
Address: School of Molecular Sciences
Arizona State University
Tempe, AZ 85297-1604, U.S.A.

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Education: **Arizona State University (ASU)**, Tempe, AZ (2016 – Present)

Ph.D. Candidate

Advisor: Gary F. Moore

Instituto Tecnológico 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

- (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.; Nishiori, D.; [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)