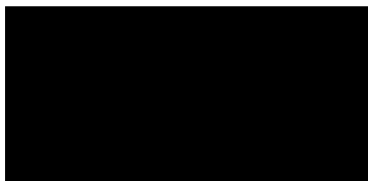


Brianne S. Nunez



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Education

August 2013- August 2018: **Undergraduate**, B.S. (Chemistry) degree at the Department of Chemistry and Biochemistry and a minor in Biology, Old Dominion University in Norfolk, VA

Awarded (08/07/18): Bachelor of Science: Major in Chemistry, Minor in Biology

Final GPA:

August 2019-Present: **Graduate**, Ph.D. (Chemistry) degree at the Department of Chemistry, Purdue University in West Lafayette, IN.

GPA:

Research Experience

Spring 2016-May 2018: Undergraduate Independent Study, Old Dominion University with Dr. Alvin A. Holder

- In Dr. Holder's Lab, under the supervision of one of his graduate students currently in the Ph.D. program; Michael J. Celestine.
 - Topic of the study: "Mechanism of the Oxidation of a Cobaloxime by Sodium Bromate in Aqueous Solution."

May 2017-August 2017: SROP Neurobiology, summer REU at University of Wisconsin-Madison, Department of Neuroscience in Dr. Cynthia Czajkowski's Lab

- Topic of study: "Does the $\beta_4 - \beta_5$ Linker Regulate Benzodiazepine Allosteric Drug Modulation of $GABA_A$ Receptor Function?"

June 2018-August 2018: Minority Health and Health Disparities International Research Training Program (MHIRT), University of Memphis, TN; Universidade Federal de Santa Catarina (UFSC), Brazil, with Dr Risoleta Marques, Dr. Alfonso Bains, and LABCAI

- Topic of Study: "Xenobiotic Effect on Catalase Enzyme Activity in Oysters"

June 2019-August 2019: Graduate Bridge Program at Purdue University, Department of Chemistry in Jean Chmielewski's Lab.

- Topic of Study: “Efficacy of Synthesized Masked Peptide in Targeted Drug Delivery to Pancreatic Cancer Cells”

Awards and Recognitions

- June 2013 and 2014: DECA Scholarship for Military Children
- Fall 2014: Induction into the National Society of Collegiate Scholars
- Spring 2015: Certificate of Academic Excellence
- Fall 2017: ABRCMS Travel Award Recipient (partial)
- Fall 2017: ABRCMS FASEB DREAM Mentored Travel Award Recipient (full)

Presentations

1. 252nd American Chemical Society National Meeting and Exposition. August 21st-25th Philadelphia, PA. Poster #250. “Mechanism of the Oxidation of a Cobaloxime by Sodium Bromate in Aqueous solution” Authors: Brianne S. Nunez, Michael J. Celestine, and Alvin A. Holder.
2. Annual Biomedical Research Conference for Minority Students (ABRCMS), November 1-4, 2017 in Phoenix, AZ. Poster A277. “Does the $\beta_4 - \beta_5$ Linker Regulate Benzodiazepine Allosteric Drug Modulation of $GABA_A$ Receptor Function?” Authors: Brianne Nunez, Vicki Tsao, and Cynthia, Czajkowski.
3. MHIRT Symposium, September 22, 2018 in Memphis, TN. Oral. “Catalase as biomarker in *Crassostrea brasiliana* exposed to xenobiotics.” Authors: Brianne Nunez; F. L. Zacchi; M. R. F. Marques

Outreach

Fall 2013: Homecoming parade, Old Dominion University, helped coordinate and conduct the parade.

Fall 2013: Member of the National Society of Collegiate Scholars.

Fall 2013-present: American Chemical Society (ACS) member

Spring 2014 and 2016: Admitted Students day, Norfolk VA. Gave directions and spoke with incoming students about what to expect when starting the process of higher education in the field of chemistry.

Spring 2015, Fall 2016, Spring 2016: ACS scouts’ day, Norfolk, Virginia. Helped several boy scouts earn their chemistry badge with different demonstrations.

Fall 2015-Spring 2018: Pre-Health club member

Fall 2016: Volunteer fundraising for Pre-Health club, helped sell programs during ODU Football game.

Technical Skills

- IR spectrometry
- Column chromatography with aqueous and non-aqueous solvents
- Thin Layer Chromatography
- Fluorescence Spectroscopy
- Gas Chromatography
- Mass Spectroscopy
- Flame Atomic Absorption
- High Pressure Liquid Chromatography
- Raman Spectroscopy
- Nuclear Magnetic Spectroscopy
- UV-visible spectroscopy; conventional and stopped-flow
- Two-Electrode Voltage Clamp
- Real Time PCR
- ChemDraw
- EndNote
- SciFinder
- Microsoft Excel and Origin 7.0/8.0

Organizations and Extracurricular Activities

- Fall 2013-present: American Chemical Society (ACS) member
- Spring 2016-Spring 2018: Demonstrations officer of the ACS students' affiliates
- Fall 2013-present: The National Society of Collegiate scholars' member
- Fall 2015-Spring 2018: Pre-Health club member.

Volunteer Work

Fall 2013: Homecoming Parade coordinator

Spring 2015-Spring 2016: Fundraising with the American Chemical Society for "Relay for Life."

Fall 2016: Football game program seller; Pre-Health club fundraiser.

Fall 2017: Old Dominion University College of Science Graduate Program exhibition booth ambassador at the Annual Biomedical Research Conference for Minority Students (ABRCMS)

Fall 2017: Old Dominion University Student Organizations ambassador for ACS at Transfer Tuesday.

October 13, 2018: Information poster presenter at 3rd annual DMV STEM Career Fair at University of District of Columbia.

Work Experience

- June 2015-August 2015: Administrative Tech, Summer Hire, Pediatrics Clinic. Keesler AFB; Biloxi MS. 40 hours per week
- June 2016-August 2016: Administrative Tech, Summer Hire, Radiology Department. Keesler AFB; Biloxi MS. 40 hours per week
- January 2018-May 2018: Laboratory Assistant for Organic Chemistry part 2. 4 hours per week

References

1. Dr. Alvin A. Holder, Old Dominion University, Department of Chemistry and Biochemistry; Old Dominion University; 4541 Hampton Boulevard, Norfolk VA. 23529-0126;
Telephone: 757-683-7102
Email: aholder@odu.edu
2. Dr. Cynthia Czajkowski, Professor, Department of Neuroscience, University of Wisconsin-Madison. 1111 Highland Ave, Madison, WI. 53705
Telephone: 608-265-5863
Email: cmczajko@wisc.edu
3. Dr. Risoleta Marques, Universidade Federal de Santa Catarina-UFSC (Federal University of Santa Catarina), Department of Biochemistry, Faculty Member
Telephone: +55 (48) 3721-6413/ Laboratory: + (48) 3721-6412
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