Noémie Elgrishi, Ph.D.

noemie@lsu.edu

Current Position

Associate Professor — *Baton Rouge, LA*
Department of Chemistry — *08/2024 – current*
Louisiana State University
Baton Rouge, LA 70803
office: 225-578-6917 | CMB 301A

Other Appointments

Editorial Board Member — *Baton Rouge, LA*
Journal of Coordination Chemistry, Taylor & Francis Group, Editor: Jim D. Atwood — *01/2023 – 12/2025*

Previous Positions and Research Experience

Louisiana State University — *Baton Rouge, LA*
Assistant Professor — *08/2017 – 08/2024*

University of North Carolina – Chapel Hill — *Chapel Hill, NC*
Advisor: Jillian L. Dempsey — *2015 – 2017*
Postdoctoral Research Associate / Lab Manager
Electrochemical investigation of the PCET processes involved in metal hydride formation.

Collège de France — *Paris, France*
Advisor: Marc Fontecave — *2011 – 2015*
Graduate Student – Ph.D. Thesis
Electrochemical CO_2 reduction to fuels by molecular polypyridyl catalysts of 3d transition metals.

Massachusetts Institute of Technology — *Cambridge, MA*
Advisor: Daniel G. Nocera — *2011*
Visiting Graduate Student – Master 2 Thesis
Structural and functional properties of new HX (X = halide) splitting photocatalysts for solar energy storage.

University of Cambridge — *Cambridge, UK*
Advisor: Johnathan R. Nitschke — *2010*
Visiting Graduate Student – Master 1 Thesis
Design and properties of M_4L_4 ($M = Fe^{2+}$) tetrahedral cages for small guest encapsulation.

Université Pierre et Marie Curie – Paris 6 – Sorbonne Université — *Paris, France*
Advisor: Eric Rose — *2009*
Undergraduate Student
Lithiation/electrophilic quench sequence of (η^5-tetramethylcyclohexadienyl)$Mn(CO)_3$ complexes.

Chimie ParisTech — *Paris, France*
Advisors: Alain Fuchs and François-Xavier Coudert — *2008*
Undergraduate Student
Monte Carlo simulations of innovative metal-organic framework materials for CO_2 capture.

Education

Université Pierre et Marie Curie – Paris VI – Sorbonne Universités — *Paris, France*
Ph.D. Molecular Chemistry. — *2015*

École Normale Supérieure — *Paris, France*
Diploma. Chemistry. Rewarding the completion of the B.S. and M.S. programs. — *2012*

Université Pierre et Marie Curie – Paris VI – Sorbonne Universités — *Paris, France*
Master's Degree. Chemistry, specialization in materials chemistry. — *2011*

Université Pierre et Marie Curie – Paris VI – Sorbonne Universités — *Paris, France*
Bachelor's Degree. Chemistry. — *2009*

Honors and Awards

2025 Carruth McGehee Award for Excellent Research by a Junior Faculty Member, *LSU.*	*2025*
2024 Rising Star, *45th International Conference on Coordination Chemistry*.	*2024*
Rising Faculty Research Award, *Louisiana State University Alumni Association*.	*2024*
2024 WCC Rising Star Award, *American Chemical Society.*	*2024*
Best Short Talk at the 4th International PCET Conference.	*2023*
College of Science Graduate Teaching Award, *LSU.*	*2023*
2023 International Union of Pure and Applied Chemistry (IUPAC) Young Observer	*2023*
National Science Foundation CAREER Award.	*2021*
College of Science Undergraduate Teaching Award, *LSU.*	*2020*
Selected for the 2018 ACS Cottrell Scholars Collaborative New Faculty Workshop	*2018*
Selected for the 2018 NSF Chemistry Early Career Investigator Workshop	*2018*
Selected for the 2016 Future Faculty Workshop, *University of Delaware*.	*2016*
Office of Postdoctoral Affairs Travel Award, *UNC-Chapel Hill*.	*2016*
Best talk at the "18th Journée de Chimie Organique et Chimie Organique Biologique de la Montagne Sainte-Geneviève", *Paris Sciences et Lettres Research University.*	*2014*
SciFinder Future Leaders in Chemistry, *Chemical Abstract Service*.	*2012*
Ph.D. Fellowship from the French Ministry of Defense, *Direction Générale de l'Armement*.	*2011*
"Trophée Performance" Energy award for best Master's thesis, *Véolia Environnement*.	*2011*
Erasmus Fellowship to perform research at the University of Cambridge, UK.	*2010*

Funding Since Starting at LSU

Current

- National Science Foundation, Office of Integrative Activities, *RII Track-2 FEC: Fundamental Insights into the Durability and Efficiencies of CO2 Electrolyzers*. PI: Flake, Co-PIs: Arges, Elgrishi, Yao, Yan. **$3,999,960**. Project dates: 10/2021 – 09/2026. **($338,096** for Elgrishi)
- National Science Foundation, Division Of Chemistry, *CAREER: CAS: Confined Nano-Environments for the Stabilization of Molecular Electrocatalysts*. PI: Elgrishi. **$685,000**. Project dates: 04/2021 – 03/2027.

Pending

- Research Competitiveness Subprogram, Louisiana Board of Regents, *Targeting enhanced cost-effectiveness and selectivity of molecular sponges for PFAS removal*. PI: Elgrishi. **$78,354**. Project dates: 06/2026 – 06/2027. Submitted.

Prior

- National Science Foundation, Major Research Instrumentation Program, *MRI: Acquisition of A Single-Crystal X-Ray Diffractometer—Synthesize, Crystallize, Virtualize*. PI: Lee, Co-PIs: Chambers, Elgrishi, Rivas, García-López. **$284,428**. LSU Cost Sharing brings the total to: **$406,327**. Project dates: 09/2022 – 08/2025.
- LSU Provost's Fund for Innovation in Research Grants - Faculty Research Grants - Emerging Research, LSU, *Molecular sponges for the removal of "forever chemicals" from the environment*. PI: Elgrishi. **$10,000**. Project dates: 01/2023 – 12/2023.
- Research Competitiveness Subprogram, Louisiana Board of Regents, *Catalytic reduction of hexavalent chromium to reclaim contaminated water sources*. PI: Elgrishi. **$148,080**. Project dates: 06/2019 – 06/2022.
- WISE Faculty Equipment Request, Office of Research & Economic Development, LSU, *An electrode rotator for kinetics and product measurements*. PI: Elgrishi. **$5,000**. February 2019.
- Council on Research Summer Stipend 2018 grant program, Office of Research & Economic Development, LSU, *Electrochemical characterization and in-silico design of nano-environments for fuel production catalysts*. PI: Elgrishi. **$5,000**. Project dates: 07/2018.

Other

- 2023 Beckman Scholars Program, LSU Application Proposal. PI: Peterson. Elgrishi one of the 14 selected Faculty Mentors across the College of Science. Accepted.

Scientific Publications

***Since starting at LSU** (‡: Elgrishi mentored undergraduate students. #: collaborative work. *:corresponding author)*

1. Hulse, V. A.; Knecht‡, K. A.; Fronczek, F. R.; ***Elgrishi*, N.*** Electroanalytical Methods to Establish the Role of Buffer and Electrolyte Components in Water Denitrification Using a Copper-based Bioinspired Electrocatalyst, *ACS Measurement Science Au*, **2026**, *Accepted*, DOI: 10.1021/acsmeasuresciau.5c00203. 2025 Rising Stars Collection. (Invited).
2. Busschaert, N.; Stephenson, C. J.; Pierre, V. C.; Johnson, D. W.; ***Elgrishi, N.***; Wallace, K. J.; Li, X.; Kumar, K.; Stearns, C. D. NASC 2024: continuing progress in North American Supramolecular Chemistry, *Supramolecular Chemistry*, **2025**, *36(1–2)*, 11–17.
3. Das Bairagya, M.; Ntipouna‡, P. S.; Stewart, N. K.; ***Elgrishi*, N.*** A Molecular Metal Organic Cage as a Recyclable Sponge for PFOS Removal from Water, *Chem. Commun.*, **2024**, *60*, 11084–11087. 2024 Emerging Investigators collection (Invited).
4. Stern, C. M.; Abeythunga, M. M.; ***Elgrishi*, N.*** "Advancing Cr(VI) Electroreduction: A Redox Mediator to Catalyze the Electrochemical Reduction of Cr(VI) in Water While Preventing Fouling of Carbon Electrodes", *ACS Organic & Inorganic Au*, **2024**, *4*, 1, 113–119. 2023 Rising Stars collection (Invited).
5. Mitchell, N. H.; ***Elgrishi*, N.*** "Investigation of Iron(III) Tetraphenylporphyrin as a Redox Flow Battery Anolyte: Unexpected Side Reactivity with the Electrolyte", *J. Phys. Chem. C*, **2023**, *127*, 23, 10938–10946, Early-Career and Emerging Researchers in Physical Chemistry Volume 2 (Invited).
6. Stern, C. M.; Meche‡, D. D.; ***Elgrishi*, N.*** "Impact of the choice of buffer on the electrochemical reduction of Cr(VI) in water on carbon electrodes", *RSC Advances*, **2022**, *12*, 32592–32599. Selected for the Emerging Investigators Series.
7. Bujol, R. J.; Fronczek, F. R.; ***Elgrishi*, N.*** "On the synthesis and characterization of two different titanium-based supramolecular structures of identical stoichiometry", *Journal of Coordination Chemistry*, **2022**, 75:11-14, 1768–1780. 2022 Emerging Leaders of Coordination Chemistry Special issue (Invited).
8. Ndung'u, C.; LaMaster, D.J.; Dhingra, S.; Mitchell, N.H.; Bobadova-Parvanova, P.; Fronczek, F.R.; ***Elgrishi, N.***; Vicente*, M.d.G.H. A. "Comparison of the Photophysical, Electrochemical and Cytotoxic Properties of meso-(2-, 3- and 4-Pyridyl)-BODIPYs and Their Derivatives", *Sensors*, **2022**, *22*, 5121.#
9. Rushing, J. C.; Stern, C. M.; ***Elgrishi, N.***; Kuroda*, D. G. "Tale of a "Non-interacting" Additive in a Lithium-Ion Electrolyte: Effect on Ionic Speciation and Electrochemical Properties", *J. Phys. Chem. C*, **2022**, 126, 4, 2141–2150.#
10. Kurtz, D. A.; Dhar, D.; ***Elgrishi, N.***; Kandemir, B.; McWilliams, S. F.; Howland‡, W. C.; Chen, C.-H.; Dempsey*, J. L. "Redox-Induced Structural Reorganization Dictates Kinetics of Cobalt(III) Hydride Formation via Proton-Coupled Electron Transfer", *J. Am. Chem. Soc.* **2021**, 143, 9, 3393–3406. Featured in JACS Spotlights, Featured in JACS Video Bytes, Highlighted in Matter (Zurakowski J. A.; Dover, M. W. A Proton passing game: A relay across the goal line. Matter 2021, 4, P2598–2600).#
11. Stern, C. M.; Jegede, T. O.; Hulse, V. A.; ***Elgrishi*, N.*** "Electrochemical reduction of Cr(VI) in water: lessons learned from fundamental studies and applications", *Chem. Soc. Rev.* **2021**, *50*, 1642-1667. 2020 Emerging Investigators (Invited).
12. Stern, C. M; Hayes‡, D. W.; Kgoadi‡, L. O.; ***Elgrishi*, N.*** "Carbon Electrodes are Effective for the Detection and Reduction of Hexavalent Chromium in Water", *Environ. Sci.: Water Res. Technol.* **2020**, *6*, 1256-1261. Emerging Investigator Series (Invited).
13. Das Bairagya, M; Bujol, R. J.; ***Elgrishi*, N.*** "Fighting Deactivation: Classical and Emerging Strategies for Efficient Stabilization of Molecular Electrocatalysts", *Chem. Eur. J.* **2020**, *26*, 3991–4000. Special collection on Electrocatalysis (Invited).
14. Jegede, T. O; McKee, K. B.; Porter, M.; Webb, A. E.; Lee, J. G.; Arachchige, N. M. K. K.; Ragains, J. R.; ***Elgrishi, N.***; Garno*, J. C. "Approaches for Sample Characterization and Lithography with Nanoparticles using Modes of Scanning Probe Microscopy", *Madridge J Anal Sci Instrum.* **2019**, *4*, 96–108.#

15. ***Elgrishi, N.***; Rountree, K. J.; McCarthy, B. D.; Rountree, E. S.; Eisenhart, T. T.; Dempsey*, J. L. "A practical beginner's guide to cyclic voltammetry", *J. Chem. Educ.* **2018**, *95*, 197–206. Selected for Open Access by *ACS Editors' Choice*. Read over 1,000,000 times. Ranked #1 on Most Read list for the journal. Cited over 2000 times.[#]

Prior to LSU

16. Lee, K. J.; ***Elgrishi, N.***; Kandemir, B.; Dempsey, J. L. "Applications of electrochemical and spectroscopic methods for evaluating molecular electrocatalysts", *Nature Reviews Chemistry*. **2017**, *1*, 0039.
17. ***Elgrishi, N.***; Kurtz, D. A.; Dempsey, J. L. "Reaction Parameters Influencing Cobalt Hydride Formation Kinetics: Implications for Benchmarking H_2-Evolution Catalysts." *J. Am. Chem. Soc.* **2017**, *139*, 239–244.
18. ***Elgrishi, N.***; Chambers, M. B.; Wang, X.; Fontecave, M. "Molecular polypyridine-based metal complexes as catalysts for the reduction of CO_2." *Chem. Soc. Rev.* **2017**, *46*, 761–796.
19. ***Elgrishi, N.***; McCarthy, B. D.; Rountree, E. S.; Dempsey, J. L. "Reaction pathways of hydrogen-evolving electrocatalysts: electrochemical and spectroscopic studies of Proton-Coupled Electron Transfer processes." *ACS Catal.* **2016**, *6*, 3644 – 3659.
20. ***Elgrishi, N.***; Chambers, M. B.; Fontecave, M. "Turning it off! Disfavouring hydrogen evolution to enhance selectivity for CO production during homogeneous CO_2 reduction by cobalt–terpyridine complexes." *Chem. Sci.* **2015**, *6*, 2522 – 2531.
21. ***Elgrishi, N.***; Griveau, S.; Chambers, M. B.; Bedioui, F.; Fontecave, M. "Versatile functionalization of carbon electrodes with a polypyridine ligand: metallation and electrocatalytic H^+ and CO_2 reduction." *Chem. Commun.* **2015**, *51*, 2995 – 2998.
22. Chambers, M. B.; Wang, X.; ***Elgrishi, N.***; Hendon, C. H.; Walsh, A.; Bonnefoy, J.; Canivet, J.; Quadrelli, E. A.; Farrusseng, D.; Mellot-Draznieks, C.; Fontecave, M. "Photocatalytic CO_2 reduction utilizing Cp*Rh-based catalysts in solution and heterogenized within metal-organic frameworks." *ChemSusChem.* **2015**, *8*, 603 – 608.
23. ***Elgrishi, N.***; Chambers, M. B.; Artero, V.; Fontecave, M. "Terpyridine complexes of first row transition metals and electrochemical reduction of CO_2 to CO." *Phys. Chem. Chem. Phys.* **2014**, *16*, 13635 – 13644. Part of the themed collection: *Electrocatalysis - Fundamental Insights for Sustainable Energy*.
24. Powers, D. C.; Chambers, M. B.; Teets, T. S.; ***Elgrishi, N.***; Anderson, B. L.; Nocera, D. G. "Halogen photoelimination from dirhodium phosphazane complexes via chloride-bridged intermediates." *Chem. Sci.* **2013**, *4*, 2880 – 2885.
25. ***Elgrishi, N.***; Artero, V.; Fontecave, M. "Carbon dioxide activation: enzymes, bioinspired catalysts and artificial photosynthesis." *L'Actualité Chimique.* **2013**, *371–372*, 95 – 100.
26. ***Elgrishi, N.***; Teets, T. S.; Chambers, M. B.; Nocera D. G. "Stability-enhanced hydrogen-evolving dirhodium photocatalysts through ligand modification." *Chem. Commun.* **2012**, *48*, 9474 – 9476.
27. Bilbeisi, R. A.; Clegg, J. K.; ***Elgrishi, N.***; de Hatten, X.; Devillard, M.; Breiner, B.; Mal, P.; Nitschke, J. R. "Subcomponent self-assembly and guest-binding properties of face-capped $Fe_4L_4^{8+}$ capsules." *J. Am. Chem. Soc.* **2012**, *134*, 5110 – 5119. Featured on the cover of *J. Am. Chem. Soc.* **2012**, *134*, issue 11. Selected for the virtual issue: *Inorganic Cages and Containers.*
28. Dubarle-Offner, J.; Rose-Munch, F.; Rose, E.; ***Elgrishi, N.***; Rousselière, H. "Lithiation/electrophilic quench sequence of "benzylic" position of (η^5-methylcyclohexadienyl)$Mn(CO)_3$ complexes." *Organometallics.* **2010**, *29*, 4643 – 4646.

Books (Teaching)

- *Mathématiques CE2, Livre du maître*, Belin Ed., Multi-author publication. *For elementary school teachers in Senegal*.
- *Mathématiques CE2, Livre de l'élève*, Belin Ed., Multi-author publication. *Textbook for elementary schools in Senegal*.
- *Les gros coeff du bac S, Spécifique et spécialité*, Belin Ed., **2015**, Multi-author publication, ISBN: 978-2-7011-9418-9. *For French high school students*.
- *Chimie T^le S spécifique et spécialité, Les clés du bac – Fiches*, Belin Ed., **2013**, Elgrishi, N.; Toupin, J. ISBN: 978-2-7011-6362-8. *For French high school students*.
- *Physique-chimie 2^de, Les clés du bac – Fiches*, Belin Ed., **2013**, Elgrishi, N.; Toupin, J. ISBN: 978-2-7011-6549-3. *For French high school students*.

Book Chapter

- Elgrishi, N., Bontempelli, G. and Toniolo, R. (**2025**) Methods and Instruments | Linear Sweep and Cyclic Voltammetry. In: Garche, J. (eds.) Encyclopedia of Electrochemical Power Sources, 2nd Edition. Vol. 2, pp. 27-41.UK: Elsevier.

Teaching Experience

Teaching portfolio available upon request.

Since starting at Louisiana State University, I have been able to gain experience teaching classes at all levels. I have taught large introductory classes (General Chemistry I, 117 to 245 students), smaller upper-level undergraduate and graduate classes (Electroanalytical Chemistry, 11 to 19 students), and specific graduate-level classes (Special Topics in Inorganic Chemistry, 11 students). Student evaluations of my teaching are consistently excellent, above both the department and college averages. My efforts were recognized by a 2020 Tiger Athletic Foundation and College of Science Undergraduate Teaching award, rewarding excellence in teaching at the undergraduate level as well as the 2023 College of Science Graduate Teaching award rewarding excellence in teaching at the graduate level.

General Chemistry I – CHEM 1201 *Spring 2025*
Instructor.
Undergraduate students, Louisiana State University.

Electroanalytical Chemistry – CHEM 4559 *Fall 2024*
Instructor.
Graduate & undergraduate students, Louisiana State University.

General Chemistry I – CHEM 1201 *Spring 2024*
Instructor.
Undergraduate students, Louisiana State University.

Electroanalytical Chemistry – CHEM 4559 *Fall 2023*
Instructor.
Graduate & undergraduate students, Louisiana State University.

Electroanalytical Chemistry – CHEM 4559 *Fall 2022*
Instructor.
Graduate & undergraduate students, Louisiana State University.

General Chemistry I – CHEM 1201 *Spring 2022*
Instructor. (Synchronous online then hybrid)
Undergraduate students, Louisiana State University.

General Chemistry I – CHEM 1201 *Spring 2021*
Instructor. (Synchronous Online)
Undergraduate students, Louisiana State University.

Electroanalytical Chemistry – CHEM 4559 *Fall 2020*
Instructor. (Hybrid)
Graduate & undergraduate students, Louisiana State University.

General Chemistry I – CHEM 1201 *Spring 2020*
Instructor. (In person then synchronous online)
Undergraduate students, Louisiana State University.

Electroanalytical Chemistry – CHEM 4559 *Fall 2019*
Instructor.
Graduate & undergraduate students, Louisiana State University.

General Chemistry I – CHEM 1201 *Spring 2019*
Instructor.
Undergraduate students, Louisiana State University.

Special Topics in Inorganic Chemistry: Symmetry and Electronic Structure of Transition Metal Complexes – CHEM 7770 *Fall 2018*
Instructor.
Graduate students, Louisiana State University.

Special Topics in Inorganic Chemistry: Symmetry and Electronic Structure of Transition Metal Complexes – CHEM 7770 *Fall 2017*
Instructor.
Graduate students, Louisiana State University.

Prior to LSU

Electronic Structure of Transition Metal Complexes – Chem 452 *Spring 2017*
Recurring Guest lecturer.

Graduate and undergraduate students, University of North Carolina at Chapel Hill.

Proposal Writing Seminar – Part of Chem 754/001 *10/2016*

Personal statements review session.

Graduate and undergraduate students, University of North Carolina at Chapel Hill.

Lab Safety - Chem 701/001 *10/2016*

Presentation on the Dempsey Lab Safety for the class "Safety Field Trip".

Graduate students, University of North Carolina at Chapel Hill.

Theoretical Inorganic Chemistry – Chem 451 *09/2015 – 12/2015*

Guest lecturer for 3 classes and proctor for mid-term and final exams.

Graduate and undergraduate students, University of North Carolina at Chapel Hill.

Thermodynamics and Catalysis *01/2014 – 06/2014*

Responsible for all lectures, problem sets, exams and grading. Catalysis portion.

25 undergraduate students, Université Pierre et Marie Curie – Paris VI.

Inorganic Chemistry *09/2013 – 12/2013*

Responsible for lab classes, grading of lab reports and lab final exams.

55 undergraduate students, Université Pierre et Marie Curie – Paris VI.

Thermodynamics and Catalysis *01/2013 – 06/2013*

Responsible for all lectures, problem sets, exams and grading. Catalysis portion.

24 undergraduate students, Université Pierre et Marie Curie – Paris VI.

Thermodynamics and Catalysis

Responsible for lab classes and grading of lab reports. *01/2013 – 06/2013*

24 undergraduate students, Université Pierre et Marie Curie – Paris VI.

English as a second language *09/2008 – 05/2009*

Responsible for weekly oral exams and discussion sessions, grading.

35 undergraduate students, Lycée Michelet, Vanves.

Presentations by N. Elgrishi:

Invited seminars since starting at LSU

- Elgrishi N., "Exploring non-covalent interactions to improve electrochemical energy storage and water purification", (*Invited seminar*), University of Oregon, Eugene, OR, February 2025.
- Elgrishi N., "Exploring non-covalent interactions to improve electrochemical energy storage and water purification", (*Invited seminar*), Harvard University, Woodward Departmental Colloquium, Cambridge MA, April 2024.
- Elgrishi N., "Exploring non-covalent interactions to improve electrochemical energy storage and water purification", (*Invited seminar*), Auburn University, Auburn, AL, November 2023.
- Elgrishi N., "Exploring non-covalent interactions to improve electrochemical energy storage and water purification", (*Student Invited seminar*, *Foster Seminar*), University at Buffalo, Buffalo, NY, October 2023.
- Elgrishi N., "Exploring non-covalent interactions to improve electrochemical energy storage and water purification", (*Invited seminar*), North Carolina State University, Raleigh, NC, September 2023.
- Elgrishi N., "Exploring non-covalent interactions to improve electrochemical energy storage and water purification", (*Invited seminar*), University of North Carolina at Chapel Hill, Chapel Hill, NC, September 2023.
- Elgrishi, N., "Exploring non-covalent interactions to improve electrochemical energy storage and water purification", LSU Chemistry Department Colloquium, Baton Rouge, LA, September 2023.
- Elgrishi N., "Exploring non-covalent interactions to improve energy storage and water purification" (*Invited seminar*). University of Houston, Houston, TX, February 2023.
- Elgrishi N., "Exploring non-covalent interactions to improve energy storage and water purification" (*Invited seminar*). Texas A&M University, College Station, TX, February 2023.
- Elgrishi, N. "Exploring non-covalent interactions to improve energy storage and water purification" (*Invited seminar*). University of Mississippi, Oxford, MS, April 2022.
- Elgrishi, N. "Exploring non-covalent interactions to improve energy storage and water purification" (*Student invited seminar*), Tulane University, New Orleans, LA, April 2022.
- Elgrishi, N. "Exploring non-covalent interactions to improve energy storage and water purification", Friedrich–Alexander University Erlangen–Nürnberg (*Invited seminar*), Erlangen, Germany, July 2019.
- Elgrishi, N. "Non-covalent interactions for energy storage and water purification: electrochemistry meets supramolecular chemistry", Southeastern Louisiana University (*Invited seminar*), Hammond, LA, April 2019.

- Elgrishi, N. "Inorganic chemistry for environmental and energy challenges", North Carolina Agricultural and Technical State University (*Invited seminar*), Greensboro, NC, April 2018.
- Elgrishi, N. "Inorganic chemistry for environmental and energy challenges", LSU Cain Department of Chemical Engineering, Electrochemical Society Student Chapter (*Invited seminar*), Baton Rouge, LA, March 2018.

Invited conference talks since starting at LSU

- Elgrishi N., *A Metal-Organic Cage as a Sponge to Remove Forever Chemicals from Water*, (*Invited talk*), North American Supramolecular Chemistry meeting, 2024 (NASC 2024), New Orleans, December 2024.
- Elgrishi N., "Exploring non-covalent interactions to improve electrochemical energy storage", (*Invited talk*), Rising Star Symposium, 2024 International Conference on Coordination Chemistry (ICCC 2024), Fort Collins, CO, July 2024.
- Elgrishi N., "Exploring non-covalent interactions to improve electrochemical energy storage and water purification", (*Invited talk*) 2024 WCC Rising Stars Symposium, ACS Spring 2024 National Meeting, New Orleans, March 2024.
- Elgrishi N., Bujol R. J., Das Bairagya M., and Grundhoefer J. P. "Non-covalent interactions to modulate electrochemical activity", ACS 2022 Southwest Regional Meeting (SWRM), Inorganic Symposium: Energy and the Environment (*invited talk*), Baton Rouge, LA, November 2022.
- Elgrishi N., Stern C. M., Meche D. D. "Electrochemical methods for the energy-efficient reduction of hexavalent chromium in contaminated water sources", ACS 2022 Southwest Regional Meeting (SWRM), Symposium: Sources, Transport, and Fate of Metals in the Environment (*invited talk*), Baton Rouge, LA, November 2022.
- Elgrishi N., Bujol R. J., Das Bairagya M. "Using non-covalent interactions to affect energy storage catalysis", ACS National Meeting, Symposium: Emerging Areas in Inorganic Chemistry (*invited talk*), Chicago, IL, August 2022.
- Elgrishi N., Bujol R. J., Das Bairagya M., and Grundhoefer J. P. "Modulating Electrochemical Activity Through Encapsulation" (*Invited talk*), Calix 2022, New Orleans, LA, July 2022.
- Elgrishi, N. "Exploring non-covalent interactions to improve energy storage and water purification" (*Invited talk*), LSU Student Affiliates of the American Chemical Society, Baton Rouge, LA, April 2022.
- Elgrishi, N. "Using non-covalent interactions to affect energy storage catalysis and water purification". Pittcon (Invited talk), Atlanta, GA, *canceled Spring 2022*.
- Elgrishi, N. "Strategies to fight deactivation of molecular electrocatalysts". ACS Spring 2021 National Meeting, Graduate Students Symposium 2020, GSSPC - Pushing the Boundaries: Women Scientists Catalyzing Change (*Student Invited talk*), virtual, April 2021. Also one of three speakers on the associated Panel Discussion.
- Elgrishi, N. "Encapsulation and immobilization to fight deactivation in molecular electrocatalysts", 259th ACS National Meeting, Symposium: Emerging Areas in Inorganic Chemistry (*Invited talk*), Philadelphia, PA, *canceled Spring 2020*.
- Elgrishi, N. "Encapsulation and immobilization as tools to fight deactivation in molecular electrocatalysts", ACS 2019 Southwest-Rocky Mountain Regional Meeting (SWRM-RMRM), Symposium: New Directions in Metal-Mediated Conversions for Fuels & Feedstocks (*invited talk*), El Paso, TX, November 2019.
- Elgrishi, N. "PCET for energy efficient environmental restoration of oxyanion-contaminated waters: Example of chromate reduction", ACS 2019 Southwest-Rocky Mountain Regional Meeting (SWRM-RMRM), Symposium: Energy & the Environment (*invited talk*), El Paso, TX, November 2019.
- Elgrishi, N. "Role of proton-coupled electron transfers in energy efficient environmental restoration of oxyanion-contaminated waters: Example of chromate reduction", ACS Southeast Regional Meeting 2019 (SERMACS), Symposium: Environmental Chemistry (*invited talk*), Savannah, GA, October 2019.
- Elgrishi, N. "Exploring non-covalent interactions for energy storage and water purification", 257th ACS National Meeting, Symposium: Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator: Symposium in Honor of Jillian L. Dempsey (*invited talk*), Orlando, FL, March 31st 2019.
- Elgrishi, N. "Evaluating the potential of nanocapsules to synthetically modulate the second coordination sphere of fuel forming catalysts", 255th ACS National Meeting (*Invited talk*), New Orleans, LA, March 2018.
- Elgrishi, N. "Inorganic chemistry for environmental and energy challenges", LSU Student Affiliates of the American Chemical Society (*Invited talk*), Baton Rouge, LA, October 2017.

Contributed presentations since starting at LSU

- Elgrishi, N., *Controlling PCET to oxyanions for electrochemical water purification*, 52nd IUPAC General Assembly (*Invited Young Observer*), 49th IUPAC World Chemistry Congress & 11th edition of CHAINS (*contributed talk*), The Hague, Netherlands, August 2023.
- Elgrishi, N., "Controlling Proton and Electron Transfers to Oxyanions for Water Purification", (*selected for short talk*), PCET 4th International Conference on Proton-Coupled Electron Transfer, Tarragona, Spain, June 2023. Won Best Short Talk Award.

- Elgrishi, N.; Bujol, R., J.; Das Bairagya, M.; Grundhoefer, J. P. "Modulating Electrochemical Activity Through Confinement in Supramolecular Cages" Self-Assembly and Supramolecular Chemistry, Gordon Research Conference (*contributed poster*), Les Diablerets, Switzerland, May 2023.
- Elgrishi, N.; Stern, C. M.; Meche, D. D.; Hulse, V. A.; Knecht, K. A. "Controlling proton and electron transfers to oxyanions for water purification" Inorganic Reaction Mechanisms, Gordon Research Conference (*contributed poster*), Galveston, TX, United States, March 2023.
- Elgrishi N., Stern C. M., Meche D., "Electrochemical methods for the energy-efficient environmental remediation of hexavalent chromium contaminated waters", ACS National Meeting, Symposium: Electrochemical Materials & Interfaces for Environmental & Sustainability Challenges (*contributed talk*), Chicago, IL, August 2022.
- Elgrishi, N. "Energy efficient environmental restoration of oxyanion-contaminated waters: Chromate electroreduction", 259th ACS National Meeting, Symposium: Electrochemistry (*contributed talk*), Philadelphia, PA, *canceled Spring 2020*.
- Bujol, R. J.; Webb, A. E.; Bruna, J. T.; Lutfallah, S. C.; and Elgrishi, N. "Investigating the electroactive windows of molecular containers", ACS Southwest Regional Meeting 2018 (*contributed poster*), Little Rock, AR, November 2018.

Prior to LSU

- Elgrishi, N. "Unravelling PCET pathways of the hydride formation step in cobalt complexes relevant to solar fuel production", 253th ACS National Meeting (*Invited talk*), San Francisco, CA, April 2017.
- Elgrishi, N. "Molecular Electrocatalysts for Energy Storage - Fuel Production Selectivity and Mechanistic Insights", Rutgers, The State University of New Jersey (*Invited seminar*), NJ, February 2017.
- Elgrishi, N. "Molecular Electrocatalysts for Energy Storage - Fuel Production Selectivity and Mechanistic Insights", University of Georgia (*Invited seminar*), Athens, GA, February 2017.
- Elgrishi, N. "Molecular Electrocatalysts for Energy Storage - Fuel Production Selectivity and Mechanistic Insights", The University of Alabama at Birmingham (*Invited seminar*), AL, January 2017.
- Elgrishi, N. "Molecular Electrocatalysts for Energy Storage - Fuel Production Selectivity and Mechanistic Insights", University of Southern California (*Invited seminar*), Los Angeles, CA, January 2017.
- Elgrishi, N. "Molecular Electrocatalysts for Energy Storage - Fuel Production Selectivity and Mechanistic Insights", University of Washington (*Invited seminar*), Seattle, WA, January 2017.
- Elgrishi, N. "Molecular Electrocatalysts for Energy Storage - Fuel Production Selectivity and Mechanistic Insights", The Ohio State University (*Invited seminar*), Columbus, OH, January 2017.
- Elgrishi, N. "Molecular Electrocatalysts for Energy Storage - Fuel Production Selectivity and Mechanistic Insights", Iowa State University (*Invited seminar*), Ames, IA, January 2017.
- Elgrishi, N. "Molecular Electrocatalysts for Energy Storage - Fuel Production Selectivity and Mechanistic Insights", Louisiana State University (*Invited seminar*), Baton Rouge, LA, December 2016.
- Elgrishi, N. "Molecular Electrocatalysts for Energy Storage - Fuel Production Selectivity and Mechanistic Insights", Tulane University (*Invited seminar*), New Orleans, LA, December 2016.
- Elgrishi, N. "Molecular Electrocatalysts for Energy Storage - Fuel Production Selectivity and Mechanistic Insights", University of Nevada (*Invited seminar*), Reno, NV, November 2016.
- Elgrishi, N.; Kurtz, D. A.; Dempsey, J. L. "PCET Processes Underpinning Electrocatalytic Hydrogen Evolution: Insight from a Stable Cobalt Hydride Complex", 7th Solar Energy Research Conference (*poster*), Chapel Hill, NC, October 2016.
- Elgrishi, N.; Kurtz, D. A.; Dempsey, J. L. "Unravelling PCET Pathways of the Hydride Formation Step in Cobalt Complexes Relevant to Solar Fuel Production" Inorganic Chemistry Gordon Research Conference (*poster*), Biddeford, ME, June 2016.
- Elgrishi, N.; Kurtz, D. A.; Dempsey, J. L. "Unravelling PCET Pathways of the Hydride Formation Step in Cobalt Complexes Relevant to Solar Fuel Production", Inorganic Chemistry Gordon Research Seminar (*poster*), Biddeford, ME, June 2016.
- Elgrishi, N.; Kurtz, D. A.; Dempsey, J. L. "Unravelling the Mechanism of Hydride Formation in Cobalt Complexes Relevant to Solar Fuel Production", Women in Science Symposium (*poster*), Chapel Hill, NC, April 2016.
- Elgrishi, N.; Fontecave, M. "Electrochemical reduction of CO_2 to fuels by molecular polypyridyl catalysts of 3d transition metals", SciFinder Future Leaders in Chemistry Alumni Reunion (*poster*), Columbus, OH, August 2015.
- Elgrishi, N. "Electrochemical reduction of CO_2 to fuels by molecular polypyridyl catalysts of 3d transition metals", The University of North Carolina at Chapel Hill (*seminar*), Chapel Hill, NC, September 2015.
- Elgrishi, N.; Chambers, M. B.; Artero, V.; Fontecave, M. "Electrochemical reduction of CO_2 to CO by terpyridine complexes of first row transition metals", 248th ACS National Meeting (*oral presentation*), San Francisco, CA, July 2014.
- Elgrishi, N.; Fontecave, M. "Artificial photosynthesis: energy storage through CO_2 reduction", 18th Journée de la Montagne Sainte-Geneviève - Chimie Organique - Chimie Organique Biologique (*oral presentation*), Paris, France, June 2014.

Service, Leadership

University Committees at Louisiana State University

- Search Committee, LSU Energy Institute Executive Director — *2026 – current*
- Search Committee (College of Science rep.), LSU Institute for Energy Innovation Executive Director: resulted in the hire of Bradley Ives as Inaugural Executive Director — *2022 – 2023*
- Academic Advisory Panel for the Institute for Energy Innovation — *2023 – current*

Committees Chaired, Chemistry Department at Louisiana State University

- Graduate Admissions — *Fall 2024 – current*

Chemistry Department Committees at Louisiana State University

- Department Chair Search Committee — *2026 – current*
- Chair Advisory Meeting — *2024 – 2025*
- Courses and Curricula — *2023 – current*
- Executive Committee — *2020 – 2022; 2024 – current*
- Search Committee, Chaired position in Environmental Chemistry — *2019 – 2020*
- Graduate Admissions Committee — *2017 – 2021*
- Chem Majors Task Force, Analytical and Inorganic divisions representative — *2017 – 2021*
- West Lectureship in Analytical Chemistry Committee — *2017 – 2022*
- Benjamin Pierre Boussert Lecture — *2020 – 2023*
- Undergraduate Advising — *2022 – 2023*
- Peer-teaching review committee for Assistant Professor Fatima Rivas — *2022 – current*
- Mentoring Committee for Assistant Professor Clifton Wagner — *Fall 2024 – current*

General Exam/Dissertation/Thesis/Defense Committees

- Dean's Representative, General Exam for Ademola Akanbi (Advisor: Dr. Dooley, ChemE) — *09/2025*
- Committee Member, Final Defense for Cal Hendershot (Advisor: Dr. Flake, ChemE — *05/2025*
- Committee Member, General Exam for Valeria Bonilla Gonzalez (Advisor: Dr. Kuroda) — *05/2025*
- Dean's Representative, Final Defense for Rachel Shaffer, Physics — *12/2024*
- Committee Member, Master Thesis Defense for Takia Sultana (Advisor: Dr. Maverick) — *03/2024*
- Committee Member, Master Thesis Defense and General Exam for Cal Hendershot (Advisor: Dr. Flake, ChemE) — *08/2023*
- Committee Member, General Exam for Takia Sultana (Advisor: Dr. Maverick) — *05/2022*
- Dean's Representative, General Exam for Rachel Shaffer, Physics — *12/2021*
- Committee Member, General Exam for Takia Sultana (Advisor: Dr. Maverick) — *11/2021*
- Committee Member, Master Defense for Dinushini Siddhiaratchi (Advisor: Dr. Chambers) — *06/2021*
- Committee Member, Honors Thesis Defense for Annaliesa Fanguy (Advisor: Dr. Vinyard, bio) — *04/2020*
- Dean's Representative, Final Defense for Sepideh Kavousi, Mechanical Engineering — *10/2019*
- Dean's Representative, Final Defense for Cuiping Zhao, Biology — *06/2019*
- Dean's Representative, General Exam for Cuiping Zhao, Biology — *01/2019*

Seminars and Department Colloquia Organized or Hosted

- Colloquium: Elisabeth Fatila, Louisiana Tech University — *11/2024*
- Boussert Lecture: Thierry Gacoin, Ecole Polytechnique, France — *10/2023*
- Colloquium: Bruce Gibb, Tulane University — *11/2022*
- Boussert Lecture: Bryce Sadtler, Washington University in St. Louis — *09/2022*
- Boussert Lecture: Shelley Claridge, Purdue University — *09/2019*
- Colloquium: Shelley Minteer, The University of Utah — *09/2019*
- Inorganic Seminar: Elizabeth T. Papish, The University of Alabama — *05/2019*
- Colloquium: James Mayer, Yale University — *02/2019*
- West Lectureship: William R. Heineman, University of Cincinnati — *01/2019*

Conferences and Workshops

- Session Presider, *Session in the Sustainability theme titled 'Electrochemical Conversion 1'* – IUPAC|CHAINS2023, The Hague, Netherlands. — *08/2023*

- Symposium organizer, *General Symposium in Analytical Chemistry* – SW Regional Meeting of the American Chemical Society in Baton Rouge *2022*
- Symposium organizer, *Inorganic Symposium: Energy and the Environment* – SW Regional Meeting of the American Chemical Society in Baton Rouge *2022*
- Symposium organizer, *Energy and the Environment*, SE-SW Regional Meeting of the American Chemical Society in New Orleans, *canceled* *2020*
- Session Presider, *Electrochemistry Symposium*, 259th ACS National Meeting, *canceled* *03/2020*
- Invited Faculty Mentor, Future Faculty Workshop, *Princeton University* *08/2019*
- Session Presider, *Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator: Symposium in Honor of Jillian L. Dempsey*, 257th ACS National Meeting *03/2019*
- Invited Faculty Mentor, Future Faculty Workshop, *University of Delaware* *07/2018*

Journal Reviewing Activities (total as of October 23, 2025: 89) *2017 – current*

- *American Chemical Society*: Inorganic Chemistry (18), Journal of the American Chemical Society (16), Journal of Physical Chemistry (4), ACS Electrochemistry (3), Organometallics (3), ACS Environmental Science: Water Research and Technology (2), ACS Catalysis (1), Journal of Chemical Education (1), Analytical Chemistry (1), Chemistry of Materials (1), ACS Organic & Inorganic Au (1), Accounts of Chemical Research (1), ACS ES&T Engineering (1).
- *Royal Society of Chemistry*: Chemical Communications (5), Dalton Transactions (3), Chemical Science (1).
- *Journals from other publishing companies*: PNAS (2), Nature Communications (2), Journal of Coordination Chemistry (13), Journal of the Electrochemical Society (1), ElectroChimicaActa (1), EnergyChem (2), ChemCatChem (1), Chemistry Select (1), Chemistry Teacher International (1), Electroanalysis (1), Journal of Electroanalytical Chemistry (1), Annals of the New York Academy of Sciences (1).

Proposal Reviewing Activities *2018 – current*

- National Science Foundation: Review Panels (2022, 2022, 2023, 2024, 2024)
- National Science Foundation: Ad Hoc (2018, 2021)
- Department of Energy: Ad Hoc (2019, 2021, 2024, 2025)
- American Chemical Society Petroleum Research Fund (2020, 2021)
- Agence Nationale de la Recherche (2021, 2024)
- Internal proposals for Louisiana State University (2018) and the University of Mississippi (2022)

Book Reviewing Activities *2024 – current*

- Wiley, John Wiley & Sons, Inc. (2024, 2024)

Board of the ACS Baton Rouge Local Section, *Members at Large* *2019 – 2024*

Prior to LSU

Conference and symposium organization

Multi-disciplinary research symposium for Collège de France Graduate Students to enhance knowledge transfer and collaborations across departments. *2014*

Two-day symposium for 2nd year UPMC Chemistry Graduate Students. Research presentations in English in the presence of four invited international speakers. *2012*

Student representative board member on the following committees:

Molecular chemistry graduate school board, Université Pierre et Marie Curie. *2011 – 2015*
Reviews admissions and sets admission goals, reviews proposal and distribute governmental Ph.D. grants to research labs. Reviews and controls curriculum.

Chemistry of biological processes laboratory board, Collège de France. *2011 – 2015*
Reviews budget, permanent staff recruitment goals, lab space allocation, target grant applications.

General administrative board, École Normale Supérieure. *2010 – 2011*
Reviews and sets school policies, admission goals across all departments and budget.

Chemistry department scientific board, École Normale Supérieure. *2009 – 2011*
Reviews departmental policies, scientific direction and academic performance of students. Sets desired field of research and profile for new faculty hires.

Chemistry class representative, École Normale Supérieure. *2008 – 2011*
Liaise between students and professors on a daily basis regarding scheduling, assignments, and class evaluations. Resolve conflicts.

Affiliations

Member of Iota Sigma Pi, National Honor Society for Women in Chemistry. *2018 – 2022*

Member of the American Chemical Society. *2012 – current*

Member of *Chercheurs Associés et Doctorants du Collège de France*. *2011 – current*

Outreach Activities

Featured Speaker, LSU Saturday Science, East Baton Rouge Public Library *12/2025*

Energy Storage Demos Booth, Super science Saturday, LSU *11/2025*

Judge, 2024 LSU Graduate Research Conference, LSU. *04/2024*

Judge, 2024 LSU Discover Day undergraduate research and creativity symposium, LSU. *04/2024*

LSU Kid's Day at the Museum, "Featured Scientist", LSU. *02/2024*

Energy Storage Demos Booth, Super Science Saturday, LSU. *10/2023*

Judge, 2023 LSU Graduate Research Conference, LSU. *04/2023*

Judge, 2023 LSU Discover Day undergraduate research and creativity symposium, LSU. *04/2023*

Energy Outreach and Demos, Foreign Language Academic Immersion Magnet, Baton Rouge, LA. *04/2023*

Judge, 2023 State Science and Engineering Fair – Junior Division, LSU. *04/2023*

Energy & Sustainability Outreach and Demos, East Ascension High School, Gonzales, LA. *03/2023*

LSU Girls Day at the Museum, "Featured Scientist", LSU, virtual. *05/2021*

Judge, 2020 State Science and Engineering Fair – Senior Division, LSU. *03/2020*

Judge, 2020 Region VII Science and Engineering Fair – Junior Division, LSU. *02/2020*

LSU Girls Day at the Museum, Science Activity Station Leader, LSU. *02/2020*

Energy & Fuel Demos Booth, *Girls Do Chemistry* event for local girl scouts organized by ΙΣΠ, LSU. *01/2020*

Energy Storage Demos Booth, Super science Saturday, LSU. *11/2019*

Energy Storage Demos, ChemDemo, 2019 Dean's Circle Science & Spirits. *10/2019*

Energy Storage Demos, Crestworth Elementary School S.T.E.A.M. Night, Baton Rouge, LA. *10/2019*

Student Invited Guest Judge, 9th Lester Andrews Graduate Research Symposium, Mississippi State University, Mississippi State, MS. *05/2019*

Judge, 6th annual LSU Discover Day undergraduate research and creativity symposium, LSU. *04/2019*

LSU Girls Day at the Museum, Science Activity Station Leader, LSU. *02/2019*

Judge, 2019 Region VII Science and Engineering Fair - Senior Division, LSU. *02/2019*

Judge, Southwest Catalysis Society Fall Symposium, LSU. *12/2018*

Judge 10th Annual Undergraduate Research Conference, LSU. *10/2018*

LSU Girls Day at the Museum, Science Activity Station Leader, LSU. *06/2018*

Judge, 5th annual LSU Discover Day undergraduate research and creativity symposium, LSU. *04/2018*

Lab tours, Avoyelles Parish Science Day at LSU. *02/2018*

Judge, 2018 Region VII Science and Engineering Fair, LSU. *02/2018*

Lab tours, *Girls Do Chemistry* event for local girl scouts organized by ΙΣΠ, LSU. *01/2018*

Judge, 2018 Undergraduate Research Conference, The Office of Strategic Initiatives, LSU. *11/2017*

Quantum Fireballs demonstration, 20 Years of ChemDemo Celebration, LSU. *09/2017*

Prior to LSU

Solar energy conversion demonstration, Dempsey Group, *UNC Science Expo*. *04/2017*
For the general public.
Faculty Mentor, *Carolina ADMIRES Program*. *2016-2017*
STEM outreach program for women and minorities in 8th and 9th grade.
Science fair judging and after school science activities, *Rand Road Elementary School, Garner, NC*. *12/2016*
For elementary students.
Lab tours and demonstrations, Dempsey Group, *GAINS Conference*. *04/2016*
For high school girls interested in STEM fields.
Solar energy conversion demonstration, Dempsey Group, *UNC Science Expo*. *04/2016*
For the general public.
After school science activities, *Northside Elementary School, Chapel Hill*. *03/2016*
For elementary students.
Lab tours and demonstrations, Dempsey Group, *Carolina ADMIRES Program*. *02/2016*
STEM outreach program for women and minorities in 8th and 9th grade.
Regional ACS outreach booth, *North Carolina State Fair*. *10/2015*
For the general public.
New booth on color and the structure of butterfly wing, *French National Science Week*. *10/2014*
For high school classes and the general public.
Various demonstrations, *French National Science Week*. *10/2013*
For high school classes and the general public.
Demonstrations around Prussian blue structure and color, MIT, *CMSE Educational Outreach*. *2011*
For elementary students.

Student Mentoring at LSU

Current Graduate Students

- Brayden Messinger, January 2026– now, PhD Student, Inorganic.
- Nazanin Esmaeili, December 2025– now, PhD Student, Analytical, Joint Student with Dr. Flake.
- Widana Gamage Upeksha Madumai Wickramasinghe, January 2024 – now, PhD candidate, Analytical.
- Malithi Abeythunga, May 2023 – now, PhD candidate, Analytical.
- Vanessa Hulse, January 2020 – Fall 2025, PhD candidate, Inorganic. Defended 12/09/2025. Spring 2026 degree.
- Julie Jannise, January 2024 – now, Master Student, Analytical. Defense scheduled 03/23/26.
- Natalie Stewart, January 2024 – now, Master Student, Inorganic, Joint Student with Dr. Chambers. Defense scheduled 03/20/26.

Current Undergraduate Students

- Claire Matherne, LSU Undergraduate, Fall 2023 – Spring 2024, Chemistry Major, LSU' 27.
- Ginny (Virginia) Good, LSU Undergraduate, Spring 2025 – now, Chemistry Major with Concentration in Environmental Chemistry, LSU' 27.

Former Students

Postdoctoral Scholars

- Dr. Dinushini Siddhiaratchi, December 2022 – May 2024. As of Fall 2025: Chemistry Lecturer, University of Ruhuna, Sri Lanka.

Graduate Students – PhDs awarded

- Dr. JP Grundhoefer, LSU Graduate Student, PhD. Thesis: *Modulating Electron Transfer Properties Through Confinement in Metal Organic Cages.* Fall 2025.

- Dr. Nathan H. Mitchell, LSU Graduate Student, PhD. Thesis: *Investigation of Redox Active Compounds for Use in Electrochemical Energy Devices.* Spring 2025. As of Fall 2025: Instructor at Southeastern Louisiana University.
- Dr. Monojit Das Bairagya, LSU Graduate Student, PhD. Thesis: *Impact of Encapsulation on Electron Transfer Properties and Pollutant Sequestration in Cationic Cages.* Spring 2024. As of Summer 2024: Postdoctoral Researcher at Virginia Tech University with Prof. Caroline T Saouma.
- Dr. Ryan J. Bujol, LSU Graduate Student, PhD. Thesis: *Anionic Supramolecular Coordination Cages Based on Catecholate Ligands: Synthesis, Electrochemical Properties, and Encapsulation of Redox-Active Probes.* Spring 2023. As of Summer 2023: Hylton-Rodic Law, Intellectual Property.
- Dr. Callie M. Stern, LSU Graduate Student, PhD. Thesis: *Electrochemical Reduction of Hexavalent Chromium on Glassy Carbon Electrodes in Acidic Buffers*. Summer 2022. As of August 2022: Oak Ridge Institute for Science and Education (ORISE) postdoctoral fellow in the Environmental Laboratory at the US Army Research and Development Center.

Graduate Students – Masters

- Temitope Jegede, LSU Graduate Student, Thesis MS. Thesis: *Electrochemical Reduction of Hexavalent Chromium in Acetonitrile Using Glassy Carbon Electrodes*. Summer 2021.
- Autumn Webb, LSU Graduate Student, MS. Spring 2019. As of Fall 2019: GenChem lab coordinator at The University of Southern Mississippi.

Undergraduate Students

- Landry Tucker, LSU Undergraduate, Fall 2024 – Fall 2025, Chemistry Major / Music Minor, LSU' 25.
- Fabiana Aguilera Vaca Diez, LSU Undergraduate, Spring 2022 – Fall 2024, Chemical Engineering Major / Chemistry Minor, LSU' 25. As of Summer 2025: Process Improvement Engineer at Eastman. Longview, TX.
- Carlie Dutile, LSU Undergraduate, Summer 2023 – Spring 2024, Biological and Agricultural Engineering, LSU'25. LSU Gulf Scholars Program.
- Sophie Ntipouna, LSU Undergraduate, Fall 2021 – Spring 2024, Chemistry Major, B.S. LSU '24. Joined the Chemistry PhD program at the University of North Texas, Denton.
- Katy Knecht, LSU Undergraduate, Fall 2021 – Spring 2024, Chemistry Major / Biology Minor, B.S. LSU '24. Honors Thesis: *Synthesis and characterization of potential copper and cobalt electrocatalysts for the aqueous electrocatalytic reduction of nitrite.* LSU MARC Program. Joined the Chemistry PhD program at the University of Illinois, Urbana Champaign.
- Amanda Lee, LSU Undergraduate, Spring 2023, Chemistry Major, B.S. LSU '23. As of Summer 2023: Chemist at Next Generation Wellness, Colorado.
- Devin Meche, LSU Undergraduate, Fall 2021 – Fall 2022, Chemistry Major / French Minor / Environmental Science Minor, B.S. LSU '22, Honors Thesis: *Impact of the choice of acidic buffers on the electrochemical reduction of hexavalent chromium in water*. Selected for the Teaching Assistant Program in France (TAPIF): in Academie d'Orléans-Tours as of 2023.
- Lebogang Kgoadi, LSU Undergraduate, Fall 2018-Summer 2019, Chemistry Major B.S. LSU '21. Joined the Chemistry PhD. Program at the University of Delaware.
- Salim C Lutfallah, LSU Undergraduate, Fall 2017-Fall 2020, Chemistry Major B.S. LSU '20. Honors Thesis: *Increasing the Bioavailability of Poorly Soluble Anti-Cancer Prodrugs through Encapsulation in Platinum Based Nanocages.* Joined LSU HSC School of Medicine in New Orleans.
- Jonathan Bruna, LSU Undergraduate, Fall 2017-Spring 2020, ChemE Major, DMART Minor. B.S. LSU '20. Honors Thesis: *Exploring the host-guest properties of a tetrahedral $Na_{12}[Al_4L_4]$ molecular cage: incorporation into block copolymers and host for a series of Mn-based molecular electrocatalysts.* Joined the company Lygos as a Process Development Engineer 1.
- Darius Hayes, LSU Undergraduate, Fall 2017-Fall 2019, Chemistry Major B.S. LSU '19. Joined the Chemistry PhD. Program at Colorado School of Mines.
- Kendall Paige Freeman, LSU Undergraduate, Fall 2017, Textile, Apparel, and Merchandising Major/Chemistry Minor.

High School Students

- Aliye Rana Kizilkaya, High School Student, Summer 2023.

Research, Teaching, and Travel Awards Received by Group Members

Postdoctoral Researchers

- 2023 Advancing Science Conference Grant to present at the 2023 NOBCChE National Conference: Dinushini Siddhiaratchi

Graduate Students

- 2025 National Science Foundation Graduate Research Fellowship (NSF GRFP): Honorable Mention for Natalie Stewart
- 2024 Mary Jo Pribble Inorganic Chemistry Award, LSU Chemistry: Monojit Das Bairagya
- 2024 Science Policy Fellows, Gulf Research Program, the National Academies of Sciences, Engineering, and Medicine: Vanessa Hulse.
- 2023 best poster competition at the meeting of the Southwest Section of the American Water Works Association: Vanessa Hulse.
- 2023 LSU Graduate Student Association Travel Award: Monojit Das Bairagya to present his research at the Fall 2023 NOBCChE conference
- 2023 Advancing Science Conference Grant to present at the 2023 NOBCChE National Conference: Monojit Das Bairagya, Vanessa A. Hulse, JP Grundhoefer, and Nathan Mitchell
- Finalist for the 2023 Gulf Research Program Science Policy Fellowship: Vanessa A. Hulse
- Inorganic Chemistry Division Oral Presentation Award, 2021 NOBCChE National Conference: Callie M. Stern
- 2021 Teaching Assistant award for Nathan Mitchell (CHEM 1212)
- 2021 Teaching Assistant award honorable mention for Vanessa Hulse (CHEM 1212)
- National Student Travel Award, ACS Division of Inorganic Chemistry, to present at the Spring 2021 National Meeting of the American Chemical Society: Callie M. Stern
- 2020 Teaching Assistant award for Vanessa A. Hulse (CHEM 1212)
- 2019 Graduate Travel Award – LSU Graduate Student Association: Callie M. Stern to present her research at the 2019 South Eastern Regional meeting of the American Chemical Society
- 2019 National Science Foundation Graduate Research Fellowship (NSF GRFP): Honorable Mention for Callie M. Stern
- 2019 Teaching Assistant award for Autumn Webb (CHEM 1212)
- August 2018: Autumn Webb selected as an American Chemical Society Science Coach

Undergraduate Students

- 2025 LSU Distinguished Undergraduate Researcher Award: Carlie Dutile
- 2025 LSU Discover Day Poster Awards: Claire Matherne. 2nd Place for Overall Poster Presentation - STEM Disciplines and 1st Place for the College of Science monetary Award.
- 2024 LSU Distinguished Undergraduate Researcher Award: Katy Knecht
- 2024 LSU Undergraduate Award in Analytical Chemistry: Katy Knecht
- 2023 Advancing Science Conference Grant to present at the 2023 NOBCChE National Conference: Sophie Ntipouna
- 2023 LSU Undergraduate Award in Inorganic Chemistry: Katy Knecht
- College of Engineering Individual Presentation Award for 2023 LSU Discover Day: Fabiana Aguilera Vaca Diez
- Sophie Ntipouna: one of 25 students selected nationwide to attend the 2023 Graduate School Readiness & Professional Development Boot Camp, sponsored by: ACS Bridge Project, Genentech Foundation, ACS Leadership Institute
- 2022 LSU Distinguished Undergraduate Researcher Award: Devin Meche
- 2022 LSU Undergraduate Award in Analytical Chemistry: Devin Meche
- 2022 LSU Undergraduate Award in Inorganic Chemistry: Sophie Ntipouna
- 2021 LSU Distinguished Undergraduate Researcher Award: Lebogang Kgoadi
- Second Place at the 2020 AIChE Southern Regional Conference Student Technical Presentation Contest: Jonathan Bruna
- Salim Lutfallah was accepted for the 2020 St. Jude Pediatric Oncology Education Program
- 2019 LSU Undergraduate Award in Analytical Chemistry: Darius Hayes

Presentations by group members (undergraduate students underlined)

In 2025: (2 delivered as of May 2025)

- LSU Discover Day 2025: Claire Matherne (poster), Landry Tucker (poster).

In 2024: (13)

- 2024 National meeting of the American Water Works Association: Vanessa Hulse (poster).
- LSU Graduate Research Conference 2024: JP Grundhoefer (talk), Vanessa Hulse (talk), Nathan Mitchell (talk), Malithi Abeythunga (poster).
- LSU Discover Day 2024: Katy Knecht (poster), Fabiana Aguilera Vaca Diez (poster), Carlie Dutile (poster).
- Spring 2024 National Meeting of the American Chemical Society: JP Grundhoefer (poster), Vanessa Hulse (poster), Nathan Mitchell (poster), Monojit Das Bairagya (talk), Dinushini Siddhiaratchi (talk).

In 2023: (19)

- 2023 Southwest Regional Meeting of the American Chemical Society: Monojit Das Bairagya (talk), Vanessa Hulse (poster), Nathan Mitchell (talk).
- 2023 Southwest Section of the American Water Works Association: Vanessa Hulse (poser).
- Fall 2023 NOBCChE conference: JP Grundhoefer (talk), Monojit Das Bairagya (talk), Vanessa Hulse (talk), Nathan Mitchell (poster), Dinushini Siddhiaratchi (poster), Sophie Ntipouna (poster).
- LSU Gulf Coast Summer Program, Gulf Scholars Summer Showcase: Carlie Dutile (poster).
- LSU Graduate Research Conference: JP Grundhoefer (poster), Vanessa Hulse (poster), Nathan Mitchell (poster).
- LSU Discover Day 2023: Katy Knecht (talk), Sophie Ntipouna (poster), Amanda Lee (poster), Fabiana Aguilera Vaca Diez (poster).
- 2023 National Conference on Undergraduate Research: Katy Knecht (poster).

In 2022: (15)

- North American Supramolecular Chemistry 2022 inaugural meeting: JP Grundhoefer (poster) and Monojit Das Bairagya (poster).
- Southwest Regional Meeting of the American Chemical Society: Ryan Bujol (poster), JP Grundhoefer (poster), Monojit Das Bairagya (poster), Vanessa Hulse (poster), Nathan Mitchell (poster), Katy Knecht (poster), Sophie Ntipouna (poster), Devin Meche (poster).
- LSU Discover Day 2022: Katy Knecht (poster), Sophie Ntipouna (poster), Devin Meche (poster).
- Dr. Warner's Retirement Symposium 1/14/2022: Callie M. Stern (poster).

In 2021: (7)

- Southwest Regional Meeting of the American Chemical Society: Ryan Bujol (poster), Monojit Das Bairagya (poster).
- Fall 2021 Meeting of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE): Ryan Bujol (talk), Vanessa Hulse (talk), Callie M. Stern (talk).
- Fall 2021 National Meeting of the American Chemical Society: Ryan Bujol (talk).
- Spring 2021 National Meeting of the American Chemical Society: Callie M. Stern (talk).

In 2020: (2)

- 2020 Southern Regional Conference of the American Institute of Chemical Engineers (AIChE): Jonathan Bruna (talk).
- LSU Discover Day 2020: Salim C Lutfallah (poster).

In 2019: (3)

- LSU College of Science Dean's Circle Event: Darius Hayes (poster).
- 2019 South Eastern Regional meeting of the America Chemical Society: Callie M. Stern (poster).
- LSU Discover Day 2019: Jonathan Bruna (poster), Lebogang "Lebo" Kgoadi (poster).

In 2018: (1)

- 10th annual LSU Undergraduate Research Conference: Darius Hayes (poster).