

# April L. MacKellar

Ph.D. Candidate in Biochemistry, Duke University

## Education

**2004-Present** **Duke University**  
**Durham, NC**

Ph.D. Candidate, Biochemistry  
Thesis Advisor, Arno L. Greenleaf

**2000-2004** **Bradley University**  
**Peoria, IL**

Bachelor of Science, Biochemistry  
Graduated Summa Cum Laude

## Teaching Experience

**Fall 2005** **Duke University**  
**Durham, NC**

*Teacher Assistant for General Biochemistry I*

- Assisted Professors Greenleaf, Hsieh, and Rudolph in teaching BCH 227. Duties included running weekly small discussion group, answering student questions, making exam review sheets, and grading homework assignments and exams.

**2001-2004** **Bradley University**  
**Peoria, IL**

*Laboratory Teacher's Assistant*

- Assisted laboratory instructors for General Chemistry and Organic Chemistry laboratory courses.
- Directly instructed students, answered questions, prepared solutions, set up lab equipment, and graded lab reports.

# Research Experience

## **2006-Present American Journal Experts Durham, NC**

### *Scientific Editor*

- Edited scientific manuscripts for scientists whose first language is not English in the fields of Biochemistry, Structural Biology, Molecular Biology, Microbiology, Proteomics, Genetics, Genomics, and Cell Biology.

## **2004-Present Duke University Durham, NC**

### *Graduate Assistant under Dr. Arno L. Greenleaf*

- Explored the association of the mRNA export factor, Yra1, to the phosphorylated form of the C-terminal Domain of RNA polymerase II in *S. cerevisiae*.
- Trained undergraduates and technicians on experimental techniques.
- Served as Radiation Safety Officer and was responsible for radiation ordering, storage, inventory, and surveying.
- Served as a Teacher's Assistant for General Biochemistry, BCH 227 during Fall 2006.

## **2002-2003 USDA, NCAUR Peoria, IL**

### *Laboratory Aid*

- Extracted water-soluble and alkali-soluble proteins and lipids from corn wet milling wastes. Measured protein content, gelling and foaming properties, pH solubility, and heat capacity.

## **Summer 2002 Indiana University Bloomington, IN**

### *Summer REU Student*

- Worked with Andrew Fieg's group on the interaction between bacterial RNA and Hsq protein in the cold shock response.
- Isolated and analyzed RNA, purified protein, crosslinked protein and RNA, and performed vertical PAGE, SDS-PAGE, and autoradiography.

# Presentations and Publications

## **Posters**

- October 2006, Biochemistry Department Retreat

## **Presentations**

- February 2007, Small Eukaryotes Meeting of RTP
- October 2007, Biochemistry Department Retreat
- November 2007, Small Eukaryotes Meeting of RTP

## **Publications**