Kaleigh M. Margita

Margita@mailbox.sc.edu (803) 576-7888

	EDUCATION M.S. Biophysical Chemistry <i>North Carolina State University, Raleigh, NC</i> B.S. Chemistry with a Concentration in Biochemistry/ Spanish Minor <i>Newberry College, Newberry, SC</i>			August 2017 May 2014	
	GRADUATE COURSEWORK				
•	Advanced Physical Chemistry in Biology	•	Analytical Spectroscopy	•	Chemical Separations
•	Spectroscopic Methods in Chemical Biology	•	Mass Spectrometry	•	Magnetic Resonance in Chemistry
	LABORATORY SKILLS				
•	Transmission Electron Microscope	•	Infrared Spectroscopy	•	Plasma Etching
•	Nuclear Magnetic Resonance Spectroscopy	•	Dynamic Light Scattering	•	Photolithography
•	Scanning Electron Microscope	•	UV-Vis	•	Fluorometer
•	High Performance Liquid Chromatography	•	Metal Deposition	•	Microbiological Assays
•	Electron Paramagnetic Resonance	•	Microplate Reader	•	ICP Spectroscopy
•	LECO	•	VIDAS	•	Mass Spectrometry

RESEARCH

- "Effect of solution ionic strength on the pKa of the nitroxide pH EPR probe 2,2,3,4,5,5-hexamethylimidazolidin-1-oxyl" Principal Investigator: Alex I. Smirnov, Biophysical Chemistry, North Carolina State University, Raleigh, North Carolina
- "Influence of Planar Organic Electrochemical Transistor Device Geometry in the Characterization of Barrier Tissue" Principal Investigator: George Malliaras, Bioelectronics, Ecole Nationale Supérieure des Mines, France
- "Monitoring and Imaging Hypoxic Cells and Tissues Using Perfluorinated Near-Infrared Fluorescent Micelles" Principal Investigator: Dr. Sam Achilefu, Biochemistry, Washington University, St. Louis, Missouri

PUBLICATIONS

- Margita, K.; Voynov, M.; Smirnov, I. Effect of Solution Ionic Strength on the pKa of the Nitroxide pH EPR Probe 2,2,3,4,5,5Hexamethylimidazolidin-1-oxyl. *Cell Biochemistry and Biophysics*. **2017**, 75, 185-193.
- Ramuz, M.; Margita, K.; Hama, A.; Leleux, P.; Rivnay, J.; Bazin, I.; Owens, R. M. Optimization of a Planar All-Polymer Transistor for Characterization of Barrier Tissue. *ChemPhysChem.* **2015**, *16*, 1210–1216.

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PRESENTATIONS

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- "Effect of solution ionic strength on the pKa of the nitroxide pH EPR probe 2,2,3,4,5,5-hexamethylimidazolidin-1oxyl"
 - o Southeastern Regional Meeting of the American Chemical Society in Columbia, SC, October 2016
- "Influence of Planar Organic Electrochemical Transistor Device Geometry in the Characterization of Barrier Tissue"
 - o National Nanotechnology Infrastructure Network Conference in Atlanta, GA, August 10-15, 2013
 - Newberry College Research Day, 1st Place Award Winner, October 2013
 - o Southeastern Regional Meeting of the American Chemical Society in Atlanta, GA, November 2013
 - o Western Carolina Chapter of American Chemical Society at Furman University, April 2014
- "Monitoring and Imaging Hypoxic Cells and Tissues Using Perfluorinated Near-Infrared Fluorescent Micelles"
- o National Nanotechnology Infrastructure Network Conference in Washington DC, August 11-16, 2012
- Newberry College Research Day,1st Place Award Winner, October 2012
- o Southeastern Regional Meeting of the American Chemical Society in Raleigh, NC, November 2012

RELATED EXPERIENCE

•	Adjunct Chemistry Instructor, University of South Carolina	2022-2023
	 Teaching General Chemistry Lectures, Recitations, and Laboratory classes 	
•	Adjunct Chemistry Instructor, Newberry College	2022
	 Taught a combination General, Organic, and Biochemistry class 	
•	Environmental Manager II, South Carolina Department of Health and Environmental Control • Ensured compliance of water systems with regulations through sampling and inspections	2018-2021
•	Research Assistant/Graduate Student, North Carolina State University Chemistry Department • Conducted biophysical research under the guidance of Dr. Alex I. Smirnov	2016-2017
•	Graduate Student/Teaching Assistant, North Carolina State University Chemistry Department • General Chemistry Lab and Recitation instructor	2015
•	Physical Science Technician, USDA-ARS, Florence • Performed soil and cotton research with agronomist Dr. Phil Bauer	2015
•	Quality Control Laboratory Technician, <i>ISE, Newberry</i> • Performed microbiological testing and prevented industrial contamination	2014-2015
•	 Work Study Student, Newberry College Math and Science Department Organic/General Chemistry Teaching Assistant, Office Work and Laboratory Preparation 	2010-2014