

# Seth Scientist

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## EDUCATION

### Bachelor of Science in Biology and Chemistry

Southwestern University

- Dean's List
- Beta Beta Beta (biology honor society)
- Upward Bound Mentor

May 20\_\_  
Georgetown, TX

20\_\_

20\_\_ – 20\_\_

## RELEVANT COURSEWORK

Biochemistry  
Organic Chemistry & Advanced Organic Chemistry  
Instrumental Analysis  
Cellular Physiology  
Spectroscopic Methods  
Ecology

Microbiology  
Medicinal Chemistry  
Chemistry Literature  
Organ Physiology  
Molecular Genetics  
Intermediate Inorganic Chemistry

## SKILLS

- Laboratory:** Mass spectroscopy, nuclear magnetic resonance, atomic absorbance spectrometry, UV spectrophotometry, infrared spectroscopy, various chromatographic techniques, DNA subcloning, PCR, Western blot, p1 phage transduction, aseptic technique, and prokaryotic culture
- Computer:** Microsoft Word, PowerPoint, Excel; Google Suite
- Languages:** Spanish (beginning proficiency); Japanese (beginning proficiency)

## RESEARCH EXPERIENCE

### Organic Chemistry Undergraduate Research Project

Southwestern University

- Examined possibility of using two-fold extrusion reactions in synthesis of Tamoxifen and other highly substituted olefins
- Employed standard synthetic techniques and numerous analytical methods including: mass spectrometry, nuclear magnetic resonance, infrared spectroscopy, and various chromatographic procedures

Fall 20\_\_  
Georgetown, TX

### Molecular Microbiology Undergraduate Research Project

#### SCOPE Undergraduate Research Program – Molecular Microbiology Project

Southwestern University

- Examined role of protein regulation in MucAB mediated SOS mutagenesis
- Performed *in vitro* and *in vivo* experiments to analyze post-translational degradation of MucA and its cleavage product: MucA'
- Gained hands-on experience with numerous laboratory procedures including: DNA subcloning, PCR, Western blot, aseptic technique, and prokaryotic culture
- Earned invitation to present research at national conference

Spring – Summer 20\_\_

Summer – Fall 20\_\_

Georgetown, TX

## OTHER EXPERIENCE

### Organic Chemistry Tutor

Southwestern University

- Tutored undergraduate organic chemistry students to help them understand concepts, complete homework and study for tests
- Helped all students improve overall grade in course

Fall 20\_\_ – Spring 20\_\_  
Georgetown, TX

### Anesthesia Technician

Hopkins County Memorial Hospital

- Prepared equipment and paperwork during pre-operation procedures
- Aided in insertion of arterial catheters

Summer 20\_\_  
Sulphur Springs, TX

## PRESENTATIONS

*Developing a Model for MucAB Mutagenesis: Examination of Posttranslational Pathways for MucA/MucA' Regulation in Escherichia coli.*  
American Society for Microbiology National Meeting, Orlando, FL (20\_\_)