

Oluwafemi Ogunlalu

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Education

Ph. D. in Chemistry, *August 2018 – Present*

Purdue University, West Lafayette, IN

Advisor: Professor Bryan W. Boudouris

Thesis: Verdazyl-based Radical Polymers and their Application in Electromagnetic Devices

M. S. in Food Technology, *August 2018*

University of Reading, England

B. S. in Chemistry, *August 2016*

Federal University of Technology Akure, Nigeria

Research Experience

Graduate Research Assistant/PHD Candidate

November 2018 – Present

Polymers for Optoelectronics and Widespread Energy Research
(POWER) Laboratory, Purdue University

- Synthesis and characterization of organic molecules & polymers.
- Design of new verdazyl-based radical polymers.

Graduate Research Assistant

May 2018 – August 2018

Food for Diabetes & Cognition, University of Reading

- Optimized production and extraction process of polyphenols using colloidal gas aphrons (CGA).
- Successfully experimented a low-cost extraction method for obtaining polyphenols from blackcurrant pomace using whey.
- Trained two Visiting Professors on CGA technology and its application to small-scale production firms.

Food Packaging Leader

February 2018 – October 2018

EIT Food Generator Track

- Worked as part of a new product development team disrupting food wastage in Europe. Head of the food packaging section of a croquette-like product made from less-wanted potatoes.
- Actively participated in designing food safety and processing directions for the team.
- Carried out large-scale product testing at Deutsches Institut für Lebensmitteltechnik's (DIL) Facility, Germany.
- Received technical and financial backings from EUFIC, DIL, Puratos and Colruyt Groups.

Quality Control Intern

July 2015 – November 2015

Seven-Up Bottling Company (SUBCo)

- Responsible for quality control analyses for a vast range of beverage brands.
- Worked in the CO₂ production plant and assisted in coordinating its supply across production lines.
- Assisted the Environmental Lab in carrying out processes for the reduction of organics and metal ions in effluents.

Leadership

- **Teaching:** Taught & supervised 200+ students in General Chemistry at Purdue University for 3 semesters.
- **Research:** Mentored undergraduate students on polymer synthesis and characterization for 2 semesters.
- **Laboratory:** Presently serving as a Safety Officer – a role I have held for 6 semesters.
- **Department:** I sit on the board of the Professional Development Committee and organize career workshops for >300 graduate students.
- **Mentoring:** Coached >50 graduate students of African descent to win scholarships across Europe & North America.

Publications and Presentations

- “Verdazyl-based radical polymers and their performance in organic electrochemical transistors,” Ogunlalu, O.U.; Kim, H.J.; Perera, K.; Brayton, K.; Wu, Y.; Mei, J.; Boudouris, B.W. *American Physical Society Annual March Meeting* **2021**
- “Extraction of polyphenols from blackcurrant pomace by a floatation method and food grade surfactants,” Ogunlalu, O.U.; Durmaz, G.; Jauregi, P. *Mission 10.000 Conf. Proceedings* **2018**
- “Effect of fermentation on the physicochemical properties and nutritionally available minerals of locust bean (*Parkia biglobosa*)” Iheke, E.; Aladesanmi, O.; Omoboye, A.J.; Ogunlalu, O.U. *Amer. J. Food Tech.* **2017**, 6, 379-384
- “Adsorption studies of Pb²⁺ from aqueous solutions using unmodified and citric acid-modified plantain (*Musa paradisiaca*) peels,” Aderibigbe, A.D.; Ogunlalu, O.U.; Oluwasina, O.O.; Amoo, I.A. *IOSR Journal of Applied Chemistry* **2017**, 10, 30-39

Selected Honors and Awards

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| • Verizon/VERGE Emerging Leader Award | 2020 |
| • EIT Food Recognition Award | 2018 |
| • Purdue Doctoral Scholar | 2018 |
| • Commonwealth Shared Scholar | 2017 |
| • Dean’s List | 2011-2016 |
| • Most Outstanding Graduate, Chemistry Department FUTA | 2016 |
| • Faculty Prize, FUTA | 2016 |
| • A.F. Adeyekun’s Prize | 2016 |
| • APM Terminals Scholar | 2016 |
| • SCSN Excellence Award | 2016 |

Skills

- **Technical:** Polymer Synthesis, Chromatography, Characterization of molecules (UV, AAS, NMR, EPR, MS, DSC, GPC, IR), High Proficiency in the use of MestreNova, LoggerPro, Origin, Python and ChemDRAW.
- **Soft:** Strong communication, adaptability, team-spirit and innovation-centric.
- **Interests:** Travelling, music, soccer, and volunteering (Purdue BGSA, Purdue Chemistry & Purdue Chi Alpha)