

## SCOTT J. RILEY II

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### EDUCATION

Frostburg State University

**B.S of Chemistry**

2007-2012

University of Maryland Baltimore County

**P.h.D in Bio-electrochemistry**

2012- Current

Thesis: Direct enhancement of Lithium Ion Battery Material via Biology

### AWARDS

Smart Grant, Frostburg State University

2010 – 2012

Appalachian Mining Scholarship for the Advancement of Science, Frostburg State University

2009 – 2010

### TEACHING EXPERIENCE

Frostburg, Department of Chemistry

**General Chemistry Tutor**

2011-2012

Assisted individual students with homework sets.

**Inorganic Chemistry Teaching Assistant**

2014

Performed all experiments prior to students to allow for troubleshooting and possible last minute changes to each experiment. Set up/Cleaned each experiment. Provided short training sessions for many of the instruments used. Graded quizzes and lab final.

**General Chemistry Teaching Assistant**

2013

Performed short lectures before each lab to prepare students. Graded all lab assignments which included pre-lab, quizzes, lab manuals, post-lab, lab reports, and lab final.

**Analytical Chemistry Teaching Assistant**

2012-2015 (on and Off)

Responsible for pre-lab, lab set up, and grading lab reports.

### RESEARCH EXPERIENCE

Frostburg State University

**Undergraduate Research Assistant**

2010 – 2012

Worked on a project focused on improving the efficiency of sequestering natural gases from shale. Experiments conducted included working with high-pressure gas systems, mass spectrometry, and lab view.

University of Maryland Baltimore County (UMBC)

**Graduate Research Assistant**

2012 – Current

Conducting research for my PhD project which centered on enhancing lithium ion batteries using biology and a multi-purpose tool kit. This has provided me with research experience involving many instruments and techniques, such as, glove boxes, fast protein liquid chromatography (FPLC), potentiostatic measurements, phage display, DNA sequencing, etc.

### PRESENTATIONS:

ACS INDIANAPOLIS, INIDANNA 2012 (246<sup>TH</sup>) (ENERGY AND FLUIDICS DIVISION) – ORAL PRESENTATION

ANNUAL BIOPHYSICAL MEETING 2015 (59<sup>TH</sup>) BALTIMORE, MARYLAND (BIOMATERIALS DIVISION) - POSTER PRESENTATION

GRADUATE RESEARCH CONFERENCE UMBC 2015 MARYLAND - POSTER PRESENTATION

NORTH EASTERN REGIONAL ACS MEETING ITHICA, NEW YORK – POSTER PRESENTATION

### LANGUAGES

[English – native language]

MEMBERSHIPS

Biophysical Society

American Chemical Society