

14. A Solvatofluorochromic Electron-Rich Polycyclic 1,2-BN Heteroarene Probe for Mapping Cell Membrane Fluidity. **in preparation**

13. Cyclodextrin–Emitter Nanoparticles Encapsulating Electron-Rich 1,2-BN-Heteroarene Enable Enzyme-Triggered AIE Measurement of α -Amylase. **in preparation**

12. Spectroscopic, Thermal and Mass Spectrometry Investigations of Mechanochemically Synthesized Deep Eutectic Solvents *New. J. Chem.*, **2026 Accepted 5-4-2026**

11. Carl Jacky Saint-Louis,* Lingaraju Gorla, Ophelia Adjei-sah, **Lilianna Kocai**, **Miriam Raggs**, **Zaynab Khan**, **Yawa Eho**, **Riley Goering**, **Ashley Warren**, Misgana Idris,^aRajendra Prasad Nandi, Blaise Williams, Sanjay Dutta, Petia P. Bobadova, Frieder Jaekle, and Masafumi Yoshinaga *Regioselective -NO₂ Substitution Enables Tunable Photophysics and Molecular Packing in a Polycyclic 1,2-BN Heteroarene Framework*. *J. Mater. Chem. C*, **2026,14**, 3492-3503. ***Featured as a HOT PAPER and Selected as front cover of JMCC Journal** *J. Mater. Chem. C*, **2026, 14**, 3359-3360

10. Albert D. Campbell Jr., Lingaraju Gorla, Ophelia Adjei-Sah, Stephen O. Ajagbe, Blaise Williams, Samer Gozem, Mohammad A. Halim and Carl Jacky Saint-Louis* *Pro-Fluorescent Ethynylthiophene-Based o-Nitrobenzyl Photolabile Protecting Group for Hydroxamic Acid Synthesis*. *Org. Biomol. Chem.*, **2025**, 23, 8442-8451 <https://doi.org/10.1039/D5OB00859J>

***Selected as front cover of OBC Journal** [Front Cover. *Org Biomol Chem* **2025**, 23 \(37\), 8343–8344.](https://doi.org/10.1039/D5OB00859J)

9. Olawuyi, Oluseyi; Bin Rafiq, Md. Basir; **Ahmed, Sabbir**; Bhattarai, Anusha; Adjei-sah, Ophelia; **Ghasemi, Mahdi**; Efaz, Faiyaz Md.; Hanna, Abdul; Carl Jacky Saint-Louis* and Halim, Mohammed. *Ind. Eng. Chem. Res.* **2024**, 63, 47, 20475–20485. <https://doi.org/10.1021/acs.iecr.4c02346>

8. **Md Jaish Uddin**; **Mahdi Ghasemi**; **Cladie White**; Anusha Bhattarai; Hasina Akhter; Abdul Hannan; Carl Jacky Saint-Louis* and A. Mohammad Halim. *New J. Chem.*, **2024**, 48, 17849-17864. <https://doi.org/10.1039/D4NJ02664K>

7. Campbell, Jr. D. A.; Ellis K.; Gordon, L. K.; Riley, J. E.; Le, V.; Hollister, K. K.; Ajagbe, S. O.; Gozem, S.; Hughley, R. B.; Boswell, A. M.; Adjei-sah, O.; Baruah, P. D.; Malone, R.; Whitt, L.; Gilliard, R. J. Jr.; and Saint-Louis, C. J.* *J. Mater. Chem. C*, **2023**, 11, 13740-13751 <https://doi.org/10.1039/D3TC03278G>

***Theme Collection: MyFirstJMCC**

6. Ali, Md A.; Kaium, Md A.; Uddin, S. N.; Uddin, Md J.; Olawuyi, O.; Campbell Jr., A. D.; Carl Jacky Saint-Louis*; Halim, M. *ACS Omega*, **2023**, 8, 41, 38243–38251 <https://doi.org/10.1021/acsomega.3c04570>

5. Carl Jacky Saint-Louis*; Warner, D. J.; Keane, K. S.; Kelley, M. D.; **Meyers, C. M.**; Blackstock, S.C. *J. Org. Chem.* **2021**, 86, 17, 11341-11353. <https://doi.org/10.1021/acs.joc.1c00763>

4. **Jarvis, T.**; Carl Jacky Saint-Louis*; Fisch, A. R.; Barnes, K. L.; Dean, D.; Flores, L. A.; Hunt, T. F.; Munro, L.; Simmons, T. J.; Catalano, V. J.; Zhu, L.; Schrock, A. K.; Huggins, M. T. *Tetrahedron*, **2018**, 74, 1698-1704. <https://doi.org/10.1016/j.tet.2018.02.037>
3. Carl Jacky Saint-Louis*; **Shavnore, R.N.**; **McClinton, C.D.**; **Wilson, J.A.**; **Magill, L.L.**; **Brown, B.M.**; Lamb, R.W; Webster, C.E.; Huggins, M.T *Org. Biomol. Chem.*, **2017**, 15, 10172–10183. <https://doi.org/10.1039/C7OB02415K>
2. Schrock, A.K.; **Hamilton, H.S.C.**; **Thompson, B.D.**; **Ulrich, K.**; **del Rosario, C.**; Carl Jacky Saint-Louis*; Coggio, W. D. *Polymer (Guildf)*. **2017**, 114, 103–112. <https://doi.org/10.1016/j.polymer.2017.02.092>
1. Carl Jacky Saint-Louis*; **Magill, L. L.**; **Wilson, J. A.**; **Schroeder, A. R.**; **Harrell, S. E.**; **Jackson, N. S.**; **Trindell, J. A.**; **Kim, S.**; **Fisch, A. R.**; **Munro, L.**; **Catalano, V. J.**; Webster, C. E.; Vaughan, P. P.; Molek, K. S.; Schrock, A. K.; Huggins, M. T. *J. Org. Chem.* **2016**, 81 (22), 10955–10963. <https://doi.org/10.1021/acs.joc.6b01998>
***Highlighted** in SYNFORM as SynFact of the month for its novelties.
SYNFACT, **2017**, **13** (01), **0031**. “*The Synthesis and Characterization of Highly Fluorescent Polycyclic Azaborine Chromophores.*”) *

IV. PATENTS

Undergraduates are in **Bold**, Master students and post-doctoral are underline, and PI has *

4. Carl Jacky Saint-Louis*; Lingaraju Gorla; and Blaise Williams Stimuli-Responsive Multifunctional Fluorescent Azaborine Materials. Provisional Patent file date: September 25, 2025.
3. Carl Jacky Saint-Louis*; Lingaraju Gorla; and Blaise Williams Stimuli-Responsive Pyrrolidinone-Fused-1,2-Azaborine Fluorescent Azaborine Materials. Provisional Patent file date: September 25, 2025.
2. Saint-Louis, Carl J.*; Campbell, Albert D.; Adjei-Sah, Ophelia SYSTEMS AND METHODS FOR THE SYNTHESIS OF PHOTOLABILE PROTECTING GROUPS, US Patent Appl. No. 065848.0045P1. (non-provisional Patent application sent to patent office on 8/29/2025)
1. Blackstock, S.; Gray, L. T.; Kelley, M.; Carl Jacky Saint-Louis* Redox Auxiliary Catalysis, US Patent Appl. No. US 9,469,602 B2.

V. BOOK CHAPTER

Warner, D. J., Keane, K. S., Carl Jacky Saint-Louis* and Blackstock, S. C. Bridged Azobenzenes and Their Biological Applications. In *The Chemistry of Nitrogen-Rich Functional Groups*; Liebman, J. F., Greer, A., Eds.; Patai's Chemistry of Functional Groups Series, John Wiley & Sons, 2019, ch 9; pp 251-285.

VI. HONORS, AWARDS, AND FELLOWSHIPS

- 2026 **2026 Outstanding Undergraduate Research Mentor** from the College of Science and Mathematics at KSU as a faculty who exhibits sustained exceptional mentoring of undergraduate researchers at Kennesaw State University.
- 2026 **2025-2026 Outstanding Early Career Faculty Award** from the College of Science and Mathematics at KSU in recognition of excellence in teaching, research, and service, and for demonstrated potential to make sustained and impactful academic contributions
- 2025 Selected as one of two nominees nationwide to participate in the NSF Center for Computer-Assisted Synthesis (C-CAS) and the [Data Chemist Network \(DCN\)](#)—a prestigious initiative recognizing leaders in data-driven chemistry. (2025-active)
- 2025 ACS Petroleum Research Fund Undergraduate New Investigator (UNI) Award \$55,000 (2025-active)
- 2024 **2024 Apex Award Honoree** for outstanding achievements and contributions to research and scholarship at KSU, awarded by KSU's Executive Vice President of Research, Dr. Karin Scarpinato. KSU's President, Dr. Kathy Schwaig, presented this award to recognize my achievement.
- 2024 Selected by the office of research as One of the Top Researchers at Kennesaw State University for the academic year 2023-2024.
- 2021-2024 Recognition by CSM at KSU for Federally Funded Research for the academic year.
- 2023 **College of Science and Mathematics Teaching Excellence Award** for significantly impacted teaching within the College of Science and Mathematics in 2023.
- 2023 Nominated as the person who made the biggest difference in the life of an Advanced Majors Program student during their time at KSU at the AMP Farewell Graduating Class Toast ceremony.

- 2022 **Highlighted featured as [Faculty in Focus](#)** in the Kennesaw State University Magazine Spring 2022 Issue for obtaining prestigious NSF-LEAPS-MPS grant award.
- 2022 Faculty Summer Research Award, Summer research Fellow, CSM, Kennesaw State University.
- 2022 Faculty Research Award, SPAD research Fellow, CSM, Kennesaw State University.
- 2021 Awarded the Launching of Early-Career Academic Pathways in the Mathematical and Physical Sciences (LEAPS-MPS) grant award \$249,683 (2021-active).
- 2021 Featured on the Spring 2021 cover of [The Investigator Research Magazine](#) at KSU for outstanding federal funding and research efforts.
- 2014 Southern Regional Education Board (SREB) Dissertation Award Fellowship, University of Alabama.
- 2012 Graduate Assistance in Areas of National Need (GAANN) Fellowship Award Funded by the Department of Education, University of Alabama.

VII. FUNDED PROJECTS

6. **CCAS Agility Fund Proposal. Saint-Louis, Carl** (PI): Polycyclic 1,2-BN-Heteroarene Dyes to Enhance One-Step Luminescent Cyanoacrylate Fuming. \$25,000 (**May18, 2026- July 31, 2026**)
7. ACS Award Number: ACS-PRF Undergraduate New Investigator Award; Funding amount: \$55,000. Role: Sole PI. (**9/01/2025-8/31/2027**)
5. NIH-R15: Halim, Mohammad (PI), **Saint-Louis, Carl** (co-PI), Marshall, Madalynn (co-PI), Developing Next Generation Eutectic Solvents for Biomedical Applications **\$529,359 (9/01/2025-8/31/2028)**
4. NSF Award Number: 2202693; Centers for Chemical Innovation (CCI); *Center for Computer-Assisted Synthesis (C-CAS)*; Funding amount: \$20,000,000. PI: Dr. Olaf Wiest (University of Notre Dame); co-PIs: Drs. Nitesh Chawla (University of Notre Dame), Connor Coley (MIT), Abby Doyle (UCLA), Gabriel Gomes (Carnegie Mellon University), Olexandr Isayev (Carnegie Mellon University), Hosea Nelson (Caltech), Robert Paton (CSU), Sarah Reisman (Caltech), Richmond Sarpong (UC Berkeley), Matt Sigman (University of Utah), Dean Toste (UC Berkeley), Wei Wang (UCLA), Xiangliang Zhang (University of Notre Dame); Data Chemist Network Affiliated Faculty: Drs. **Carl Saint-Louis** (Kennesaw State University), Nicholas Ball (Pomona College), Raychelle Burks, Ampofo Darko (University of Tennessee),

Andre Isaacs (College of the Holy Cross), Jessica Kisunzu (Colorado College). Grant duration: **(9/2022 – 9/2027)**

3. NSF Award Number: 2137454; National Science Foundation Launching Early-Career Academic Pathways in the Mathematical and Physical Sciences “*Molecular Design, Synthesis, Properties, and Application of 2,5-bis(2-(4-nitrophenyl)ethynyl)thiophene Photolabile Protecting Groups for the Synthesis of Hydroxamic Acids*”. Role: Sole PI. **\$249,683 (8/2021-8/2026)**.
2. KSU-URCA “*Synthesis and Characterization of a Novel Reaction-Based Azaborine Fluorescent Probe Capable of Selectively Detect Carbon Monoxide Based on Palladium-Mediated Carbonylation Chemistry*” Role: Sole PI. **\$1,000. 2021**.
1. KSU Mentor Protégé Research Program Grants ‘*Solvatochromic and Aggregation-Induced Emission Active Nitrophenyl-Substituted Pyrrolidinone-Fused-1,2-Azaborine with a Pre-Twisted Molecular Geometry*’. Role: Sole PI. **\$3,000 (2020–2021)**.

VIII. SCIENTIFIC PRESENTATIONS

Invited Lectures

Completed

17. Georgia State University, Atlanta, GA, October 31st, 2025
16. Computer Assisted Synthesis (CCAS) Semiannual Meeting Series 2025, October 13, 2025
15. ACS Fall 2025, Washington, DC, August 21, 2025
14. NSF-CCAS-DCN, July 14, 2025
13. Georgia State University, Atlanta, GA, March 7th, 2025
12. SERMACS, Atlanta, GA, October 25th, 2024
11. Kennesaw State University, Kennesaw GA, November 23th, 2024
Research Pitch at Health and Wellness Research Community
10. Georgia State University, Atlanta, GA, April 13, 2024
keynote speaker at GA-AL Louis Stokes Alliance for Minority Participation 2024 Annual Research Symposium
9. ACS Spring 2024, New Orleans, Louisiana, March 18th, 2024
8. SERMACS, Durham, NC, October 26th, 2023
7. ACS Spring 2023: Crossroads of Chemistry, Indianapolis, IN, March 29, 2023
6. The University of Alabama in Tuscaloosa, Tuscaloosa, AL, February 23, 2023
5. Kennesaw State University, PechaKucha, Kennesaw GA, November 7th, 2022
4. Georgia State University, Atlanta, GA, August 5th, 2022
41st Annual Biological Stain Commission Conference “*Emerging Innovations and Research in Fluorescence Stain/Dye Applications*”
3. McEachern High School, Powder Springs, GA, April 30th, 2022
Interact with STEM professionals to gain interest in STEM careers
2. SERMACS, Birmingham, AL, November 11th, 2021
Distinguished Speaker. Highlighted in NOBCCHE
1. Pacific Northwest National Laboratory, Richland, WA March 30th, 2020

IX. MENTORING AND STUDENT SUCCESS

Postdoctoral Researcher

- Lingaraju Gorla (current) coauthored one publication and two patents.

Master's Students

- Leanna McKenzie (Spring 2026-present)
- Blaise Williams, *Peach State Bridges to the Doctorate Award, 2026 Outstanding Graduate Student in the Master of Science in Chemical Sciences (MSCB)*, coauthored two publications and two patents. (Fall 2024-present)
- Mukeh Cafarina Ngubui (Fall 2025-present)
- Albert Campbell, Jr. (M.S. completed 2024, now earning Ph.D. at Louisiana State University), *Peach State Bridges to the Doctorate Award*, coauthored three publications and one patent.
- Ophelia Adjei-sah, (M.S. completed 2024, now associate scientist at Coca-Cola), *Valor Award*, coauthored four publications and one patent.
- Robert Hughley, (M.S. completed 2021, now earning Ph.D. at GA Tech), Tuition Assistance Program (TAP), coauthored one publication.

Undergraduate Students

- Geni Insalaca (October 2025–present)
- Skylar Seetaram (October 2024–present), First-year and Sophomore Scholar Awards.
- Lilianna Kocai (October 2023–present), First-year, Sophomore, and Junior Scholar, Undergraduate Research Award in Organic Chemistry. coauthored one publication
- Jacob Erasmus (October 2023–December 2024), First-year and Sophomore Scholar Awards.
- Ra'Nya Malone (Spring 2023–Fall 2024), Funded by LSAMP and Birla Carbon, coauthored one publication, Sophomore Undergraduate Research Award and the Undergraduate Research Award in Organic Chemistry. coauthored one publication
- Albert Campbell, B.S. Biochemistry May 2022 (Spring 2021-Spring 2022), M.S. in 2024, coauthored three publications with one featured as front cover of OBC, earning Ph.D. at LSU.
- Kaia Ellis, BS Biochemistry December 2022, (Fall 2021-Fall 2022), coauthored one publication, Earning Ph.D. at Temple University.
- Adeline Boswell, BS Biochemistry May 2023, (Spring 2022-Spring 2023), coauthored one publication, crime lab Scientist in toxicology at Georgia Bureau of Investigation.
- Lyric K. Gordon, BS Chemistry May 2023, M.S. in Chemistry in 2024, (Spring 2021-Spring 2024), coauthored one publication.
- Janiyah Riley, BS Biochemistry May 2022, (Spring 2022). Graduated and Ass. Scientist at Alcon Pharmaceutical, coauthored one publication.
- Temitope Folorunsho (Fall 2021) graduated.
- Samuel Moore, BS Biochemistry (Fall 2021-Spring 2022), Merck Index Award, Double Owl student at KSU. Graduated and earning Ph.D. at Emory University.

High School Students

- Prioska D. Baruah, Lassiter High School, Spring 2023 – Fall 2024 (co-authored one publication)
- Alexandru N. Tapu, Lassiter High School, Summer 2024 (two manuscripts in preparation)

X. TEACHING EXPERIENCE AND DEVELOPMENTS

(At KSU)

Spr 2026	CHEM 6420/4420 Identification of Organic Compounds (Cross-leveled)
F 2025	SCM 2000 Culture of Science and Math (CURE Course)
Spr 2025	CHEM 6420/4420 Identification of Organic Compounds (Cross-leveled)
F 2024	SCM 2000 Culture of Science and Math (CURE Course)
Spr 2024	CHEM 6420/4420 Identification of Organic Compounds (Cross-leveled)
F 2023	SCM 2000 Culture of Science and Math (New CURE Course)
Spr 2023	CHEM 6420/4420 Identification of Organic Compounds (New course)
F 2022	CHEM 3362L Organic Chem II Lab & CHEM 3362 Organic Chem II
Spr 2022	CHEM 3362 Organic Chem II
F 2021	CHEM 3362L Organic Chem II Lab & CHEM 3362 Organic Chem II
Spr 2021	CHEM 3361L Organic Chem I Lab
F 2020	CHEM 3361L Organic Chemistry I Lab

XI. PROFESSIONAL ORGANIZATIONS, SERVICES AND LEADERSHIP ACTIVITIES

(As PI)

2026-	Presider at ACS
2025-	Presider at ACS
2025-	Dissertation reviewer for the Indian Institute of Science
2024-	Conference USA Faculty Achievement Award
2024-	Information Technology Advisory Committees
2024-	Department Faculty Councils (DFCs) committee
2024-2025	Department chair search committee
2020-	Graduate Studies Committee (Chemistry Department)
2022-	MSCB Graduate Admissions Committee
2023	Presider at SERMACS
2023-	Presider at ACS
2023-2024	Diversity and Inclusion Awards Committee
2023-2024	Department chair search committee
2020-2024	organic subdivision on the undergraduate curriculum committee and have served as Chair since Fall 2022
2022-2023	CSM cluster hire
2022-	Facilitator for the Georgia Chemistry Olympiad National Competition
2021-	Search committee for organic chemistry lecturers
2020-2021	<i>ad hoc</i> Grade Appeal Panel

2021 Facilitator in the ACS Georgia local section
2021- Facilitator for the Georgia Chemistry Olympiad National Competition
2004- American Chemical Society

Reviewing Activities

Journal of American Society (JACS), Daltons Transactions (RSC), New Journal of Chemistry (RSC), Journal of Nanoparticle Research, Chemical Communication (RSC), ACS-PRF and NSF panels.

*2026 Outstanding Reviewer Award for New Journal of Chemistry (RSC) 4/29/2026

XII. REGIONAL AND NATIONAL MEETINGS PRESENTATION

36. Blaise Williams and Carl Jacky Saint-Louis*, “Engineering polycyclic 1,2-BN-heteroarenes for stimuli-responsive materials via electron-deficient heterocycle substitutions” ACS Spring 2026. Atlanta, GA, 3/24/2026 (Poster Presentation)
35. Blaise Williams and Carl Jacky Saint-Louis*, “Positional Effects of Electron-Deficient Heterocycles on the Emission and Aggregation Behavior of polycyclic-1,2-BN-heteroarenes” KSU Symposium of Student Scholars. Kennesaw, GA, 4/22/2026 (Poster Presentation)
34. **Skylor Seetaram**, Blaise Williams, and Carl Saint-Louis*, “Positional Effects of Electron-Deficient Heterocycles on the Emission and Aggregation Behavior of Polycyclic-1,2-BN-Heteroarenes,” presented at the ACS Spring 2026, Atlanta, GA, 3/24/2026. (Poster Presentation)
33. **Skylor Seetaram**, Blaise Williams, and Carl Saint-Louis*, “Positional Effects of Electron-Deficient Heterocycles on the Emission and Aggregation Behavior of Polycyclic-1,2-BN-Heteroarenes,” presented at the NCUR 2026, Richmond, VA, 4/14/2026. (Oral Presentation)
32. **Skylor Seetaram**, Blaise Williams, and Carl Saint-Louis*, “Positional Effects of Electron-Deficient Heterocycles on the Emission and Aggregation Behavior of Polycyclic-1,2-BN-Heteroarenes,” presented at the KSU Spring Symposium of Student Scholars 2026, Kennesaw, GA, 4/22/2026. (Poster Presentation)
31. **Lilianna Kocai**, Lingaraju Gorla, Blaise Williams, **Ra’Nya Malone**, **Alexandru N. Tapu** and Carl Saint-Louis*, “New electron-rich polycyclic 1,2-BN-heteroarenes with phenyl spacer: Synthesis and photophysical properties,” presented at the ACS Spring 2026, Atlanta, GA, 3/24/2026. (Poster Presentation)
30. **Lilianna Kocai**, Lingaraju Gorla, Blaise Williams, **Ra’Nya Malone**, **Alexandru N. Tapu** and Carl Saint-Louis*, “New Electron-Rich Polycyclic 1,2-BN-Heteroarenes with Phenyl Spacer: Synthesis and Photophysical Properties,” presented at the NCUR 2026, Richmond, VA, 4/14/2026. (Oral Presentation)
29. **Lilianna Kocai**, Lingaraju Gorla, Blaise Williams, **Ra’Nya Malone**, **Alexandru N. Tapu** and Carl Saint-Louis*, “New electron-rich polycyclic 1,2-BN-heteroarenes with phenyl spacer:

- Synthesis and photophysical properties,” presented at the KSU Spring Symposium of Student Scholars 2026, Kennesaw, GA, **4/22/2026**. (Poster Presentation)
28. Carl Jacky Saint-Louis* “Designing Pro-Fluorescent *o*-Nitrobenzyl Photocages for Hydroxamic Acid Synthesis” presented at the ACS Spring 2026, Atlanta, GA, **3/25/2026**. (Oral Presentation)
 27. Carl Jacky Saint-Louis* “Honoring Excellence in Academia” presented at the KSU Spring 2026, Atlanta, GA, **2/11/2026**. (Oral Presentation)
 26. Blaise Williams and Carl Jacky Saint-Louis* “Engineering Polycyclic 1,2-BN-Heteroarenes for Stimuli-Responsive Materials via Electron-Deficient Heterocycle Substitutions” KSU Symposium of Student Scholars. Marietta, GA on **11/20/2025** (In-Person Oral Presentation)
 25. **Lilianna Kocai**, **Ra’Nya Malone**, Blaise Williams, Lingaraju Gorla, **Alexandru Tapu** and Carl Jacky Saint-Louis* “New Stimuli Responsive Multifunctional Electron-Rich Polycyclic 1,2-BN-Heteroarenes” KSU Fall Symposium 2025, Kennesaw GA on **11/20/2025** (Oral Presentation)
 24. **Skylor Seetaram** and Carl Saint-Louis* “Positional Effects of Electron-Deficient Heterocycles on the Emission and Aggregation Behavior of polycyclic-1,2-BN-heteroarenes” KSU Fall Symposium of Student Scholars 2025. Marietta, GA on **11/19/2025** (Poster Presentation)
 24. Blaise Williams, Lingaraju Gorla, **Skylor Seetaram** and Carl Jacky Saint-Louis* “Engineering Polycyclic 1,2-BN-Heteroarenes for Stimuli-Responsive Materials via Electron-Deficient Heterocycle Substitutions” 44th Annual BSC Conference. Atlanta, GA on **10/31/2025** (Poster Presentation).
 23. Carl Jacky Saint-Louis* “Designing electron-deficient stimuli-responsive multifunctional fluorescent materials” ACS Fall 2025. Washington, DC on **8/21/2025** (Oral Presentation)
 22. Michelle Head, Carl Saint-Louis,* Rajnish Singh, and Sarah Wilson, Innovatively integrating a Course based Undergraduate research experience (CURE) into a first-year seminar course for STEM majors to enhance undergraduate research participation” ACS Fall 2025. Washington, DC on **8/19/2025** (Poster Presentation)
 21. Lingaraju Gorla, **Ra’Nya Malone**, **Alexandru N. Tapu**, and Carl Saint-Louis,* “New electron-rich pyrrolidinone fused-1,2-azaborines as stimuli responsive multifunctional fluorescence materials” ACS Fall 2025. Washington, DC on **8/20/2025** (Poster Presentation)
 20. Blaise Williams, Lingaraju Gorla and Carl Jacky Saint-Louis* “Impact of electron-deficient heterocycles on the photophysical properties of pyrrolidinone fused-1,2-azaborine” ACS Fall 2025. Washington, DC on **8/20/2025** (Poster Presentation)
 19. **Skylor Seetaram** and Carl Jacky Saint-Louis* “Engineering Stimuli-Responsive Multifunctional Fluorescent Materials” at KSU Symposium of Scholars 2025. Kennesaw, GA, USA. **4/17/2025** (Poster Presentation)
 18. **Lilianna Kocai** and Carl Jacky Saint-Louis* “The effect of sterics and pre-twisted molecular geometry on the photophysical properties of nitrophenyl-substituted polycyclic 1,2-BN heteroarenes” at KSU Symposium of Scholars 2025. Kennesaw, GA, USA. **4/16/2025** (oral Presentation)
 17. **Lilianna Kocai** and Carl Jacky Saint-Louis* “Pre-Twisted Molecular Geometry's Effect on the Optical Properties of Nitrophenyl Substituted Polycyclic 1,2-BN Heteroarenes” National Conference on Undergraduate Research (NCUR) 2025. Pittsburgh, PA, USA. **4/9/2025** (Poster Presentation)

16. **Lilianna Kocai** and Carl Jacky Saint-Louis* “Nitro Substituted Polycyclic 1,2-BN Heteroarenes: Synthesis and Photophysical Properties” SURC 2025. Kennesaw, GA **2/1/2025** (oral presentation)
15. **Lilianna Kocai** and Carl Jacky Saint-Louis* “Pre-Twisted Molecular Geometry's Effect on the Optical Properties of Nitrophenyl Substituted Polycyclic 1,2-BN Heteroarenes” 29th Annual Symposium of Student Scholars at Kennesaw State University on **10/16/2024** (Poster Presentation) *Lilianna won Second Runner-Up, Undergraduate.*
14. **Jaco Erasmus** and Carl Jacky Saint-Louis* “Electron-Rich Polycyclic aromatic compounds containing a Boron-Nitrogen bond: Synthesis and Optical Properties” 29th Annual Symposium of Student Scholars at Kennesaw State University on **10/16/2024** (Poster Presentation)
13. **Ra’Nya Malone** and Carl Jacky Saint-Louis* “Multifunctional Electron-Rich Polycyclic 1,2-BN-Heteroarenes: Synthesis, Optical Properties, and Applications” 29th Annual Symposium of Student Scholars at Kennesaw State University on **10/16/2024** (Poster Presentation)
12. **Ra’Nya Malone** and Carl Jacky Saint-Louis* “Investigating the influence of Nitro group’s location on the optical properties of pyrrolidinone-fused-1,2-azaborine chromophores” ACS Spring 2024. New Orleans, Louisiana on **3/19/2024** (Poster Presentation)
11. **Ophelia Adjei-Sah, Albert Campbell** and Carl Jacky Saint-Louis* “Molecular design of a novel thiophene-derived *o*-nitrobenzyl photolabile protecting group with visible light-absorption for the synthesis of hydroxamic acids” ACS Spring 2024. New Orleans, Louisiana on **3/19/2024** (Poster Presentation)
10. **Lilianna Kocai** and Carl Jacky Saint-Louis* “Synthesis and Characterization of Unnatural α,α -Disubstituted Amino Acids for Peptide Therapeutics” National Conference on Undergraduate Research (NCUR) 2024. Long Beach, CA 90802. **4/9/2024** (Poster Presentation)
9. **Albert Campbell, Ophelia Adjei-Sah, Kaia Ellis** and Carl Jacky Saint-Louis* “Molecular Design and Application of a Pro-fluorescent Thiophene-Based *o*-Nitrobenzyl Photolabile Protecting Groups for the Synthesis of Hydroxamic Acids” 28th Annual Symposium of Student Scholars at Kennesaw State University in **Spring 2024** (Oral Presentation)
8. **Ophelia Adjei-Sah, Albert Campbell, Kaia Ellis** and Carl Jacky Saint-Louis* “Molecular Design and Synthesis of Thiophene-Based *O*-Nitrobenzyl Group: A Visible Light-Absorbing Pro-Fluorescent Photoremovable Protecting Group for Hydroxamic Acid Synthesis” 28th Annual Symposium of Student Scholars at Kennesaw State University in **Spring 2024** (Oral Presentation)
8. **Ra’Nya Malone, Lyric Gordon** and Carl Jacky Saint-Louis* “Effect of Nitro Group Position on the Optical Properties of Pyrrolidinone-Fused-1,2-Azaborine Chromophores” 27th Annual Symposium of Student Scholars at Kennesaw State University in **Fall 2023** (poster Presentation)
6. **Adeline Boswell, Ra’Nya Malone,** and Carl Jacky Saint-Louis* “Impact of Substitution Position on the Photophysical Properties of Pyrrolidinone-Fused 1,2-Azaborines Chromophores” 27th Annual Symposium of Student Scholars at Kennesaw State University in **Fall 2023** (poster Presentation)
5. **Kaia Ellis, Lyric Gordon** and Carl Jacky Saint-Louis* “Structural effects on the photophysical properties of tunable pyrrolidinone-fused 1,2 azaborines chromophores with a phenyl spacer.” ACS Spring 2023: Crossroads of Chemistry Indianapolis, IN (**3/28/2023**) (Poster Presentation)

4. **Samuel Moore** and Carl Jacky Saint-Louis* “Synthesis and Characterization of a Novel Reaction-Based Azaborine Fluorescent Probe Capable of Selectively Detecting Carbon Monoxide Based on Palladium-Mediated Carbonylation Chemistry.” 26th Annual Symposium of Student Scholars at Kennesaw State University on. Kennesaw, GA (**04/19/2022**) (Poster Presentation)
3. **Kaia Ellis, Janiyah Riley, Lyric Gordon,** and Carl Jacky Saint-Louis* “Azaborines versus Azaborines with a Spacer: Structural Effects on the Photophysical Properties of Tunable Azaborine Chromophores” 26th Annual Symposium of Student Scholars at Kennesaw State University on. Kennesaw, GA (**04/19/2022**) (Poster Presentation)
2. **Albert Campbell, Janiyah Riley, Samuel Moore,** and Carl Jacky Saint-Louis* “Ketal-Azaborines versus Ketal-Azaborines with a Spacer: Structural Effects on the Photophysical Properties of Tunable Heteroaromatic Polycyclic Azaborine Chromophores” 26th Annual Symposium of Student Scholars at Kennesaw State University on. Kennesaw, GA (**04/19/2022**) (Poster Presentation)
1. Robert Hughley and Carl Jacky Saint-Louis* “Synthesis and Characterization of Azaborine-Boronic Acid Photoinduced Electron Transfer (PET) Fluorescence Sensor for Monosaccharides” 25th Annual Symposium of Student Scholars at Kennesaw State University in Kennesaw, GA (**04/29/2021**) (Virtual Presentation)