# Summary

Norfolk State University Honors College Graduate with 9 years’ practical laboratory experience. I have taught a total of six General Biology lab courses. My laboratory experience is including chromatographic analysis methods; capturing and recording the results of analytical testing and submitting samples for testing. Extensive experience documenting complex experimental details and entering data into computer databases and manually in laboratory notebooks. Advanced understanding of microbiology, how to culture and isolate organisms. Aseptic technique skills with the ability to safety handle pathogens. Microbiological analyses including bioburden testing, water testing and data entry.

Microsoft Certified Professional, proficient in all Microsoft Office products and computer applications for data collection and report generation. Professional with great interpersonal and communication skills.

# Education

M.S. Biology, Virginia State University, Petersburg, Virginia, May 2016

B.S. Biology, Norfolk State University, Norfolk, Virginia, December 2013

A.A.S. General Studies, Southside Virginia Community College, Keysville, Virginia, May 2010

# Laboratory Experience

The laboratory equipment I have used and am proficient in using includes but is not limited to; hand held micrometer, chromatographic analysis tools including chroma meter, test tube shakers, floor and bench centrifuges, Environmental Chamber, Spectrophotometer, Texture Analyzer (Burst Strength and Displacement), Thermogravimetric Analyzer, X-Ray Diffractometer, Scanning Electron (SEM) Microscope, Transmission Electron Microscope (TEM), Light Microscope, Potentiostat Machine, Cyclic Voltammetry (CV), Energy Dispersive X-Ray Spectroscopy (EDS), Autoclave Operation and Maintenance, Calorimeter, Reading Meniscus, Drying & Cleaning Glassware, Beakers, Graduated Cylinders, Erlenmeyer flasks, Volumetric flasks, Filter flasks, Test tubes, Burets, Bunsen Burner, Inoculation loops, Balances, pH meters, Buchner funnel, Separatory funnel, Mass Spectroscopy, Infrared (IR) Spectroscopy, Nuclear Magnetic Resonance (NMR) Spectroscopy, and High-performance liquid chromatography (HPLC) Analysis.

My Biological Research Catalog includes:

* **Preparation and Characterization of Antibacterial Starch Nanocomposite Films Incorporated with Grape Pomace Extract and Cellulose Nanocrystals, Virginia State University, 2015-2016**
* **Preparation and Characterization of Chitosan Films for the Application on Meat Products in the Food Packaging Industry, Virginia State University, 2016**
* **Antibacterial Comparison of Extraction Methods on Bacterial Growth in Food Packaging, Virginia State University, 2016**
* **Antibacterial Comparison of Extraction Methods on Bacterial Growth in Food Packaging, Virginia State University, 2016**
* **Antibacterial Comparison of Extraction Methods on Bacterial Spinner, Test Tubes, Incubator, *Listeria monocytogenes* and *Staphylococcus aureus.* Virginia State University, 2016**
* **Antioxidant and Antibacterial Effectiveness of Starch Nanocomposite Films for Chickpea Meat, Virginia State University, 2016**
* **Antibacterial Effectiveness of Blackberries in the Presence of *Listeria monocytogenes*, *Salmonella*, *Escherichia Coli*, and *Staphylococcus aureus* in Food Packaging, Virginia State University, 2016**
* **Development of a Sodium poly(4-styrenesulfonate) doped Polypyrrole Electrode for Calcium Detection, Norfolk State University & National Aeronautical and Space Administration (NASA) Ames Research Center, 2011-2012**
* **Getting Down and Dirty with Disinfectants: A Quasi-Experimental Study of the Effect of Different Brands of Disinfectants on Bacterial Growth, 2009-2010**

# Teaching Experience

|  |  |  |
| --- | --- | --- |
| * Tennessee State University, Department of Biology, Graduate Teaching Assistant, Nashville, Tennessee
* Virginia State University, Department of Biology, Graduate Teaching Assistant, Petersburg, Virginia
 |  |  2017 - Present2015-2016 |
| * Virginia State University, Departments of Agriculture and Biology, Graduate Research Assistant, Petersburg, Virginia
 |  | 2014-2016 |
| * Norfolk State University’s Saturday Scientist’s Academy for High School Students, Norfolk, Virginia
 |  | 2012-2013 |
| * Norfolk State University’s College of Science, Engineering, and Technology (STEM), Mentor and Tutor, Norfolk, Virginia
 |  | 2011-2013  |

#  Professional Development

|  |  |  |
| --- | --- | --- |
| * Target, Cashier, Nashville, TN
* Tennessee State University, Graduate Research Assistant, Nashville, TN
* Best Buy, Operations Warehouse Associate, Inventory and Merchandising Associate, Richmond, VA
* University of Maryland Eastern Shore, Department of Food Science and Technology Lab, Laboratory Technician, Princess Anne, MD
* Virginia State University, Department of Agriculture’s Food Processing, Engineering, and Bioprocessing Lab, Laboratory Technician, Petersburg, Virginia
* Walmart Supercenter, Customer Service Manager, Department Manager, Cashier
* NASA Ames Research Center/ Molecular Toxicology Laboratory, Norfolk, Virginia & Moffett Field, California
 |   | 2018201820172016-2017  2015-2016 2014-2015 2011-2013       |

# Conferences Attended

* Institute of Food Technologists Volunteer Section Fall 2018 October 2018
* International Association for Food Protection July 2018

 Salt Palace Convention Center, Salt Lake City, UT

* 17th Annual Vanderbilt-Ingram Cancer Center, Meharry Medical College March 2018

and Tennessee State University Cancer Partnership “Health

Disparities in Cancer Immunology & Immune Therapy” Conference

Meharry Medical College, Nashville, TN

# Conferences Serving as a Judge or Moderator

* 40th Annual University-Wide Research Symposium - Moderator April 2018

Tennessee State University, Nashville, TN

* 2018 State-Wide Food Safety Modernization Act, Food Safety, April 2018

 and Food Science Students’ Competition- Judge, Tennessee State University

 Nashville, TN

# Publications/Presentations

|  |  |  |
| --- | --- | --- |
| * Mitigating the Public Health Burden of Food and Waterborne Diseases Using Synergism of Elevated Hydrostatic Pressure, Heat, and Natural Antimicrobials
* The Impact of Dietary Components on Prevention of Salmonellosis

Journal: * Tapioca Starch Active Nanocomposite Films and Their Antimicrobial Effectiveness on Ready-to-Eat Chicken Meat

Journal: Food Packaging and Shelf Life, Volume 16 * Starch Nanocomposite Films Incorporating Grape Pomace Extract and Cellulose Nanocrystal

Journal: Journal of Applied Polymer Science, Volume 136, Issue 6  |  |  Under Revision   Under Revision February 2018  February 2017  |

# Affiliations/Memberships/Honors

|  |  |  |
| --- | --- | --- |
| * Institute of Food Technologists (IFT)
* American Society for Microbiology (AMA)
* International Association for Food Protection (IAFP)
* Minorities in Agriculture, Natural Resources, and Related Sciences (MANRRS)
 |  |  2018 - Present  2018- Present 2018 - Present2016- Present  |
| * Beta Beta Beta Biological Honor Society (BBB)
 |  | 2015-Present |
| * Beta Kappa Chi National Scientific Honor Society (BKX)
 |  | 2011-Present |
| * National Institute of Science (NIS)
 |  | 2011-Present  |
| * Alpha Kappa Mu Honor Society (AKM)
 |  | 2011-Present |
| * Golden Key International Honour Society (GK)
 |  | 2011-Present |
| * American Association of University Women (AAUW)
 |  | 2011-Present |
| * National Honor Society (NHS)
 |  | 2009-Present |
| * Future Business Leaders of America (FBLA)
 |  | 2008-Present |
| * Minorities in Agriculture, Natural Resources, and Related Sciences Unsung Hero Award
 |  | May 2017 |

|  |  |  |
| --- | --- | --- |
| * Virginia State University’s 9th Annual Spring Graduate Research Symposia, Oral Presentation Winner
 |  | April 2016 |
| * Centra Southside Community Hospital, Outstanding Volunteer Award
 |  | July 2013 |
| * Who’s Who Among Students in American Universities and Colleges
 |  | May 2012 |
| * Norfolk State University Student Ambassador Advisor’s Choice Award
 |  | April 2012 |
| * Norfolk State University Student Ambassador Chapter President’s Choice Award
 |  | April 2012 |
| * Southside Virginia Community College’s African-American History Quiz Winner
 |  | February 2010 |

# Certifications

|  |  |  |
| --- | --- | --- |
| * Commonwealth of Virginia Notary Public #7757159
* ServSafe Alcohol
* ServSafe Food Allergens
* ServSafe Food Handler
* Best Buy Operations Manager Choice MVP Award
* Microsoft Office Specialist Office Word 2016
* Microsoft Office Specialist Office PowerPoint 2016
* Seafood HACCP Course Completion: 2188-092022-47149
 |  |  November 2017  November 2017 November 2017 November 2017  November 2017 October 2017  July 2017 June 2017 September 2016 |
| * Microsoft Office Specialist Office Word 2016
 |  | July 2017 |
| * Microsoft Office Specialist Office PowerPoint 2016
 |  | June 2017 |
| * Seafood HACCP Course Completion: 2188-092022-47149
 |  | September 2016 |

# Courses Taught

* BIOL 1021-02: General Biology II Lab Fall 2018 Tennessee State University
* BIOL 1021-01: General Biology II Lab Fall 2018 Tennessee State University
* BIOL 1021-05: General Biology II Lab Spring 2018 Tennessee State University
* BIOL 1021-07: General Biology II Lab Spring 2018 Tennessee State University
* BIOL 1023: General Biology II Honors Lab Spring 2018 Tennessee State University
* BIOL 120-16: General Biology I Lab Spring 2015 Virginia State University

# Grant-Related Coursework

Grant Writing for Public Health (National Institutes of Health)- Tennessee State University- Fall 2018

American Society for Microbiology Grant Writing Online Course (National Science Foundation)-Fall 2018

# Educational Licensure Relevant Coursework

In Progress