

## Graduate Research Assistant

Iowa State University  
Department of Computer & Electrical Engineering

August 2010 – August 2012  
Ames, IA  
Advisor: Santosh Pandey

Conducted research on *C elegans*, investigating response and efficacy to novel drug treatments. Designed novel microfluidic systems and fabricated devices for testing cellular cultures and micro-organisms in collaborative research.

## Teaching Interests

Biomedical Engineering, Computer Engineering, Applied Physiology, Neuroscience, Neural Implants

## Teaching Experience

### College Course Design

Purdue University

Fall 2018  
West Lafayette

Developed lecture material and laboratory curriculum for teaching programming, circuit design, and implementation of varied electronic components in a multi-computer system.

### Volunteer Teaching Assistant

GK-12 Volunteer Program  
Purdue University

Fall 2015  
West Lafayette, IN

Taught regional middle schools students basics sciences and collaborated with teaching staff to improve existing lessons. Developed lessons and exploratory lab that was taught and implemented for future years.

### SURF Mentor

Summer Undergraduate Research Fellowship Program  
Purdue University

Summer 2014  
West Lafayette, IN

Advised undergraduate researcher, instructing and teaching experimental techniques, research methods, and study design.

## Awards

Robert B Truitt Fellowship  
Fearnot-Laufman-Greatbatch Award  
NSF Graduate Fellowship Award

Awarded 2017  
Awarded 2014  
Awarded 2011