

VALERIE A. SCHMIDT

Assistant Professor
Department of Chemistry and Biochemistry, UC San Diego
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EDUCATION

The University of North Carolina at Chapel Hill <i>Graduate, Ph. D.</i>	Chapel Hill, NC Aug. 2008—Aug. 2013
Towson University <i>Undergraduate</i> • B.S. in Chemistry, Professional Track with ACS certification	Towson, MD Aug. 2003—Dec. 2007

PROFESSIONAL EXPERIENCE

Assistant Professor <i>University of California San Diego</i>	La Jolla, CA July 2016—present
Postdoctoral Researcher Princeton University, Chemistry <i>Research Assistant</i> Advisor: Prof. Paul J. Chirik Principle Area of Study: Base-metal catalysis: methods development and mechanistic study	Princeton, NJ Sept. 2013—May 2016
Ph.D. Student UNC Chapel Hill, Chemistry <i>Research Assistant</i> Advisor: Prof. Erik J. Alexanian Principle Area of Study: Development of heteroatom-centered radical approaches to hydrocarbon functionalization	Chapel Hill, NC Aug. 2008—Aug. 2013
Towson University, Department of Chemistry <i>Adjunct Faculty</i> Undergraduate General Chemistry Instructor	Towson, MD Jan. 2008 —May 2008
NSF Research Experience for Undergraduates, Chemistry <i>Summer Research Assistant</i> Advisor: Prof. David A. Shultz Principle Area of Study: Progress towards the synthesis of semiquinone-bridge-nitronyl nitroxide biradicals	Raleigh, NC May 2007—Aug. 2007
Urban Environmental Biogeochemistry Lab, Towson University <i>Undergraduate Research Assistant</i> Advisors: Prof. Ryan E. Casey and Prof. Steven M. Lev Principle Areas of Study: Evaluating the role of storm water retention basins in the fate of roadway derived Zn	Towson, MD June 2006—Dec. 2007

AWARDS

• National Institutes of Health Ruth L. Kirschstein Postdoctoral Fellow	2014—2016
• Venable Award Fellowship	2012—2013
• Burroughs-Wellcome Graduate Fellowship	2011—2012
• American Chemical Society Outstanding Student Award	2007
• POLYED Undergraduate Award for Achievement in Organic Chemistry	2006

PUBLICATIONS

8. Hoyt, J. M.; Schmidt, V. A.; Tondreau, A. M; Chirik, P. J. "Iron-Catalyzed Intermolecular [2+2] Cycloadditions of Unactivated Alkenes" *Science* **2015**, *349*, 960—963.

7. Schmidt, V. A.; Hoyt, J. M.; Margulieux, G. W.; Chirik, P. J. "Cobalt-Catalyzed [2+2] Cycloadditions of Alkenes: Scope, Mechanism, and Elucidation of Electronic Structure of Catalytic Intermediates" *J. Am. Chem. Soc.* **2015**, *137*, 7903—7914.

6. Schmidt, V. A.; Quinn, R. K.; Brusoe, A. T.; Alexanian, E. J. "Site-Selective Aliphatic C-H Bromination Using *N*-Bromoamides and Visible Light" *J. Am. Chem. Soc.* **2014**, *136*, 14389—14392.
5. Quinn, R. K.; Schmidt, V. A.; Alexanian, E. J. "Radical Carboxygenations of Alkenes Using Hydroxamic Acids" *Chem. Sci.* **2013**, *4*, 4030—4034.
4. Schmidt, V. A.; Alexanian, E. J. "Metal-Free, Aerobic Ketoxygenation of Alkenes Using Hydroxamic Acids" *Chem. Sci.* **2012**, *3*, 1672—1674.
3. Giglio, B. C.; Schmidt, V. A.; Alexanian, E. J. "Metal-Free, Aerobic Dioxygenation of Alkenes Using Simple Hydroxamic Acid Derivatives" *J. Am. Chem. Soc.* **2011**, *133*, 13320—13322.
2. Schmidt, V. A.; Alexanian, E. J. "Metal-Free, Oxyaminations of Alkenes Using Hydroxamic Acids" *J. Am. Chem. Soc.* **2011**, *133*, 11402—11405.
1. Schmidt, V. A.; Alexanian, E. J. "Metal-Free, Aerobic Dioxygenation of Alkenes Using Hydroxamic Acids" *Angew. Chem. Int. Ed.* **2010**, *49*, 4491—4494.

PROFESSIONAL PRESENTATIONS

- Schmidt V. A.; Hoyt, J. M.; Margelieux, G. W.; Chirik, P. J. "Base Metal Catalyzed [2+2] Cycloadditions of Alkenes" (poster presentation). July 2015. GRC – Organic Reactions and Processes, Bates College, ME.
- Schmidt V. A.; Alexanian, E. J. "Heteroatom Centered-Radical Approaches to Hydrocarbon Functionalization" (poster presentation). July 2013. GRC – Organic Reactions and Processes, Bryant University, RI.
- Schmidt V. A.; Alexanian, E. J. "Metal-Free, Aerobic Ketoxygenations of Alkenes Using Hydroxamic Acids" (oral presentation). March 2012. The 243rd ACS National Meeting, San Diego, CA.
- Schmidt V. A.; Alexanian, E. J. "Metal-Free, Aerobic Dioxygenation of Alkenes Using Hydroxamic Acids" (oral presentation). August 2010. The 240th ACS National Meeting, Boston, MA.
- Schmidt, V. A.; Flora, R. F.; Casey, R. E.; Lev, S. M. "Evaluating the role of storm water retention basins in the fate of roadway derived zinc" (poster). November 2007. The 28th SETAC North America Annual Meeting, Milwaukee, WI.