

American Chemical Society Scholars Program

Racquel Jemison, American Chemical Society

The American Chemical Society (ACS) Scholars Program has awarded over 3,000 college scholarships to underrepresented minority racial groups pursuing careers and degrees in the chemical sciences since 1995. The Petroleum Research Fund (PRF) has provided grants of \$50,000 to the ACS Scholars Program since 2007. The following 10 ACS Scholars have benefitted from the PRF grant during the 2018-2019 academic year and are currently renewed in the ACS Scholars Program.

1. **William Ramos (continuing from 2017-8)**, California Polytechnic State University, Chemistry. Worked with Philip Costanzo at California Polytechnic State University, San Luis Obispo on a project entitled "Using Diels-Alder Chemistry to Prepare Responsive Materials". The lab research focuses on polymer and materials synthesis and characterization, namely stimuli-responsive materials in the solution and solid states. William is a 2017 ACS Scholar and will graduate in 2021. (https://chemistry.calpoly.edu/content/faculty/costanzo_philip)
2. **Trevett Young (continuing from 2017-8)**, Louisiana Tech University, Chemical Engineering. Worked with Andrew Peters at Louisiana Tech on faster solvent annealing techniques for directed self-assembly. Peters is a new professor at the university, studying block copolymer phase separation and polymer dynamics via experimental and simulation methods. Trevett Young is a 2015 ACS Scholar and will be graduating in May 2020. (<http://www2.latech.edu/~apeters/member-apeters.html>)
3. **Diego Uruchurtu Patino (continuing from 2017-8)**, University of Texas at Austin, Chemical Engineering. Diego worked with C. Grant Willson at the University of Texas at Austin on polymer research. The group focuses on a number of types of projects, including block copolymer nanolithography, and unzipping polymers. Diego is a 2017 ACS Scholar and will graduate in 2021. (<https://willson.cm.utexas.edu/Library/index.php>)
4. **Ashley Saunders**, Pennsylvania State University, Chemistry and Forensic Science. Ashley did research with Lauren Zarzar at Penn State on controlling the optical properties of complex emulsions via γ -cyclodextrin degradation for colorimetric sensing applications. The group studies the use of multiphase droplets, patterned polymer surfaces, and solid microparticles to make patterns of iridescent color, and the comparison to their calculated predictions. Ashley is a 2018 ACS Scholar and will graduate in May, 2020. (<https://www.zarzarlab.com/>)
5. **Patricia Armenta**, University of California, Davis, Chemistry. Patricia worked with Philip P. Power on ligand synthesis. The research group does work on exotic chemistries of main and transition metal group elements, primarily anionic m-terphenyl ligands. Patricia is a 2018 ACS Scholar and will graduate in 2020. (<http://chemgroups.ucdavis.edu/~power/ppp/Home.html>)
6. **Payton Dupuis**, Montana State University, Chemical Engineering. Payton did research with Michael Mock to explore tripodal sulfur ligands with iron and cobalt for metalloenzyme models. The group does research on molecular catalysis for a variety of applications, including bioinorganic and organometallic chemistry. Payton is a 2018 ACS Scholar and will graduate in 2022. (<http://www.chemistry.montana.edu/directory/2111074/michael-mock>)

7. **Emily Rodriguez**, Ohio State University, Chemistry. Emily worked with T.V. RajanBabu at Ohio State University on cobalt(I)-catalyzed hydroboration of conjugated cyclic dienes as part of a broader effort to study enantioselective catalysis and cyclization methods that facilitates additional stereo-selective transformations.
(<https://research.cbc.osu.edu/rajanbabu.1/research/>)
8. **Brendan Grigg**, Vanderbilt University, Chemical Engineering. Brendan worked with O. Maduka Ogba at Chapman University on the computational investigation of Lewis-Acid mediated activation of sulfur (VI) fluorides for catalysis applications. Brendan is a 2017 Scholar and will graduate in 2021. (<https://sites.google.com/chapman.edu/omogroup>)
9. **Matthew Nwerem**, Chapman University, Biochemistry and Molecular Biology. Matthew worked with O. Maduka Ogba at Chapman University on the computational investigation of Lewis-Acid mediated activation of sulfur (VI) fluorides with the overarching goal of determining more efficient catalyst pathways. Matthew will graduate in 2020.
(<https://sites.google.com/chapman.edu/omogroup>)
10. **Carlos Huang**, University of Puerto Rico Mayaguez, Chemical Engineering. Carlos worked with Shannon Yee at Georgia Institute of Technology on the experimental evaluation of the temperature coefficient of quinones' redox reactions. The research group studies heat and energy flow through materials, energy conversion mechanisms, and processes to integrate into functional devices. Carlos became a Scholar in 2016 and will graduate in 2020.
(<http://www.yeelab.gatech.edu/research/>)