models or Locality Sensitive Hashing.*