

Adrienne Rodenberger

adrienne.rodenberger@hccs.edu

Houston, TX

Certification

HISD ACP-Approved Certification Area

Science 7-12

Education

The Ohio State University
Masters of Science in Analytical Chemistry by Thesis

Columbus, OH
May 2016

Lehigh University
Masters of Science by coursework

Bethlehem, PA
Dec 2011

Cedar Crest College
Bachelor of Science in Chemistry
Concentration: Forensic Science

Allentown, PA
May 2007

Related Work Experience

Houston Community College *Adjunct Chemistry professor* Sept 2020- present
Chemistry Department

- Supervised students to develop basic laboratory skills, safe practices, and scientific writing
- Maintained open communication with students and supervisors.

Houston Independent School District *Science teacher* Aug 2019- present
Eastwood Academy

- Create differentiated and engaging lesson plans to meet student needs.
- Teach AP chemistry, Pre-AP chemistry, Physics and Academic chemistry.
- Lead a PLC to collaborate and successfully plan for 120 students.
- Planning and implementing lab-based science lessons based on district standards.

The University of Texas MD Anderson Cancer Center *Institute Assoc. Sci. II* Sept. 2016 - July 2019
Applied Cancer Science Institute Houston, TX

- Independently planned and carried out recombinant protein expression and purification experiments using separation techniques.
- Used variety of analytical processes to troubleshoot problematic proteins.
- Characterized protein using analytical techniques such as differential scanning fluorimetry, SDS-PAGE, and western blot.
- Maintained laboratory notebook.
- Upon completion of protein purification, successfully provided detailed reports in a timely manner to customers.
- Communicated technical information to the lead on a weekly basis.

The Ohio State University, *Chemistry and Biochemistry Department* August 2013 – May 2016
Graduate Teaching Assistant *General Chemistry and Quant Chem. Analys.* Columbus, OH

- Supervised students to develop basic laboratory skills, safe practices, and scientific writing (max. 25 students per class).
- Facilitated discussions of classroom topics in planned weekly recitation lessons (max. 25 students per class).
- Maintained open communication with students and supervisors.
- Created weekly assessments to address curriculum needs and current student progress.

The Ohio State University, *Graduate Research* December 2013 – June 2016
Marcos Sotomayor research group Columbus, OH

- Planned, organized and carried out recombinant protein expression and purification experiments and wet chemistry techniques.
- Analysis of complex, native protein sample with electrospray ionization-mass spectrometer.
- Utilized protein structure to probe mutation differences via X-ray crystallography and molecular replacement modeling.
- Experience maintaining laboratory notebook and proficient in MS office.
- Thesis: Resolving the molecular mechanisms of inherited deafness caused by missense mutations in Cadherin-23.

ExxonMobil Research and Engineering, *Catalyst Technology* June 2007 – August 2013
Senior Research Technician – 5 patents issued Annandale, NJ

- Investigated catalyst used in petroleum processes using wet chemistry technique and analytical testing.
- Served as team member on complex, product development and manufacturing processes projects.
- Complied with all OSHA safety requirements.
- Actively participated in safety meetings by regularly presenting on a related topic.
- Gained experience running LabVIEW based equipment such as calcination and fixed-bed catalyst steaming equipment.
- Developed initial catalyst batch to scale-up procedure.

Cedar Crest College, *Academic Services* August 2005-May 2007
Instructional Assistant for Fundamental of Chemistry Allentown, PA

- Assess student needs and conducted group study activities according to the curriculum.
- Organized weekly meeting times and places.
- Maintained communications with advising center staff.

Cedar Crest College, *Academic Services* August 2004-May 2007
Peer Tutor for Organic Chemistry and Chemical Principles Allentown, PA

- Assessed student's progress to developed a tutoring plan for student's needs.

- Encouraged students to think critically by asking poignant questions.
- Actively assist students to develop study strategies.
- Created personalized practice assessments.
- Attended tutor training and development teaching sessions.

Volunteering

Volunteer, *Community Bikes Works*

May 2012-August 2013

Instructor and Mentor

Allentown, PA

- Instructed children on basic bicycle maintenance and bicycle safety.
- Mentoring a positive work ethic and responsibility for oneself.
- Committed to 13-week sessions - spring, summer, fall - one evening per week.