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**Education:** **Arizona State University (ASU)**, Tempe, AZ (2016–Present)  
Ph.D. Candidate  
Advisor: Prof. Gary F. Moore

**Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)**,  
Monterrey, MEX (2009–2014)  
B.Sc. in Chemistry  
Advisor: Prof. 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 (ASU)**, Tempe, AZ (summer 2011, summer 2012, and summer 2013)  
Undergraduate Research Assistant  
Advisor: Prof. Ana L. Moore

#### **Scholarships and Awards:**

- (5) George U. Yuen Memorial Award by the Arizona State University School of Molecular Sciences (2022)
- (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**, *8*, 3614–3620. 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)

### Conference Presentations

- (2) 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. Inclusive Future Faculty Symposium 2022**, Virtual Meeting, March 2022 (Poster Presentation)
- (1) 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. Artificial Photosynthesis 2021**, Virtual Meeting, December 2021 (Poster Presentation)

### 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*

- (19) **CHM 238 General Organic Chemistry Lab II** (Spring 2022)
- (18) **CHM 234 General Organic Chemistry II** (Spring 2022)
- (17) **CHM 238 General Organic Chemistry Lab II** (Fall 2021)
- (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)