

Curriculum Vitae

Santiago Toledo, Ph.D.

stoledoc@stedwards.edu[Google Scholar](#)Twitter handle: [@ToledoChemlab](#)**EDUCATION**

Ph.D. Bioinorganic Chemistry	June 2009
University of Washington, Seattle, WA	
Bachelor of Science, Chemistry	May 2004
Texas Lutheran University, Seguin, TX	
Magna cum laude	

ACADEMIC APPOINTMENTS

Associate Professor of Chemistry (TENURED)	Aug. 2019-Present
Department of Chemistry, St. Edward's University (Austin, TX)	
Chair, Department of Chemistry	June 2018-Present
Department of Chemistry, St. Edward's University (Austin, TX)	
Assistant Professor of Chemistry	Aug. 2015-Aug. 2019
Department of Chemistry, St. Edward's University (Austin, TX)	
Associate Professor of Chemistry (TENURED)	Feb. 2015-May 2015
Department of Chemistry, Texas Lutheran University	
Assistant Professor of Chemistry	Aug. 2009-Feb 2015
Department of Chemistry, Texas Lutheran University	

PUBLICATIONS CHEMISTRY (†Denotes undergraduate student co-authors; *denotes corresponding author)

Toledo, S.; Yan Poon, P.C.; Gleaves, M.; Rees, J. Rogers, D. Kaminsky, W.; Kovacs, J. *Increasing Reactivity by Incorporating π -Acceptor Ligands into Coordinatively Unsaturated Thiolate-Ligated Iron(II) Complexes*. *Inorganica Chimica Acta*, **2021**. Article ASAP. <https://doi.org/10.1016/j.ica.2021.120422>

Blade, G.A. †; Parveen, R.; Jaimes, J.L. †; Ilustre, W. †; Saldaña, D. †; Ivan, D.A. †; Lynch, V.M. Cundari, T.R.; **Toledo, S.*** *A family of structural and functional models for the active site of a unique dioxygenase: Acireductone dioxygenase (ARD)*. *Journal of Inorganic Biochemistry*, **2020**, 212, 111253. <https://doi.org/10.1016/j.jinorgbio.2020.111253>

Healy, E. F.; Flores, R.†; Lynch, V.M.; **Toledo, S.*** *Protein dynamics of [CuZn]superoxide dismutase (SOD1): How protein motions at the global and local levels impact the reactivity of SOD1*. *Journal of Inorganic Biochemistry*, **2020**, 210, 111161. <https://doi.org/10.1016/j.jinorgbio.2020.111161>

Healy, E.; Roth-Rodriguez, A. †; **Toledo, S.** *A model for gain of function in superoxide dismutase*. *Biochemistry and Biophysics Reports*. **2020**, 21, 100728. <https://doi.org/10.1016/j.bbrep.2020.100728>

Yan Poon, P.C., Dedushko, M.A., Sun, X., Yang, G., **Toledo, S.**, Hayes, E.C., Johansen, A., Piquette, M.C., Rees, J.A., Stoll, S. and Rybak-Akimova, E. *How Metal Ion Lewis Acidity and Steric Properties Influence the Barrier to Dioxygen Binding, Peroxo O–O Bond Cleavage, and Reactivity*. Journal of the American Chemical Society, **2019**, 141, 15046. <https://doi.org/10.1021/jacs.9b04729>

Ivan, D.A. †; Gremillion, A.J. †; Sanchez, A. †; Sanchez, S. †; Lynch, V.A.; **Toledo, S.A.*** *The first structural model for the resting state of the active site of nickel acireductone dioxygenase (Ni-ARD)*. Inorganic Chemistry Communications, **2018**, 89, 37-40.
<https://doi.org/10.1016/j.inoche.2018.01.014>

Brines, L.M; Coggins, M.K.; Yan Poon, P.C.; **Toledo, S.**; Kaminsky, W.; Kirk, M.; Kovacs, J.A. *Water-Soluble Fe(II)-H₂O Complex with a Weak O–H Bond Transfers a Hydrogen Atom via an Observable Monomeric Fe(III)-OH*. Journal of the American Chemical Society, **2015**, 137, 2253–2264.
<https://doi.org/10.1021/ja5068405>

Coggins, M. K.; **Toledo, S.**; Kovacs, J. A. *Isolation and Characterization of a Dihydroxo-Bridged Iron(III,III)(μ-OH)₂ Diamond Core Derived from Dioxygen*. Inorganic Chemistry, **2013**, 52, 13325-13331.
<https://doi.org/10.1021/ic4010906>

Coggins, M. K.; **Toledo S.**; Shaffer, E.; Kaminsky W.; Shearer.; Kovacs, J.A. *Characterization and Dioxygen Reactivity of a New Series of Coordinatively Unsaturated Thiolate-Ligated Manganese(II) Complexes*. Inorganic Chemistry, **2012**, 51, 6633–6644. <https://doi.org/10.1021/ic300192q>

Toledo, S. *Synthesis and Reactivity of an Expanded Family of Superoxide Reductase (SOR) Model Complexes Using N-Heterocyclic, Thiolate-Containing Ligands: Towards a Better Understanding of Structural-Functional Relationships*. Ph.D. dissertation, University of Washington, Seattle, WA. **2009**.

SUBMITTED:

Toledo, S.; Yan Poon, P.C.; Gleaves, M.; Rees, J.; Rogers, D.; Kaminsky, W.; Kovacs, J.A. *Increasing reactivity by incorporating π-acceptor ligands into coordinatively unsaturated thiolate-ligated Iron(II) Complexes*. Inorg. Chim. Acta., **2021**, manuscript under review.

IN PREPARATION:

Ramón Arrués, R.; Arancibia, R.; **Toledo, S.***; Novoa, N.* *Schiff bases and their transition metal complexes: promising biomedical and bioinorganic applications*. Applied Organometallic Chemistry, **2021**, manuscript in preparation. Invited Review.

PUBLICATIONS TEACHING AND LEARNING

Toledo, S.A.*; Dubas, J.M. *A Learner-Centered Grading Method Focuses on Reaching Proficiency with Course Learning Outcomes*. Journal of Chemical Education, **2017**, 94, 1043-1050.
<https://doi.org/10.1021/acs.jchemed.6b00651>

Toledo, S.A.*; Dubas, J.M. *Encouraging Higher-Order Thinking in General Chemistry by Scaffolding Student Learning Using Marzano's Taxonomy*. Journal of Chemical Education, **2016**, 93, 64-69.

<https://doi.org/10.1021/acs.jchemed.5b00184>

Dubas, J.M.; **Toledo, S.A.** *Taking Higher Order Thinking Seriously: Using Marzano's Taxonomy in the Economics Classroom*. International Review of Economics Education, **2016**, 21, 12-20.

<https://doi.org/10.1016/j.iree.2015.10.005>

Toledo, S.*; Dubas, J. *Active Reading Documents (ARDs): A Tool to Facilitate Meaningful Learning Through Reading*. College Teaching, **2015**, 63, 27-33.

<https://doi.org/10.1080/87567555.2014.972319>

GRANTS

Funded (external grant): Principal investigator of a National Institute of Health (NIH)-National Institute of General Medical Sciences (NIGMS) SCORE-2 grant. *An expanded family of model complexes for Nickel Acireductone Dioxygenase (Ni-ARD): Towards elucidating the role of metal identity on reactivity and mechanism*.

May 2019-April 2022. **Amount:** \$330,602.00.

Funded (Internal grant):

Principal investigator of an Institute for Interdisciplinary Science (I4) NSF-Internal Research Opportunity Award titled "Bridging the gap of the lost paradigm between protein gain of structure and mechanistic loss of function: An investigation on culprits for Amyotrophic Lateral Sclerosis (ALS)."

May 2019-August 2021 **Amount:** \$15,000.00.

HONORS AND AWARDS

2020 ACS Division of Inorganic Chemistry Award for Undergraduate Research, in the category of primarily undergraduate institutions. **Fall 2020**

Dean's Excellence in Research Award 19-20 School of Natural Sciences **Spring 2020**

Presidential Excellence Award (\$5,000). St. Edward's University competitive internal grant to support research projects. **Summer 2016**

George Kieffer Fellow in Science: Appointed by the VPAA and Rank and Tenure committee at Texas Lutheran University. **2012-2015**

"Civic Engagement Course of the Year" in recognition to the course design methodology based on civic engagement centered pedagogies an honors freshman experience course (Two consecutive years). **Fall 2012-Fall 2013**

Faculty Member of the Year **2010-2011**

- Student choice award that requires student nominations and student votes of support.

TEACHING EXPERIENCE***COURSES TAUGHT ST. EDWARD'S UNIVERSITY:***

General Chemistry I (1340), Structural Inorganic Chemistry (3334), Inorganic Chemistry I and laboratory (2334, 2134), Inorganic Chemistry II and laboratory (4325, 4125), Advanced Synthesis Laboratory (4242), Organic Chemistry I (2323), Independent study research supervisor (4157), Introduction to Research (2100), Honors Thesis, Global Engagement Living Learning Community (GE LLC) Director and Seminar instructor, General Education Capstone (Embedded Study Abroad Program).

COURSES TAUGHT TEXAS LUTHERAN UNIVERSITY CHEMISTRY:

Problem solving in Chemistry, General Chemistry I and laboratory, General Chemistry II and laboratory, Introduction to Chemistry and laboratory, Advanced Inorganic Chemistry, Biochemistry, Biochemical Principles, Senior Seminar Capstone, Independent study research supervisor, Freshman Experience Honors section, Freshman Experience regular section, Tropical Ecology Embedded Study Abroad, Intercultural and Global Perspectives Embedded Study Abroad, Honors directed readings.

MENTORING UNDERGRADUATE STUDENTS IN RESEARCH**ST. EDWARD'S UNIVERSITY****SUMMER 2015-PRESENT**

Student Collaborators: Georgia Barone, Glenn Blade, Jean-Mark Choufani, Nora Del Bosque, Bea Eamiguel, Emily El-Shaer, Rafael Flores, Christopher Gonzales, Steven Glanovsky, Taylor Hays, Alex Gremillion, Jennifer Jaimes*, Wrenell Ilustre, Denisa Ivan, Jimmy Martinez*, William Mayhew, Aurora Miranda, Maria Jose Muedano Cardenas, Barret Nabona, Shadler Nguyen, Catherine Nickel, Jemima Ohwobete, Diego Saldaña, Servando Sanchez, Avery Schimpf, Rose Smiley, Johanna Green, Anthony Sanchez*, Katherine Whitman, Saida Wiltz.

*Denotes *McNair Scholars***TEXAS LUTHERAN UNIVERSITY****Spring 2010-****Spring 2015**

Student Collaborators: Daniela Capurro, Kyle Coleman, Andres De La Garza, Vanessa Espinoza, Donjeta Gjuka, Kyle Hilsberg, Nick Kubelka, Josh Kubena, Carmen Philips, Sandra Roberts, Mary Rosegrant, Campbell Saint Vincent, Derek Royer, Clint Taylor, Kevin Windecker.

UNIVERSITY OF WASHINGTON**Fall 2006-****Spring 2009**

Student Collaborators: Jason Frankel, Leah Landsem, Brandt Pein.

INVITED RESEARCH PRESENTATIONS**November 2020**

Toledo, S. *Exploring the mechanistic and structural role of metalloenzymes in disease: A synthetic-inorganic, biomimetic chemistry approach.* American University, Virtual Seminar Series.

October 2020

Toledo, S. *Exploring the mechanistic and structural role of metalloenzymes in disease: A synthetic-inorganic, biomimetic chemistry approach.* University of Central Florida, Virtual Seminar Series.

May 2018

Toledo, S. *A family of structural analogues of the resting state of the enzyme Nickel-Acireductone Dioxygenase (Ni-ARD): Structural analysis and preliminary biomimetic reactivity.* 7th Annual Gordon A. Stone Symposium in Organometallic Chemistry. Waco, TX.

RECENT CONTRIBUTED CHEMISTRY RESEARCH PRESENTATIONS (†Denotes undergraduate student co-authors)

March 2018

Toledo, S.; Gremillion, A. †; Jaimes, J. †; Ivan, A. †; Saldaña, D. †; Sanchez, A. †; Lynch, V. *Biomimetic reactivity of a family of structural analogues of the resting state of the enzyme Nickel-Acireductone Dioxygenase (Ni-ARD).* 255th ACS National Meeting, New Orleans, LA. Published abstract (Oral).

April 2017

Toledo, S. *Expanding our understanding of Nickel-Acireductone Dioxygenase (Ni-ARD) through a family of structural analogues of the resting state of the enzyme.* 253rd National American Chemical Society Meeting, San Francisco, CA. Published abstract (Oral).

January 2018

Toledo, S.; Gremillion, A. †; Jaimes, J. †; Ivan, A. †; Saldaña, D. †; Sanchez, A. †; Lynch, V. *Using biomimetic modeling to study the enzyme Nickel ARD.* Gordon Research Conference: Metals in Biology, Ventura, CA. Published abstract (Poster).

INVITED TEACHING PRESENTATIONS

February 2021

Toledo, S. *Supporting higher-order student thinking: Leveraging learning outcomes and alternative grading structures to help students dig deeper.* University of Washington, Center for Teaching and Learning-Advances in Higher Education Research virtual seminar.

August 2020

Toledo, S. *Helping Students Focus on the Learning, Not the Grade: Alternative Grading Systems to Support Student Learning.* SLiThEr Viper virtual series. <https://www.youtube.com/watch?v=uDs2IyTg3XM>

April 2019

Toledo S. *The whirlwind journey of the first decade of an academic career at PUIs.* 257st National Meeting of the American Chemical Society, Orlando, FL, April 2019. Published abstract.

- Part of a symposium for the division of Chemical Education titled: The Tenure-Track & Beyond: Academic Career Perspectives from Young Chemists.

October 2018

Toledo, S. *A method for assigning grades using Standards Based Grading: A tool to promote student success and evaluate competency with learning objectives.* Congreso Iberoamericano de Química, XXIX Congreso Peruano de Química, Lima, Perú.

July 2018

Toledo, S.; Shepherd, T.; Dubas, J.M. *Standards Based Grading 2.0: A tool for assessing learning outcomes, increasing student success, and developing mastery of course content.* Biennial Conference on Chemical Education, Notre Dame, IN. Published abstract.

November 2016

Toledo, S. *Using Marzano's Taxonomy in Course Design.* Primer Workshop: Química Universitaria de Primer Año: Desafíos y Perspectivas. Universidad de Concepcion, Concepcion, Chile.

- Keynote speaker

April 2013

Toledo, S.; Dubas, J. *Targeting and Assessing Higher Levels of Learning: Using Marzano's Taxonomy in the College Classroom.* WAKONSE South, International Teaching Conference, Marble Falls, TX.

SELECTED CONTRIBUTED TEACHING PRESENTATIONS

August 2020

Toledo, S. *A CURE Model for Upper Division Inorganic Synthesis Laboratory Courses.* ACS Fall 2020 Virtual Meeting and Exposition. Published abstract (Poster).

July 2019

Toledo, S. *Standards Based Grading 2.0: A tool for assessing learning outcomes, increasing student success, and developing mastery of course content.* National Conference of Advanced POGIL Practitioners, St. Louis, MO (Poster).

March 2018

Toledo, S. *Standards based grading in the chemistry classroom: Assessing outcomes, making grading simple and maintaining rigor.* 255th ACS National Meeting, New Orleans, LA. Published abstract (Poster).

June 2017

Toledo, S. *Alternative Grading Methods for Assessing Learning Outcomes.* National Conference for Advanced POGIL Practitioners, Muhlenberg College, Allentown, PA. (Oral)

August 2016

Toledo, S.; Dubas, J. *Using A Hybrid Model Of Standards Based Grading And Specifications Grading To Promote Learning In The General Chemistry Classroom.* 2016 Biennial Conference on Chemical Education, Greeley, CO. Published abstract (Oral).

March 2016

Toledo, S.; Dubas, J. *Got standards? Using Standards Based Grading in the General Chemistry Classroom and Beyond.* 251st National Meeting of the American Chemical Society, San Diego, CA. Published abstract (Oral).

August 2014

Toledo, S.; Dubas, J. *Active Learning Tools in Classroom Design Using Marzano's Taxonomy.* 248th National Meeting of the American Chemical Society, San Francisco, CA. Published abstract (Oral).

July 2013

Toledo, S. *Using Marzano's Taxonomy in Course Design to Target Higher Levels of Learning in the General Chemistry Series.* POGIL Southwest Regional Workshop, Colorado Springs, CO (Oral).

TEACHING AND LEARNING WORKSHOPS FACILITATED**June 2021**

Helping students focus on the learning... not the grade. Alternative grading systems to support student learning in Chemistry. . Department of Chemistry, University of Washington-Seattle, co-sponsored by the University of Washington's Chemistry Department Diversity & Equity Steering Committee.

May 2021

Supporting higher order student thinking in Chemistry: Helping students dig deeper with the use of actionable student learning outcomes. Department of Chemistry, University of Washington-Seattle, co-sponsored by the University of Washington's Chemistry Department Diversity & Equity Steering Committee.

August 2020

Consulting with the General Chemistry coordinators of the Department of Chemistry at Lewis University.
Topic: Learning outcomes and alternative grading systems.

October 2019

Supporting higher order student thinking: Helping students dig deeper with effective outcomes and assessment. Faculty development workshop, Boise State University, Center for Teaching and Learning.

October 2019

Helping students focus on the learning... not the grade: Alternative grading systems to support student learning. Faculty development workshop, Boise State University, Center for Teaching and Learning.

May 2019

Introduction to POGIL training and facilitation workshop, Miami Dade Community College, Miami, Florida.

July 2019

POGIL training and facilitation workshop, University of Notre Dame, Biennial Conference on Chemical Education, South Bend, Indiana.

October 2018

Como utilizar la taxonomía de Marzano para escribir objetivos de aprendizaje y promover el pensamiento de alto-orden cognitivo. Congreso Iberoamericano de Química, XXIX Congreso Peruano de Química, Lima, Perú.

July 2018

South Central POGIL Regional Meeting. POGIL training and facilitation workshops. *Part of a facilitation team.

January 2018

POGIL training and facilitation workshop, Universidad del Este Carolina, San Juan, Puerto Rico.
*Part of a facilitation team.

November 2016

Teaching and Learning Workshops on Course Design Using Marzano's Taxonomy and Alternative Forms of Feedback Using Standards Based Grading. Primer Workshop: Química Universitaria de Primer Año: Desafíos y Perspectivas. Universidad de Concepcion, Concepcion, Chile.

August 2016

Taking Learning Objectives Seriously: Drafting, Using, And Evaluating Learning Objectives In Our Classroom. St. Edward's University, Annual Teaching Symposium, Austin, TX.

May 2016

Shepherd, T.; **Toledo S.** *Introduction to Process Oriented Guided Inquiry Learning: The Fundamentals*. St. Edward's University, Active Learning Faculty Workshop, Austin, TX.

November 2013

Targeting Higher Levels of Learning by Using Marzano's Taxonomy in Classroom Design. Mercer University, Macon, GA.

June 2012

Toledo, S.; Dubas, J. *Targeting and Assessing Higher Levels of Learning: Using Marzano's Taxonomy in the College Classroom*. Innovative Course Building Group (IC-bG) Summer Institute: Improving Student Learning and Faculty Success at All Levels, Macon, GA.

June 2012

Toledo, S.; Dubas, J. *Using Marzano's Taxonomy to Enhance Feedback Strategies for Students and Faculty*. San Jacinto College, Pasadena, TX.

SELECTED RESEARCH PRESENTATIONS CO-AUTHORED WITH UNDERGRADUATE STUDENTS

(†Denotes undergraduate student co-authors)

Over **34** presentations co-authored by undergraduate students at local, regional and national meetings.

August 2020

Blade, G.†; Lynch, V.; Toledo S. *Biomimetic reactivity of a family of N4O-Schiff base nickel complexes: Model compounds for a unique dioxygenase, Acireductone Dioxygenase (ARD)*. Fall 2020 Virtual Meeting and Exposition. Published abstract (Poster).

August 2020

Flores, R.†; Healy, E.; Lynch, V.; Toledo S. *Investigating the structural and electrochemical properties of a family of biomimetic models for the Cu²⁺ aberrant state of Cu,Zn superoxide dismutase (SOD1)*. Fall 2020 Virtual Meeting and Exposition. Published abstract (Poster).

April 2019

Westbrook, B.†; **Lumpan, J.†;** Toledo, S.A. *A DFT study of the structure and biomimetic reactivity of Nickel acireductone dioxygenase model systems*. 257st National Meeting of the American Chemical Society, Orlando, FL. Published abstract (Poster).

April 2019

Saldaña, D.†; Blade, G.†; Toledo, S.A. *Evidence of biomimetic type reactivity for model system of Nickel acireductone dioxygenase*. 257st National Meeting of the American Chemical Society, Orlando, FL. Published abstract (Poster).

April 2019

Jaimes, J.†; Toledo, S.A. *Probing the effects of the ligand environment on the biomimetic reactivity of a nickel acireductone dioxygenase model system.* 257st National Meeting of the American Chemical Society, Orlando, FL. Published abstract (Poster).

April 2019

Ilustre, W.†; Toledo, S.A. *Biomimetic reactivity of the first resting state analogue of nickel acireductone dioxygenase.* 257st National Meeting of the American Chemical Society, Orlando, FL. Published abstract (Poster).

October 2017

Jaimes, J. †; Lynch, V.; Toledo, S.A. *Resting State Analogue of the Active Site of Nickel Acireductone Dioxygenase: Characterization and Reactivity.* 73rd Southwest Regional Meeting of the American Chemical Society, Lubbock, TX. Published abstract (Poster).

October 2017

Saldaña, D.†; Lynch, V.; Toledo, S.A. *Oxidative biomimetic reactivity of a resting state analogue of the active site of nickel acireductone dioxygenase.* 73rd Southwest Regional Meeting of the American Chemical Society, Lubbock, TX. Published abstract (Poster).

March 2017

Ivan, D. †; Toledo, S.A.; Lynch, V. *Structural, spectroscopic and reactivity studies of the first structural model of the resting state of Nickel Acireductone Dioxygenase (Ni-ARD).* 253rd National Meeting of the American Chemical Society, San Francisco, CA. Published abstract (Oral).

March 2017

Gremillion, A. †, Sanchez, St, Lynch, D., Toledo, S. *Studying the Active Site of Nickel –Acireductone Dioxygenase through Nickel and Zinc Analogues: A structural and Spectroscopic Comparison Study.* 253rd National Meeting of the American Chemical Society, San Francisco, CA. Published abstract (Poster).

November 2016

Sanchez, A. †; Lynch, V.; Toledo, S. *Structural Analogues of the Active Site of Nickel Acireductone Dioxygenase.* 72nd Southwest Regional Meeting of the American Chemical Society, Galveston, TX. Published abstract (Poster).

November 2016

Green, J. †; Lynch, V.; Toledo, S. *Modeling the Active Site of Nickel Acireductone Dioxygenase: Ligand Synthesis and Structural Analogues.* 72nd Southwest Regional Meeting of the American Chemical Society, Galveston, TX. Published abstract (Poster).

March 2016

Ivan, D. †; Gremillion, A. †; Sanchez, S. †; Toledo, S.; Martin, B. *Spectroscopic and Structural Characterization of a Biomimetic Model for the Active Site of Ni-ARD.* 251st National meeting of the American Chemical Society, San Diego, CA. Published abstract (Poster).

November 2014

Espinoza, V. †; Capurro, D. †; Riske, M. †; De La Garza, A. †; Saint Vincent, C. †; Martin, B.; Toledo, S. *Nickel Acireductone Dioxygenase Biomimetic Structural Model Complexes*. 70th Southwest Regional Meeting of the American Chemical Society, Fort Worth, TX. Published abstract (Poster).

November 2013

Petri, M. H. †; Kubena, J.W. †; Phillips, C. †; Gjuka, D. †; Roberts, S.J. †; Windecker, K. †; Hilsberg, K. †; Taylor, C. †; Martin, B.; Toledo, S.; *Nickel for Your Thoughts: Biomimetic Modeling of Nickel Acireductone Dioxygenase's Active Site, the Other Side of the Coin*. 69th Southwest Regional Meeting of the American Chemical Society, Waco, TX. Published abstract (Oral).

- Petri won second place for best undergraduate presentation at this conference

SELECTED FACULTY SERVICE WORK

Spring 2020-Present

Co-Chair Awards Committee, Division of Inorganic Chemistry, American Chemical Society.

November 2020

External examiner for the Ph.D. defense of Kortney Melancon, Thomas Cundari Lab, University of North Texas Department of Chemistry.

June 2018-Present

POGIL project: Member of the Diversity and Inclusivity strategic planning committee working group.

August 2019-Present

Member of the Institutional Assessment Committee

August 2015-Present

Member of the Faculty Committee on Diversity and Inclusivity (FCDI), working group on faculty retention and recruitment

January 2019-December 2019

President's Advisory Council for Respectful, Inclusive Community.

Fall 2017-Present

Faculty representative in the Health Professions Advisory Committee (HPAC)

Search committees:

September 2020-March 2021

Elected Chair, Dean of the School of Natural Sciences

Fall 2020

Member of the search committee for the Director of Institutional Assessment

Fall 2019

Chair, Tenure-track and Lecturer positions for the Department of Chemistry

REVIEWER

Journal of Chemical Education; Inorganic Chemistry Communications; New Journal of Chemistry; International Journal of STEM Education

Selected Professional Development:

	June 2018, 2019, 2020, 2021
POGIL National Meeting	February 2019
Alliance of Hispanic Serving Institution Educators (AHSIE) NSF Grantsmanship Institute, Phoenix, AZ.	February 2019
36th Academic Chairpersons Conference (ACC), Houston, TX	October 2018
Congreso Iberoamericano de Química, XXIX Congreso Peruano de Química, Lima, Perú.	September 2018
Council of Colleges of Arts and Sciences (CCAS) Department Chairs Seminar, San Diego, CA.	January 2018
Gordon Research Conference: Metals in Biology, Ventura, CA.	July 2017
AAC&U PKAL STEM Leadership Institute. Fellow.	June 2017, June 2019
National Conference for Advanced POGIL Practitioners, Muhlenberg College, Allentown, PA.	November 2016
Primer Workshop: Química Universitaria de Primer Año: Desafíos y Perspectivas, Universidad de Concepción, Concepción, Chile.	January 2017
2017 POGIL Facilitator Training Workshop, San Antonio, TX.	August 2016
Teaching Symposium: A Conference on College Teaching, St. Edward's University, Austin, TX.	August 2016

2016 Biennial Conference on Chemical Education, University of Northern Colorado, Greeley, CO.

June 2016

Organometallica: An IONiC Summer Workshop at the Frontiers of Inorganic Chemistry (NSF funded workshop).

June 2016

Southwestern University-HHMI Transforming STEM Pedagogy Conference, Georgetown, TX.

April 2016

2016 Summit for Transforming STEM Teaching in Higher Education, Boise, IA.

February 2016

New American Colleges and Universities Science Summit, Belmont University, Nashville, TN.

Summer 2014

Biennial national conference of the Council of Undergraduate Research (CUR) in Washington, DC.

Spring 2013, 2014, 2015

Wakonse South International Conference on College Teaching.

Summer 2013

McCallister and Quinn two-day workshop on grant writing opportunities. Washington, DC.

Summer 2013

Process Oriented Guided Inquiry Learning (POGIL) Southwest Regional Workshop, Colorado Springs, CO.

December 2012

Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) annual meeting, Dallas, TX.

June 2012

Innovative Course Building Group (IC-bG) Summer Institute: Improving Student Learning and Faculty Success at all Levels, Macon, GA.

February 2012

12th Annual Texas A&M Assessment Conference, College Station, TX.

November 2011

National Science Foundation (NSF) grant writing workshop at Texas A&M University Commerce, Commerce, TX.

June 2011

National Faith, Justice & Civic Learning conference, DePaul University, Chicago, IL.

Summer 2010

Davidson's college Synthetic Biology (G-CAT) faculty workshop.

March 2010

University of North Texas Next Generation Course Redesign™ workshop on "experiential learning" and "high-impact" learning course redesign practices.

PROFFESIONAL MEMBERSHIPS

American Chemical Society

2002-Present

- Division of Inorganic Chemistry

Council of Undergraduate Research

2015-Present

LANGUAGES

- English
- Spanish (native tongue)