

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 2017-2018 academic year and are currently renewed in the ACS Scholars Program.

1. **William Ramos**, 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**, 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. **Lauren Dupuis**, Montana State University, Chemistry. Lauren worked on a convergent synthesis of diazamide A with Matthew Cook at Montana State University. The research group focuses on synthetic organic chemistry with interests in methodology, asymmetric synthesis, mechanistic elucidation, organometallic chemistry, and total synthesis. Lauren is a 2016 ACS Scholar and will be graduating in December 2018. (<https://cookresearchgroup.com/>)
4. **Camryn Purdom**, Whittier College, Chemical Engineering. Camryn worked with Song Lin at Cornell University last summer on the optimization of synthetic and purification techniques of 2,2-dimethylcyclopropyl methanone. The group focuses on electrosynthesis, asymmetric catalysis, and organic materials. Camryn is a 2017 ACS Scholar and will graduate in 2021. (<https://songlin.chem.cornell.edu/>)
5. **Diego Uruchurtu Patino**, 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>)
6. **William Trevillyan**, South Dakota School of Mines & Technology, Chemistry and Chemical Engineering double major. William worked on area-selective molecular layer deposition of siloxane, a low dielectric constant material, using a thiol-based self-assembled monolayer with Stacey Bent at Stanford University. William is a 2015 ACS Scholar and will graduate in 2020. (<http://bentgroup.stanford.edu/>)

7. **Jeremy Jack**, Florida A&M University, Chemical Engineering. Jeremy worked on the development of pseudocapacitors using reduced molybdenum materials with Leela Arava at Wayne State University. The Arava research group focuses on fundamental energy research by studying transport, kinetics, and electrocatalytic activities. Jeremy is a 2017 Scholar and will graduate in 2021. (<http://aravarlab.eng.wayne.edu/>)
8. **Cindy Estrella**, University of the Incarnate Word, Biochemistry. Cindy worked on light-induced dissociation of a 4-acetylpyridine ligand in Ruthenium (II) complexes with substituted bipyridine with Robert Garner at University of the Incarnate Word. These complexes demonstrate photochemical and photophysical properties due to the 4-substituted pyridine structure, and can result in increased emission or photoinduced ligand dissociation. Cindy is a 2016 ACS Scholar and will graduate in 2019. (<https://www.linkedin.com/in/robert-garner-1877a422/>)
9. **Carlos Huang**, University of Puerto Rico Mayaguez, Chemical Engineering. Carlos worked with Alan Goldman at Rutgers University last summer on the synthesis of $(iPr_4PSP)Ru(C_2H_4)_2$ and reactivity in olefin isomerization. The research group does primarily fundamental research in the area of synthetic chemistry, catalysis, and computational organometallic catalysis. Recently, the group has started to study the “hydrocarbylation” of olefins, which can be used for natural gas liquefaction and petrochemical conversion. Carlos is a 2016 ACS Scholar and will graduate in 2020. (<https://chem.rutgers.edu/the-goldman-group-research>)
10. **Samuel Fairchild**, Tufts University, Biochemistry. Samuel worked with Arthur Utz at Tufts University on the study of surface reactions for polyatomic molecule/metal interactions. The group focuses on using surface science tools and chemical reactions to better understand surface interactions towards heterogeneous catalysis and chemical vapor deposition applications. Samuel is a 2016 ACS Scholar and will graduate in 2020. (<http://ase.tufts.edu/chemistry/utz/progress.htm>)