
Gabriel Ménard – Curriculum Vitae

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Department of Chemistry and Biochemistry
University of California, Santa Barbara
Santa Barbara, CA, 93106, USA

Professional Experience

Assistant Professor

July, 2015 – present

Department of Chemistry and Biochemistry
University of California, Santa Barbara

Academic History

Postdoctoral fellow (NSERC-PDF)

April, 2013 – March, 2015

Harvard University, Cambridge, MA.
Research supervisor: Prof. Theodore A. Betley
Title: "Polynuclear Metal Complexes for Multielectron Reactions"

Doctor of Philosophy (Ph.D.), Chemistry

January, 2009 – February, 2013

University of Toronto (U of T), Toronto, ON.
Research supervisor: Prof. Douglas W. Stephan
Title: "Small Molecule Activation and Transformation Using Aluminum-Based Frustrated Lewis Pairs"

Master of Environmental Studies (M.E.S.) – part-time

September, 2008 – May, 2010

York University, Toronto, ON.
Research supervisor: Prof. José Etcheverry
Title: "Climate Change, Development, and the Role of Environmental Non-Governmental Organizations: A Case Study of Mali and the Mali-Folkecenter Nyetaa"

Master of Science (M.Sc.), Chemistry

September, 2006 – May, 2008

University of British Columbia (UBC), Vancouver, BC.
Research supervisor: Prof. Michael D. Fryzuk
Title: "New Ligands for Early Metal Activation of Molecular Nitrogen"

Bachelor of Science (B.Sc.), *Summa Cum Laude*, Chemistry

September, 2002 – May, 2006

University of Ottawa (U of O), Ottawa, ON.
Research supervisor: Prof. Sandro Gambarotta
Title: "Ligand Backbone and Electronic Effects on Ethylene Oligomerization Using Cr Catalysts"

Awards and Scholarships

Awards:

2019	Regents Junior Faculty Fellowship (UCSB)
2019	Hellman Faculty Fellow (UCSB)
2017	Faculty Career Development Award (UCSB)
2016	Kavli Frontiers of Science Fellow
2014	Canadian Council of University Chemistry Chairs (CCUCC) 2013 Chemistry Doctoral Award Winner.

2014	Dimitris N. Chorafas Doctorate Prize (Feinberg Graduate School, Weizmann Institute of Science).
2014	Governor General of Canada's Gold Medal Prize for doctoral dissertation.
2014	Department of Chemistry Chair's Doctoral Award (U of T).

Scholarships:

Apr. 2013 – Mar. 2015	NSERC – Postdoctoral fellowship.
Sept. 2012 – Mar. 2013	Queen Elizabeth II Graduate Scholarship.
Sept. 2010 – Aug. 2012	NSERC – Postgraduate Scholarship (Doctoral).
Sept. 2010 – Aug. 2012	Walter Sumner Fellowship.
Sept. 2009 – Aug. 2011	Helen Sawyer Hogg Award (U of T).
Sept. 2008 – Aug. 2010	Ontario Graduate Scholarship.
2006 – 2008	NSERC – Postgraduate Scholarship (Masters).
2006 – 2008	Gladys Estella Laird Fellowship (UBC).

Contributions to Research**Independent Career Publications**

1. Keener, M.; Matthejat, M.; Zheng, S.-L.; Wu, G.; Hayton, T.W.; Ménard, G. "Selective Electrochemical Capture and Release of Uranyl from Aqueous Alkali, Lanthanide, and Actinide Mixtures using Redox-Switchable Carboranes." *Submitted 2021*.
2. Wang, Z.; Johnson, S. I.; Wu, G.; Ménard, G. "Multiple N–H and C–H Hydrogen Atom Abstractions Through Coordination-Induced Bond Weakening at Fe-Amine Complexes." *Submitted 2021*.
3. Wong, A.; Chu, J.; Wu, G.; Telser, J.; Dobrovetsky, R.; Ménard, G. "Redox-Controlled Reactivity at Boron: Parallels to Frustrated Lewis/Radical Pair Chemistry." *Inorg. Chem.* **2020**, *59*, 10343-10352.
4. Jacob, S. I.; Douair, I.; Wu, G.; Maron, L.; Ménard, G. "A Tetranuclear Nickel Cluster Isolated in Multiple High-Valent States." *Chem. Commun.* **2020**, *56*, 8182-8185. (Invited: Emerging Investigators Themed Issue)
5. Peterson, M.; Hunt, C.; Wang, Z.; Heinrich, S. E.; Wu, G.; Ménard, G. "Synthesis, Characterization, and Electrochemical Properties of a First-row Metal Phthalocyanine Series." *Dalton Trans.* **2020**, *49*, 16268-16277. (Invited: New Talent – Americas Themed Issue)
6. Keener, M.; Hunt, C.; Carroll, T.G.; Kampel, V.; Dobrovetsky, R.; Hayton, T.W.; Ménard, G. "Redox-Switchable Carboranes for Uranyl Capture and Release." *Nature* **2020**, *577*, 652-655.
7. Wong, A.; Guevara, K.; Wu, G.; Ménard, G. "Unusual C–H Bond Activation and C(sp³)–C(sp³) Bond Formation at an Fe(II) Bis(amide) Carbene Complex." *Organometallics* **2020**, *39*, 116-122.
8. Livshits-Kritsman, Y.; Tumanskii, B.; Ménard, G.; Dobrovetsky, R. "Isolable cyclic (alkyl)(amino)carbene-phosphonyl radical adducts." *Chem. Commun.* **2020**, *56*, 1341-1344.
9. Lemmerz, L. E.; Wong, A.; Ménard, G.; Spaniol, T. P.; Okuda, J. "Reactivity of the molecular magnesium hydride cation [MgH]⁺ supported by an NNNN macrocycle." *Polyhedron* **2020**, *178*, 114331.
10. Hunt, C.; Peterson, M.; Anderson, C.; Chang, T.; Wu, G.; Scheiner, S.; Ménard, G. "Switchable Aromaticity in an Isostructural Mn Phthalocyanine Series Isolated in Five Separate Redox States." *J. Am. Chem. Soc.* **2019**, *141*, 2604-2613.
11. Hunt, C.; Matthejat, M.; Anderson, C.; Sepunaru, L.; Ménard, G. "Symmetric Phthalocyanine Charge Carrier for Dual Redox Flow Battery/Capacitor Applications." *ACS Appl. Energy Mater.* **2019**, *2*, 5391-5396.
12. Carroll, T. G.; Hunt, C.; Garwick, R.; Wu, G.; Dobrovetsky, R.; Ménard, G. "An Untethered C_{3v}-symmetric Triarylphosphine Oxide Locked by Intermolecular Hydrogen Bonding." *Chem. Commun.* **2019**, *55*, 3761-3764.
13. Lemmerz, L. E.; Mukherjee, D.; Spaniol, T. P.; Wong, A.; Ménard, G.; Maron, L.; Okuda, J. "Cationic Magnesium Hydride [MgH]⁺ Stabilized by an NNNN-type Macrocycle." *Chem. Commun.* **2019**, *55*, 3199-3202.
14. Chu, J.; Carroll, T. G.; Wu, G.; Telser, J.; Dobrovetsky, R.; Ménard, G. "Probing Hydrogen Atom Transfer at a Phosphorus(V) Oxide Bond Using a "Bulky Hydrogen Atom" Surrogate: Analogies to PCET." *J. Am. Chem. Soc.* **2018**, *140*, 15375-15383.

15. Carroll, T. G.; Garwick, R.; Wu, G.; Ménard, G. "A Mono-, Di-, and Trivanadocene Phosphorus Oxide Series: Synthesis, Magnetism, and Chemical/Electrochemical Properties." *Inorg. Chem.* **2018**, *57*, 11543-11551.
16. Carroll, T. G.; Garwick, R.; Telser, J.; Wu, G.; Ménard, G. "Synthesis, Characterization, and Electrochemical Analyses of Vanadocene Tetrametaphosphate and Phosphinate Derivatives." *Organometallics* **2018**, *37*, 848-854.
17. Keener, M.; Peterson, M.; Hernández Sánchez, R.; Oswald, V. F.; Wu, G.; Ménard, G. "Towards Catalytic Ammonia Oxidation to Dinitrogen: A Synthetic Cycle by Using a Simple Manganese Complex." *Chem. Eur. J.* **2017**, *23*, 11479-11484. *Frontispiece Cover*.

Post-doc, Graduate, and Undergraduate Publications:

18. Bartholomew, A. K.; Teesdale, J. J.; Hernández Sánchez, R.; Malbrecht, B. J.; Juda, C. E.; Ménard, G.; Bu, W.; Iovan, D. A.; Mikhailine, A. A.; Zheng, S.-L.; Sarangi, R.; Wang, S. G.; Chen, Y.-S.; Betley, T. A. "Exposing the Inadequacy of Redox Formalisms by Resolving Redox Inequivalence Within Isovalent Clusters." *Proc. Natl. Acad. Sci. U.S.A.* **2019**, 201907699.
19. Liu, L.; Cao, L. L.; Shao, Y.; Ménard, G.; Stephan, D. W. "A Radical Mechanism for Frustrated Lewis Pair Reactivity." *Chem* **2017**, *3*, 259-267.
20. Hernández Sánchez, R.; Bartholomew, A.K.; Powers, T.M.; Ménard, G.; Betley, T.A. "Maximizing Electron Exchange in a [Fe₃] cluster." *J. Am. Chem. Soc.* **2016**, *138*, 2235-2243.
21. Shafia, E.; Esposito, S.; Manzoli, M.; Chiesa, M.; Tiberto, P.; Barrera, G.; Ménard, G.; Allia, P.; Freyria, F. S.; Garrone, E.; Bonelli, B. "Al/Fe Isomorphic Substitution Versus Fe₂O₃ Clusters Formation in Fe-doped Aluminosilicate Nanotubes (Imogolite)." *J. Nanopart. Res.* **2015**, *17*, 1-14.
22. Voicu, D.; Abolhasani, M.; Choueiri, R.; Lestari, G.; Seiler, C.; Ménard, G.; Greener, J.; Guenther, A.; Stephan, D.W.; Kumacheva, E. "Microfluidic Studies of CO₂ Sequestration by Frustrated Lewis Pairs." *J. Am. Chem. Soc.* **2014**, *136*, 3875-3880.
23. Ménard, G.; Hatnean, J.A.; Cowley, H.J.; Lough, A.J.; Rawson, J.M.; Stephan, D.W. "C-H Bond Activation by Radical Ion Pairs Derived from R₃P/Al(C₆F₅)₃ Frustrated Lewis Pairs and N₂O." *J. Am. Chem. Soc.* **2013**, *135*, 6446-6449.
24. Ménard, G.; Tran, L.; McCahill, J.S.J.; Lough, A.J.; Stephan, D.W. "Contrasting the Reactivity of Ethylene and Propylene with P/Al and P/B Frustrated Lewis Pairs." *Organometallics* **2013**, *32*, 6759-6763.
25. Ménard, G.; Gilbert, T.M.; Hatnean, J.A.; Kraft, A.; Krossing, I.; Stephan, D.W. "Stoichiometric Reduction of CO₂ to CO by Phosphine/AlX₃-Based Frustrated Lewis Pairs." *Organometallics* **2013**, *32*, 4416-4422.
26. Ménard, G.; Tran, L.; Stephan, D.W. "Activation of H₂ using P/Al Based Frustrated Lewis Pairs and Reactions with Olefins." *Dalton Trans.* **2013**, *42*, 13685-13691.
27. Ménard, G.; Stephan, D.W. "CO₂ Reduction via Aluminum Complexes of Ammonia Boranes." *Dalton Trans.* **2013**, *42*, 5447-5453.
28. Ménard, G. "Environmental Non-Governmental Organizations: Key Players in Development in a Changing Climate. A Case Study of Mali." *Environ. Dev. Sustain.* **2013**, *15*, 117-131. (Note: M.E.S. work)
29. Ménard, G.; Stephan, D.W. "H₂ Activation and Hydride Transfer to Olefins by Al(C₆F₅)₃-Based Frustrated Lewis Pairs." *Angew. Chem. Int. Ed.* **2012**, *51*, 8272-8275. "*Hot Paper*"
30. Ménard, G.; Stephan, D.W. "C-H Activation of Isobutylene Using Frustrated Lewis Pairs: Aluminum and Boron σ -Allyl Complexes." *Angew. Chem. Int. Ed.* **2012**, *51*, 4409-4412. "*Hot Paper*"
31. Neu, R.C.; Ménard, G.; Stephan, D.W. "Exchange Chemistry of *t*Bu₃P(CO₂)B(C₆F₅)₂Cl." *Dalton Trans.* **2012**, *41*, 9016-9018.
32. Ménard, G.; Stephan, D.W. "Stoichiometric Reduction of CO₂ to CO by Aluminum-Based Frustrated Lewis Pairs." *Angew. Chem. Int. Ed.* **2011**, *50*, 8396-8399.
33. Ménard, G.; Stephan, D.W. "Room Temperature Reduction of CO₂ to Methanol by Al-Based Frustrated Lewis Pairs and Ammonia Borane." *J. Am. Chem. Soc.* **2010**, *132*, 1796-1797.
34. Ménard, G.; Jong, H.; Fryzuk, M.D. "Synthesis and Characterization of a New Thiophene-Bridged Diamidophosphine [NPN] Donor Set and its Coordination Chemistry with Zirconium(IV): Unexpected Deprotonation-Lithiation Sequence with a Mesitylaminothiophene Precursor." *Organometallics* **2009**, *28*, 5253-5260.

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35. Dyker, C.A.; Burford, N.; Ménard, G.; Lumsden, M.D.; Decken, A. "Monocyclic Di- and Triphosphinophosphonium Cations: New Foundational Frameworks for catena-Phosphorus Chemistry." *Inorg. Chem.* **2007**, *46*, 4277-4285.

Patent:

1. "Symmetric Redox Flow Batteries for Economically-Viable Grid-Scale Energy Storage." Hunt, C.; Sepunaru, L.; Ménard, G. Disclosure, UC 2019-165-0. October 8, 2018.

Conferences and Invited Talks (Independent Career Only):

Postponed due to COVID-19:

1. Telluride 2020 Conference: Small Molecule Activation, Telluride, CO (July, 2020). *Invited*.
2. Boron in the Americas (BORAM XVII) Conference, Blacksburg, VA (June, 2020). *Invited*.
3. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." Baylor University, Waco, TX (April, 2020). *Invited*.

Completed:

4. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." Columbia University, New York, NY (April, 2021). *Invited – Virtual Talk*.
5. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." University of Southern California, Los Angeles, CA (March, 2021). *Invited – Virtual Talk*.
6. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." University of British Columbia – Okanagan, Kelowna, Canada (February, 2021). *Invited – Virtual Talk*.
7. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." University of British Columbia, Vancouver, Canada (October, 2020). *Invited – Virtual Talk*.
8. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." Simon Fraser University, Burnaby, Canada (September, 2020). *Invited – Virtual Talk*.
9. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." Virginia Tech, Blacksburg, VA (September, 2020). *Invited – Virtual Talk*.
10. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." California Institute of Technology, Pasadena, CA (March, 2020). *Invited*.
11. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." UC Irvine, Irvine, CA (February, 2020). *Invited*.
12. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." UNC Chapel Hill, Chapel Hill, NC (February, 2020). *Invited*.
13. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." Harvard University, Cambridge, MA (February, 2020). *Invited*.
14. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." Yale University, New Haven, CT (February, 2020). *Invited*.
15. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." UC Riverside, Riverside, CA (January, 2020). *Invited*.
16. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." UCLA, Los Angeles, CA (January, 2020). *Invited*.
17. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." UC San Diego, La Jolla, CA (January, 2020). *Invited*.
18. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." University of Toronto, Toronto, Canada (January, 2020). *Invited*.
19. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." University of Ottawa, Ottawa, Canada (January, 2020). *Invited*.
20. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." Queen's University, Kingston, Canada (January, 2020). *Invited*.

21. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." UC Davis, Davis, CA (October, 2019). *Invited*.
22. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." Pacific Northwest National Laboratory, Richland, WA (September, 2019). *Invited*.
23. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." University of Idaho, Moscow, ID (September, 2019). *Invited*.
24. "Targeting Energy Solutions: From Fundamental to Applied Inorganic Redox Chemistry." Washington State University, Pullman, WA (September, 2019). *Invited*.
25. "Targeting New Reactivity Using Main Group/Transition Metal Cooperative Reactivity." Gordon Research Conference (Organometallics), Newport, RI (July, 2019). *Invited speaker*.
26. "Designing Redox Active Molecules: From Fundamental Bond Activation to Energy Storage Applications." Weizmann Institute of Science, Rehovot, Israel (June, 2019). *Invited*.
27. "Designing Redox Active Molecules: From Fundamental Bond Activation to Energy Storage Applications." Technion – Israel Institute of Technology, Haifa, Israel (June, 2019). *Invited*.
28. "Abundant Metal Complexes for Chemical or Electrochemical Energy Storage Applications." Tsinghua University, Beijing, China (October, 2018). *Invited*.
29. "Abundant Metal Complexes for Chemical or Electrochemical Energy Storage Applications." Shanghai Institute of Organic Chemistry, Shanghai, China (October, 2018). *Invited*.
30. "Symmetric Redox-Flow Batteries for Energy Storage" (poster). 18th Chinese-American Kavli Frontiers of Science Symposium, Nanjing, China (October, 2018). *Invited*.
31. "Symmetric Phthalocyanine-Based Redox-Flow Batteries for Energy Storage" (poster). Gordon Research Conference (Organometallics), Newport, RI (July, 2018). *Contributed*.
32. "Symmetric Phthalocyanine-Based Redox-Flow Batteries for Energy Storage." Canadian Chemistry Conference and Exhibition, Edmonton, AB (May, 2018). *Contributed*.
33. "Homogeneous Ammonia Oxidation: Mechanistic Investigation and Catalyst Development." ACS National Meeting and Exposition, New Orleans, LA (March, 2018). *Invited*.
34. "Targeting Redox-Active Main-Group Centers for Bond Activation." Tel Aviv University, Tel Aviv, Israel (November, 2017). *Invited*.
35. "Catalyst Design for Clean Energy Storage and Sustainable Chemistry." California State University, Chico, CA (November, 2016). *Invited*.
36. "Catalyst Design for Clean Energy Storage and Sustainable Chemistry" (poster). 17th Chinese-American Kavli Frontiers of Science Symposium, UC Irvine Beckmann Center, Irvine, CA (October, 2016). *Invited*.
37. "Wiring redox non-innocent 'metallo-ligands' to a main group atom: Applications in flow batteries and small molecule multi-electron transformations." ACS National Meeting and Exposition, Philadelphia, PA (August, 2016). *Contributed*.
38. "Tuning Metal–E (E = N, O) Bond Reactivity for Applications in Hydrogen Release and Biomass Conversion." Canadian Chemistry Conference and Exhibition, Halifax, NS (June, 2016). *Contributed*.
39. "Catalyst Design for Sustainable Biomass Conversion and Clean Energy Applications." California State University, Los Angeles, CA (December, 2015). *Invited*.

Academic Activities

Teaching:

Spring 2021	CHEM 279: Special Topics: Sustainable Chemistry
Fall 2020	CHEM 25: Introductory Chemistry
Fall 2020	CHEM 173A/268A: Advanced Inorganic Chemistry
Spring 2020	CHEM 279: Special Topics: Sustainable Chemistry
Winter 2020	<i>Release</i>
Fall 2019	CHEM 173A/268A: Advanced Inorganic Chemistry
Spring 2019	CHEM 1C: General Chemistry

Winter 2019	<i>Release</i>
Fall 2018	CHEM 173A/268A: Advanced Inorganic Chemistry
Spring 2018	<i>Active-Service Modified Duties (Child Rearing)</i>
Winter 2018	CHEM 279: Special Topics: Sustainable Chemistry
Fall 2017	CHEM 173A/268A: Advanced Inorganic Chemistry
Summer 2017	CHEM 173A: Advanced Inorganic Chemistry
Spring 2017	CHEM 175/275: Physical Inorganic Chemistry
Winter 2017	CHEM 279: Special Topics: Sustainable Chemistry
Fall 2016	CHEM 173A/268A: Advanced Inorganic Chemistry CHEM 293: Faculty Research Seminar
Spring 2016	INT 94SL: Freshmen Seminar. "A Brave New World: Digging Beyond the Headlines on Climate Change, Energy, and the Economy in the 21 st Century."
Winter 2016	<i>Active-Service Modified Duties (Child Rearing)</i>
Fall 2015	CHEM 293: Faculty Research Seminar

Mentoring:

Post-doctoral fellow

Dr. Jiayang Chu (2016-18) – Presently Assistant Professor, UCAS, China

Graduate students:

Chae Yeong Kim (2020-)

Hila Benheim (2019-)

Arunavo Chakraborty (2018-)

Shannon Heinrich (2018-)

Maxwell Mattejat (2018-)

Zongheng Wang (2017-)

Samuel Jacob (2016-)

Madeline Peterson (2016-)

Anthony Wong (2016-)

Timothy Carroll 2015-2020 (Ph.D.) – Presently post-doctoral fellow, electrocatalysis, PNNL

Megan Keener 2015-2020 (Ph.D.) – Presently post-doctoral fellow, Mazzanti Group, EPFL

Camden Hunt 2015-2019 (Ph.D.) – Presently post-doctoral fellow, Berlinguette Group, UBC

Christopher Kirby 2015-18 (M.S.) – Presently high-school teacher, NJ

Undergraduate students:

Afton Gustafson (2019-)

Daniel Pan (2019-)

Paige Dixon (2020)

Chenyue Yang (2020)

Delenn Ganyo (2019-2020)

Gillian Kutrosky (2018-2020)

Rachel Huang (2019)

Jonas Kaare-Rasmussen (2019)

Solène Perot (2019)

Kevin Guevara (2018)

Clarissa Magallanes (2018)

Rachel Garwick (2017-20)

Cassidy Anderson (2017-18)

Ruoshui (Louis) Li (2017-18)

Amaani Desai (2017)

Ali Mahdi (2017)

Yasmine Soliman (2017)

Natalie Kashanchi (2016-17)

Clayton Silva (2016-17)

Nicole Delgado (2015-16)

Spencer Baker (2015)

Service and Outreach Activities

Departmental Service:

Committee on Diversity, Equity, and Inclusion (Chair)	2020-present
Diversity Officer	2020-present
Chemistry Program Review Panel (Member)	2020
Departmental Staff Hiring	2019-2020
Departmental Faculty Search Committee	2017
Mass Spectroscopy Hiring Committee	2016-2017
Graduate Recruitment Committee	2015-present
Inorganic Seminar Co-organizer	2015-present
Website Committee	2015-present

University Service:

Men Advocating for Gender Equity (co-chair)	2019-present
Chemical and Physical Hazards Committee (Member)	2019-present
Campus Childcare Advisory Committee	2018-present
Faculty Legislature	2018-present
Central Fellowships Committee	2016

Professional Service and Outreach:

Founder of the "Science Pub Night" events connecting UCSB scientists to the general public	2017-present
Member of the Mellichamp Academic Initiative in Sustainability at UCSB	2016-present
Historically Black Colleges and Universities (HBCUs) UCSB campus visit organizer (annually every summer)	2016-present
Co-organizer of the SoCal Organometallics Meeting	2017, 2020 (postponed)

Service to the Community: *Ad Hoc* Reviewer

Journals: ACS Applied Energy Materials, ACS Catalysis, ACS Energy Letters, Angewandte Chemie International Edition, Chemical Communications, Chemical Science, Dalton Transactions, European Journal of Inorganic Chemistry, Inorganic Chemistry, Journal of the American Chemistry Society, Nature, New Journal of Chemistry, Organic Letters, Organometallics, RSC Advances, Tetrahedron.

Grants: National Science Foundation in person panel reviewer (2016, 2018) and virtual panel (2020, 2021); Department of Energy (2019, 2020); ACS Petroleum Research Fund (2018, 2019, 2020, 2021).