Olbelina A. Ulloa
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Office: CSHP 428; 713-942-3404

Education

Doctor of Philosophy in Chemistry **May, 2015**
University of Illinois at Urbana-Champaign
Dissertation: Synthesis, Spectroscopy and Electrochemistry of Hydrogenase Mimics

Bachelor of Science in Chemistry **May, 2010**
University of Connecticut

Faculty Career

Associate Professor of Chemistry and Biochemistry **2022 – Present**
University of Saint Thomas, Houston TX

- Instructor of organic chemistry, advanced organic chemistry, general chemistry, and inorganic chemistry
- Faculty Senator (Current)
- Member of Committee on Student Research in Faculty Senate (Current)
- Researcher of electrode modification with catalyst used in hydrogen production and carbon dioxide recapturing
- Research Collaborator with Biology and Physics and Engineering Departments
- Instrument maintenance and training (GCMS, LCMS, NMR, IR)
- MSEIP mentor (2022-2024)
- ACS Chapter Mentor (2023 – 2024)
- Creator of First Gen in STEM Freshmen Symposium (2023)

Instructional Assistant Professor and Faculty Senator **2017 – 2022**
Texas A&M University at Galveston, Galveston TX

- Lead lectures in organic chemistry, general chemistry, general chemistry for engineers, and green chemistry
- Created the “Minorities in STEM” online symposium to promote the impact of scientists in minority groups
- Founded the “Math Bootcamp” summer program for underprepared first-generation students
- Organized teaching retreats and faculty workshops to aid faculty career development
- Represented the interests of the Galveston faculty as a senator in the faculty senate

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Other Relevant Experience

Certificate in Effective College Instruction **April, 2021**
ACUE and ACE

Wiess Postdoctoral Fellow in Chemistry **2015 – 2017**
Rice University, Houston TX

- Trained three undergraduates and one graduate student in peptide synthesis and characterization with traditional organic synthesis methods
- Taught Organic Chemistry I and II recitations in an active-learning classroom and guest-lectured
- Developed procedure for high-throughput screenings of peptide libraries in organometallic reactions to optimize conditions for copper catalyzed C-N bond formation in peptides (Chan-Lam coupling)
- Utilized 2D NMR, GC-MS, MALDI-MS, LC-MS, HPLC kinetics, UV-Vis, and EPR for purification and characterization of peptides, ligands and metallopeptides

Visiting Scientist **2013**
CEA-Grenoble and Université Joseph Fourier - Grenoble, France

Publications

1. Ulloa, O. A.; Huyn, H.; Richers, C.; Bertke, J.; Nilges, M.; Hammes-Schiffer, S.; Rauchfuss, T.B. Mechanism of H2 Production by Models of [NiFe]-Hydrogenases: Role of Reduced Hydrides. *J. Am. Chem. Soc.*, **2016**, 138, 9234-9245.
2. Angamuthu, R.; Chen, C-S.; Cochrane, T.; Gray, D.L.; Schilter, D.; Ulloa, O. A.; Rauchfuss, T. B. N-Substituted Derivatives of the Azadithiolate Cofactor from the [FeFe] Hydrogenases: Stability and Complexation. *Inorg. Chem.* **2015**, 54, 5717-5724.
3. Ulloa, O. A.; Lin, T.; Rauchfuss, T. B.; Gray, D. L. Diiron Azamonothiolates by the Scission of Dithiadiazacyclooctanes by Iron Carbonyls. *Eur. J. Inorg. Chem.* **2014**, 4109-4114.
4. Mbatia, H. W.; Ulloa, O. A.; Kennedy, D. P.; Incarvito, C. D.; Burdette, S. C. Iodination of anilines and phenols with 18-crown-6 supported ICl2−. *Org. Biomol. Chem.* **2011**, 9, 2987.

Languages

Spanish; fluency reading, writing and speaking
English; fluency reading, writing and speaking

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Student Honors

Graduate Assistantship in Areas of National Need Fellowship **2010 – 2012**
University of Illinois at Urbana-Champaign

G. Frederick Smith Scholarship **2010 – 2011**
University of Illinois at Urbana-Champaign

Louis Stokes Alliance for Minority Participation (LSAMP) Scholar **2006 – 2010**
University of Connecticut