

## EDUCATION

- Ph.D., Chemistry 2007 - 2012  
**University of Michigan** - Ann Arbor, MI  
Thesis title: Pd-Catalyzed Ligand-Directed C-H and C=C Bond Functionalization
- B.S., Chemistry, *summa cum laude* 2003 - 2006  
**Northern Arizona University** - Flagstaff, AZ

## CURRENT POSITION

- Montana State University** - Bozeman, MT 2016 - present  
Assistant Professor of Chemistry

## PREVIOUS POSITIONS

- UCLA** - Los Angeles, CA 2013 - 2016  
Cram Teacher-Scholar  
Advisor: Professor Kendall N. Houk
- California Institute of Technology** - Pasadena, CA 2013  
Postdoctoral Scholar  
Advisor: Professor Rustem F. Ismagilov
- University of Michigan** - Ann Arbor, MI 2007 - 2012  
Graduate Student  
Advisor: Professor Melanie S. Sanford
- Northern Arizona University** - Flagstaff, AZ 2006 - 2007  
Graduate Student  
Advisors: Professors Clint F. Lane and Marin S. Robinson
- University of Pennsylvania** - Philadelphia, PA 2005  
Summer Undergraduate Researcher  
Advisor: Professor Gary A. Molander
- Northern Arizona University** - Flagstaff, AZ 2004 - 2006  
Undergraduate Researcher  
Advisor: Professor Clint F. Lane

## PUBLICATIONS

- (13) Neufeldt, S. R.; Jiménez-Osés, G.; Huckins, J. R.; Thiel, O. R.; Houk, K. N. Pyridine *N*-Oxide vs. Pyridine Substrates for Rh(III)-Catalyzed Oxidative C-H Bond Functionalization. *J. Am. Chem. Soc.* **2015**, *137*, 9843-9854.
- (12) Neufeldt, S. R.; Jiménez-Osés, G.; Comins, D. L.; Houk, K. N. A Twist on Facial Selectivity of Hydride Reductions of Cyclic Ketones: Twist-Boat Conformers in Cyclohexanone, Piperidone, and Tropinone Reactions. *J. Org. Chem.* **2014**, *79*, 11609-11618.
- (11) Seigerman, C. K.; Micyus, T. M.; Neufeldt, S. R.; Sanford, M. S. Palladium-Catalyzed C-H Arylation Using Aryltrifluoroborates in Conjunction with a Mn<sup>III</sup> Oxidant under Mild Conditions. *Tetrahedron* **2013**, *69*, 5580-5587.

- (10) Neufeldt, S. R.; Seigerman, C. K.; Sanford, M. S. Mild Palladium-Catalyzed C-H Alkylation Using Potassium Alkyltrifluoroborates in Combination with MnF<sub>3</sub>. *Org. Lett.* **2013**, *15*, 2302-2305.
- (9) Neufeldt, S. R.; Sanford, M. S. Asymmetric Chiral Ligand-Directed Alkene Dioxygenation. *Org. Lett.* **2013**, *15*, 46-49.
- (8) Neufeldt, S. R.; Sanford, M. S. Combining Transition Metal Catalysis with Radical Chemistry: Dramatic Acceleration of Palladium-Catalyzed C-H Arylation with Diaryliodonium Salts. *Adv. Synth. Catal.* **2012**, *354*, 3517-3522.
- (7) Neufeldt, S. R. Ammonium Peroxydisulfate (First Update, **2012**). *Encyclopedia of Reagents for Organic Synthesis [Online]*. John Wiley & Sons Ltd., DOI: 10.1002/047084289X.ra096.pub2.
- (6) Neufeldt, S. R.; Sanford, M. S. Controlling Site Selectivity in Palladium-Catalyzed C-H Bond Functionalization. *Acc. Chem. Res.* **2012**, *45*, 936-946.
- (5) Kalyani, D.; McMurtrey, K. B.; Neufeldt, S. R.; Sanford, M. S. Room-Temperature C-H Arylation: Merger of Pd-Catalyzed C-H Functionalization and Visible-Light Photocatalysis. *J. Am. Chem. Soc.* **2011**, *133*, 18566-18569.
- (4) Neufeldt, S. R. Palladium, bis(benzo[h]quinolin-10-yl-κC,κN)di-μ-chlorodi- (**2011**), *Encyclopedia of Reagents for Organic Synthesis [Online]*, John Wiley & Sons Ltd., DOI: 10.1002/047084289X.rn01397.
- (3) Neufeldt, S. R.; Sanford, M. S. *O*-Acetyl Oximes as Transformable Directing Groups for Pd-Catalyzed C-H Bond Functionalization. *Org. Lett.* **2010**, *12*, 532-535.
- (2) Grant, D. J.; Matus, M. H.; Anderson, K. D.; Camaioni, D. M.; Neufeldt, S. R.; Lane, C. F.; Dixon, D. A. Thermochemistry for the Dehydrogenation of Methyl-Substituted Ammonia Borane Compounds. *J. Phys. Chem. A* **2009**, *113*, 6121-6132.
- (1) Molander, G. A.; Sommers, E. M., Neufeldt, S. R. Palladium(0)-Catalyzed Synthesis of Chiral Ene-allenes Using Alkenyl Trifluoroborates. *J. Org. Chem.* **2006**, *71*, 1563-1568.

## AWARDS

Hanson-Dow Teaching Award (UCLA Department of Chemistry and Biochemistry)	2015
Dan Su Travel Award (ACS, Postdoc to Faculty Workshop)	2015
Non-Senate Faculty Professional Development Award (UCLA)	2015
Cram Teacher-Scholar Fellowship (UCLA)	2013
Chemistry Department Research Excellence Fellowship (Michigan)	2012
Poster/Oral Presentation Award, CaRLa Winter School (University of Heidelberg and BASF)	2012
Vaughan Symposium Oral Presentation Award (Michigan)	2011
University Regents Award, Department of Chemistry (Michigan)	2007
McAlister Outstanding Senior Award, Department of Chemistry and Biochemistry (NAU)	2006
Outstanding Senior Award, College of Engineering and Natural Sciences (NAU)	2006
Distinguished Scholar Award, Alumni Association (NAU)	2006
Vesto M. Slipher Award, Department of Chemistry and Biochemistry (NAU)	2005
Hooper Undergraduate Research Fellowship (NAU)	2004
Moissan Summer Undergraduate Research Fellowship, Fluorine Division of the American Chemical Society (NAU)	2004
Provost's Scholarship (NAU)	2003
National Merit Scholarship	2003

**INVITED PRESENTATIONS**

- Origin of the selectivity difference between pyridine *N*-oxide and pyridine substrates for Rh(III)-catalyzed C-H functionalization. *American Chemical Society Western Regional Meeting*, San Marcos, CA, November 2015.
- Mild Ligand-Directed Palladium-Catalyzed C-H Arylation and Alkylation. *UCLA, Department of Chemistry and Biochemistry*, Los Angeles, CA, May 2013.
- Ligand-Directed Palladium-Catalyzed C-H Functionalization. *Northern Arizona University, Department of Chemistry and Biochemistry*, Flagstaff, AZ, February 2013.

**SELECTED CONTRIBUTED PRESENTATIONS**

- Pyridine *N*-oxide vs. pyridine substrates for Rh(III)-catalyzed C-H bond functionalization. *American Chemical Society National Conference*, Boston, MA, August 2015 (oral presentation).
- Site Selectivity in a Rh(III)-Catalyzed C-H Functionalization: Pyridine *N*-Oxide vs. Pyridine Substrates. *National Organic Chemistry Symposium*, College Park, MD, July 2015 (poster presentation).
- DFT studies on Rh-catalyzed synthesis of naphthyridinone derivatives by C-H functionalization of pyridine *N*-oxide substrates. *American Chemical Society National Conference*, San Francisco, CA, August 2014 (oral presentation).
- Pd-Catalyzed C-H Arylation and Alkylation Using Radicals Generated under Mild Conditions. *CaRLa Winter School*, Heidelberg, Germany, March 2012 (poster talk and presentation).
- Palladium-Catalyzed Ligand-Directed Alkene Asymmetric Dioxygenation. *Gordon Research Conference, Organic Reactions and Processes*, Smithfield, RI, July 2011 (poster presentation).
- Selective Dioxygenation of Alkenes via Interception of Wacker Intermediates. *American Chemical Society National Conference*, Boston, MA, August 2010 (oral presentation).
- O-Acetyl Oximes as Transformable Directing Groups for C-H Activation/Functionalization. *National Organic Symposium*, Boulder, CO, June, 2009 (poster presentation)

**ACADEMIC SERVICE and PROFESSIONAL MEMBERSHIPS**

Alpha Chi Sigma Faculty Member, UCLA	2015 - 2016
Reviewer for ACS and RSC chemistry journals	2013 - present
American Chemical Society (member)	2006 - present