Address: School of Molecular Sciences
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Education: **Arizona State University (ASU)**, Tempe, AZ (2016 – Present)
Ph.D. Candidate
Advisor: Gary F. Moore

Instituto Tecnólogico y de Estudios Superiores de Monterrey (ITESM), Monterrey, MEX (2009 – 2014)
B.Sc. in Chemistry
Advisor: Ernesto Mariño Ochoa

Employment: **Solanum Laboratorios, S. de R. L. de C. V.**, Santa Catarina, MEX (2014 – 2016)
Research and Development Manager
Immediate Supervisor: Ma. De Lourdes Quintero Garnica

Internships: **Arizona State University**, Tempe, AZ (summer 2011, summer 2012, summer 2013)
Undergraduate Research Assistant
Advisor: Ana L. Moore

Scholarships and Awards:

(4) Distinguished Teaching Assistant Award, by the Arizona State University School of Molecular Sciences (2019)

(3) Award for Outstanding Performance in the Bachelor in Chemistry Exit Examination (EGEL), by the National Center of Evaluation for Higher Education (CENEVAL) (2013)

(2) Dr. Xorge A. Dominguez Scholarship, by the ITESM Chemistry Department (2009–2014)

(1) Academic Talent Scholarship, by the ITESM Scholarship Department (2019–2014)

Journal Publications

(6) Reyes Cruz, E. A.; Nishiori, D.; Wadsworth, B. L.; Khusnutdinova, D.; Karcher, T.; Landrot, G.; Lasalle-Kaiser, B.*; Moore, G. F.* **Six-Electron Chemistry of a Binuclear Fe(III) Fused Porphyrin.** *ChemElectroChem* **2021**, DOI:20.1002/celc.202100550. Front Cover article. Invited Article Honoring Jean-Michel Savéant. (Contributions: spearheaded publication, performed synthesis and characterization measurements).

(5) Nishiori, D.; Wadsworth, B. L.; Reyes Cruz, E. A.; Nguyen, N. P.; Hensleigh, L. K.; Karcher, T.; Moore, G. F.* **Photoelectrochemistry of metalloporphyrin-modified GaP semiconductors.** *Photosynthesis Res* **2021**, DOI: 10.1007/s11120-021-00834-2

(4) Nguyen, N. P.; Wadsworth, B. L.; Nishiori, D.; Reyes Cruz, E. A.; Moore, G. F.* **Understanding and Controlling the Performance-Limiting Steps of Catalysts-Modified Semiconductors**. *J. Phys. Chem. Lett.* **2021**, *12*, 199–203.

(3) Wadsworth, B. L.; Nishiori, D.; Nguyen, N. P.; Reyes Cruz, E. A.; Moore, G. F.* **Electrochemistry of Polymeric Cobaloxime-Containing Assemblies in Organic and Aqueous Solvents**. *ECS J. Solid State Sci. Technol.* **2020**, *9* (6), 061018 (Invited contribution for a special issue in honor of Karl M. Kadish)

(2) Wadsworth, B. L.; Beiler, A. M.; Khusnutdinova, D.; Reyes Cruz, E. A.; Moore, G. F.* **Interplay Between Light Flux, Quantum Efficiency, and Turnover Frequency in Molecular-Modified Photoelectrosynthetic Assemblies**. *J. Am. Chem. Soc.* **2019**, *141*, 15932–15941. (cover article)

(1) Khusnutdinova, D.; Wadsworth, B. L.; Flores, M.; Beiler, A. M.; Reyes Cruz, E. A.; Zenkov, Y.; Moore, G. F.* **Electrocatalytic Properties of Binuclear Cu(II) Fused Porphyrins for Hydrogen Evolution**. *ACS Catal.* **2018**, *8* (10), 9888–9898. (cover article)

Outreach Activities

(4) Grand Award Judge at the Intel International Science and Engineering Fair, Phoenix, AZ (2019).

(3) Arizona State University's Night of the Open Door Event volunteer, Tempe, AZ (2018–2019)

(2) President of the Bachelor of Science in Chemistry Student Association (SALCQ), Monterrey, MEX (2012–2013)

(1) General Coordinator of the Bachelor of Science in Chemistry Student Association (SALCQ), Monterrey, MEX (2011–2012)

Teaching Experience

As Graduate Teaching Assistant

(16) **CHM 238 General Organic Chemistry Lab II** (Spring 2021)

(15) **CHM 234 General Organic Chemistry II** (Spring 2021)

(14) **CHM 238 General Organic Chemistry Lab II** (Fall 2020)

(13) **CHM 238 General Organic Chemistry Lab II** (Summer 2020)

(12) **CHM 237 General Organic Chemistry Lab I** (Summer 2020)

(11) **CHM 234 General Organic Chemistry II** (Spring 2020)

(10) **CHM 238 General Organic Chemistry Lab II** (Spring 2020)

(9) **CHM 433/531 Advanced Organic Chemistry** (Fall 2019)

(8) **CHM 238 General Organic Chemistry Lab II** (Spring 2019)

(7) **CHM 238 General Organic Chemistry Lab II** (Fall 2018)

(6) **CHM 237+238 General Organic Chemistry Condensed Lab I+II** (Summer 2018)

(5) **CHM 238 General Organic Chemistry Lab II** (Spring 2018)

(4) **CHM 238 General Organic Chemistry Lab II** (Fall 2017)

(3) **CHM 238 General Organic Chemistry Lab II** (Summer 2017)

(2) **CHM 238 General Organic Chemistry Lab II** (Spring 2017)

(1) **CHM 238 General Organic Chemistry Lab II** (Fall 2016)