

Shanina Sanders Johnson

Department of Chemistry
Spelman College
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EDUCATION

- 2004-2009 University of North Carolina at Chapel Hill
Ph.D. in Organic Chemistry
Research Advisor: Prof. Jeffrey S. Johnson
- 2000-2004 Hampton University
B.S., Chemistry, magna cum laude

PROFESSIONAL and MENTORING EXPERIENCE

- 2009-present Lecturer/Organic Lab Coordinator at Spelman College: Taught Organic Chemistry I & II, Organic labs I & II, and recitation for organic labs
- 2012-2013 Spelman College Chemistry Club Advisor
- 2012 summer Imagine That & Future Tech Science Camp Teacher: Taught science experiments in week long camps for ages 6-10
- 2012 summer Morehouse School of Medicine Academic Preparation of Excellence (APEX) Program: Prepared students for organic portion of MCAT
- 2011 Super Science Saturday chemistry club advisor: performed science experiments for middle school students
- 2011 Spelman College Annual Girls Leadership Institute: performed science experiments for 7-8th grade girls and gave a presentation about chemistry careers
- 2004-2009 Graduate Research with Professor Jeffrey S. Johnson
University of North Carolina, Chapel Hill, NC
Lewis Acid-Promoted Cycloaddition Reactions of Cyclopropanes
- 2009 Teaching assistant at UNC Chapel Hill: Taught Organic chemistry lab
- 2009 Mentored undergraduate student in lab
- 2007-2009 Blue Ribbon Mentor Advocate- met with mentee weekly or biweekly to do activities such as cooking, sports, plays, or movies

PUBLICATIONS

- 2010 Campbell, M. J.; Johnson, J.S.; Parsons, A.T.; Pohlhaus, P.D.; Sanders, S.D. "Complexity-Building Annulations of Strained Cycloalkanes and C=O π Bonds." *J. Org. Chem.* **2010**, 75, 6317-6325.
- 2009 Shanina D. Sanders, Andrea Ruiz-Olalla, Jeffrey S. Johnson, Total synthesis of (+)-virgatusin via AlCl₃-catalyzed [3+2] cycloaddition, *Chem. Comm.* **2009**, 5135-5137.
- 2008 Patrick D. Pohlhaus, Shanina D. Sanders, Andrew T. Parsons, Wei Li, and Jeffrey S. Johnson, Scope and Mechanism for Lewis Acid-Catalyzed Cycloadditions of Aldehydes and Donor-Acceptor Cyclopropanes: Evidence for a Stereospecific S_N1 Pathway, *J. Am. Chem. Soc.* **2008**, 130, 8642-8650.
- 2008 Jennifer E. Golden*, Shanina D. Sanders, Kristine M. Muller, Roland W. Bürli, Modulating *N*- versus *O*-arylation in pyrazolone-aryl halide couplings, *Tet. Lett.* **2008**, 49, 794-798.

PRESENTATIONS

- 2008 Sanders, S. D. Departmental Research Seminar, University of North Carolina at Chapel Hill
- 2007 Sanders, S. D. "Alkenyl Substituted Tetrahydrofurans via Enantiospecific Aldehyde/

- Cyclopropane Cycloadditions,*” Oral Presentation, 233rd National Meeting of the American Chemical Society, Chicago, IL, March 28, 2007
- 2006 **Sanders, S. D.** “*The Nazarov Cyclization,*” Departmental Literature Seminar, University of North Carolina at Chapel Hill, February 16, 2006

HONORS AND MEMBERSHIPS

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| 2005-present | The National Organization of Black Chemists and Chemical Engineers |
| 2003-present | American Chemical Society |
| 2002-present | Beta Kappa Chi |
| 2002-present | Golden Key Honor Society |
| 2004-2010 | National Physical Science Consortium Fellow |