# Roberta Anne Smith

Home address

Telephone Number/Email address

# Education

08/2015-Present College of Wooster, Wooster, OH

Anticipated graduation date: 05/2019

Current GPA 3.87/4.00

# Honors and Achievements

2017 American Chemical Society Chemistry Undergraduate Award

2017 Inducted into Sigma Xi

2016 Chittum Award for Most Outstanding Student in Organic Chemistry

2015 Valedictorian, St. Vincent’s High School, Cleveland, OH

**Research Experience**

Spring 2017 Research in the Smalley Lab (10 hrs/week)

Department of Biochemistry College of Wooster, Wooster, OH

* Help maintain lab’s animal colony
* Breed mice

Summer 2017 Biochemistry Summer Undergraduate Research Experience (40 hr/week)

The University of Iowa

Department of Biochemistry Mentor: Antonio Watson, Ph.D

* Initiated a project on the relationship between aberrant cadherin function and autism
* Isolated DNA from 13 children with autism
* Found that children with autism have a R395E mutation in the cadherin gene

Spring 2018 Research in the Smalley Lab (5 hrs/week)

Mentor: Grace Kelley, PhD

Krieger Mind/Brain Institute, Neuroscience Laboratory, Johns Hopkins University

* Initiated an independent research project, studying apoptosis of neurons in the developing visual system of fetal Rhesus monkeys through immunocytochemical processing.
* Set up policies and recommended procedures for experiments.

# Publications

Messenger, J.V., Wen, S., **Smith, R.A**. and Watson, A. Links between autism and mutations in the cadherin gene. Manuscript in preparation.

Wen S, **Smith RA**, Watson AK. Implementation of a Lung Cancer Screening Program in Two Federally Qualified Health Centers. Public Health Rep. 2021 Jul-Aug;136(4):397-402. doi: 10.1177/0033354920971717. Epub 2021 Jan 13. PMID: 33440129; PMCID: PMC8203035.

# Presentations and Abstracts

**Smith, R.A.,** Messenger, J.V., Wen, S., and Watson, A. Autistic children have mutations in Cadherin R395E. University of Iowa Summer Undergraduate Research Symposium Poster Presentation . University of Iowa, Iowa City, IA. July 2018

# Extracurricular Activities

2011-2012 General Chemistry Tutor (5 hrs/week)

2015-2016 Red Cross Volunteer (10-15 hrs/month)

2016-2018 Member of the Women’s Basketball Team

2017-2018 Volunteer, Wooster Community Hospital (5 hrs/week)