

**Roberta Anne Smith**  
Home address  
Telephone Number/Email address

## **Education**

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08/2015-Present                      College of Wooster, Wooster, OH  
Anticipated graduation date: 05/2019  
Current GPA 3.87/4.00

## **Honors and Achievements**

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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**

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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**

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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**

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**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**

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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)