ROBERT M VASQUEZ

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EDUCATION

Ph.D. Chemistry Expected 2021

University of Michigan, Ann Arbor Concentration: Organic

B.S. Chemistry 2012-2016

San Diego State University (SDSU)
Concentration: Biochemistry

PROFESSIONAL PREPERATION

Doctoral Research Assistant 2017 – Present

University of Michigan, Ann Arbor Mentor: Dr. Stephen Maldonado

Investigating surface functionalization using dehydrogenative coupling reactions using saline reagents on Si(111) to form new Si-Si bonds. Additionally, I am investigating chromophore analogs for dye-sensitized solar cells.

Undergraduate Research Assistant 2013 – 2016

San Diego State University Mentor: Dr. Douglas Grotjahn

Worked independently on a project synthesizing water oxidation (WOX) type single site metal catalysts and applying them to alkane oxidation. It was our hypotheses that our proton transferring ligands could also be applied to alkane oxidation by selectively targeting C-H bonds.

SPUR-LABS Scholar Summer 2015

University of California, Los Angeles

Mentor: Dr. Douglas Black

Studied the Rbfox family of RNA binding proteins and the multi-protein complex (LASR) it forms to elucidate the mechanism used during splicing regulation. The goal of the project was to characterize LASR and its interactions with Rbfox to determine the role it has in splicing regulation by assessing positions of sequence variation in the c-terminus of Rbfox 1.

LEADERSHIP EXPERIENCE

Tactical Aircraft Maintenance 2006 - 2010

United States Air Froce

Responsible for aircraft maintenance, inspections, repairs, and parts at home station. Selected to be Night Supervisor for shipping and receiving at Camp Warrior in Iraq.

ROBERT M VASQUEZ PAGE 2

AWARDS AND HONORS

National Science Foundation - Graduate Research Fellowship Program (NSF GRFP).	2017
Rackham Merit Fellowship (RMF) Program.	2016
3 rd place poster, inorganic section at X Simposio Internacional Investigacion Quimica	2015
En la Frontera.	
ACS Sci-Mix, San Francisco.	2014
NIH Initiative for Maximizing Student Development at SDSU.	2014
SPUR-LABS summer program at UCLA.	2015
Pfizer La Jolla Academic Industrial Relations (AIR) Diversity Research Fellowships in	2013
Chemistry.	
Shiley Life Sciences Scholarship in Chemistry	2014
Harold & June Grant Memorial Scholarship	2013

PUBLICATIONS

Publications from undergraduate work

Gerlach, D.; Siek, S.; Dalton, B.; Tesh, J.; Thompson, C.; <u>Vasquez, R.</u>; White, N.; Zeller, M.; Grotjahn, D.; Papish E. *Inorganica Chimica Acta*, **2017**, Submitted.

Siek, S.; Burks, D. B.; Gerlach, D. L.; Liang, G.; Tesh, J. M.; Thompson, C. R.; Qu, F.; Shankwitz, J. E.; <u>Vasquez, R. M.</u>; Chambers, N.; Szulczewski, G. J.; Grotjahn, D. B.; Webster, C. E.; Papish, E. T. *Organometallics*, **2017**, 36(6), pp 1091-1106.