

Department of Chemistry
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PROFESSIONAL APPOINTMENTS

Assistant Professor	Department of Chemistry Iowa State University	2012-present Ames, IA
NIH (K99) Postdoctoral Fellow	Department of Chemistry (with John F. Hartwig and Huimin Zhao) University of Illinois at Urbana-Champaign	2011 Urbana, IL
NIH NRSA Postdoctoral Fellow	Department of Chemistry (with John F. Hartwig) University of Illinois at Urbana-Champaign	2007 - 2010 Urbana, IL

EDUCATION

Ph.D	<i>Organic Chemistry</i> North Dakota State University (with Mukund P. Sibi) <i>Dissertation: "Chiral Relay: A Promising Strategy in Enantioselective Catalysis."</i>	2007 Fargo, ND
B.A.	Chemistry Augustana College	2001 Sioux Falls, SD

AWARDS, HONORS AND FELLOWSHIPS

- **College of Liberal Arts and Sciences Award for Early Achievement in Research** **2016**
The College of Liberal Arts and Sciences Award for Early Achievement in Research recognizes faculty who have demonstrated outstanding accomplishments in research and/or artistic creativity unusually early in his or her professional career.
- **Cottrell Scholar Award** **2016**
The Cottrell Scholar Award develops outstanding teacher-scholars who are recognized by their scientific communities for the quality and innovation of their research programs and their academic leadership skills.
- **National Science Foundation (NSF) CAREER Award** **2014**
The Faculty Early Career Development (CAREER) Program is the NSF's most prestigious award. It supports the early career activities of those teacher-scholars who effectively integrate research and education within the context of the mission of their organization.
- **Thieme Chemistry Journal Award** **2014**
The Thieme Chemistry Journal Award is selected by the editorial boards of *Synlett*, *Synthesis*, and *Synfacts* to recognize promising young professors at the beginning of their career.
- **National Institutes of Health Pathway to Independence Award** **2011**
The purpose of the NIH Pathway to Independence Award (K99/R00) program is to increase and maintain a strong cohort of new and talented, NIH-supported, independent investigators. This program is designed to facilitate a timely transition of outstanding postdoctoral researchers from mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions, and to provide independent NIH research support during the transition that will help these individuals launch competitive, independent research careers.

- **National Institutes of Health Ruth L. Kirschstein National Research Service Award** **2008**
The purpose of the Kirschstein-NRSA postdoctoral fellowship is to enhance the research training of promising postdoctoral candidates who have the potential to become productive, independent investigators in scientific health-related research fields relevant to the missions of the participating NIH Institutes and Centers.
- **Abbott Scholars Symposium Award** **2007**
This award supports travel for outstanding graduate students receiving support from Abbott Laboratories to share their research results with each other and with scientists at Abbott during the biannual Abbott Scholars Symposium.
- **NDSU Graduate School Doctoral Dissertation Fellowship** **2006**
The NDSU Graduate School awards Doctoral Dissertation Fellowships to outstanding graduate students in their final year of graduate study. The fellowship provides a stipend and addition funding for academic travel.
- **North Dakota EPSCoR Doctoral Dissertation Assistantship** **2006**
The ND EPSCoR Doctoral Dissertation Assistantship provides stipend, research, and travel funds to outstanding graduate working in STEM fields in North Dakota.
- **Abbott Graduate Fellowship** **2005**
The Abbott Graduate Fellowship recognizes outstanding research by graduate students in departments receiving support from Abbott Laboratories.
- **NASA Space Grant Graduate Fellowship** **2005**
The North Dakota Space Grant Consortium awards this graduate fellowship for academic excellence in STEM fields.
- **Roy Milde Fellowship** **2003**
The Roy Milde Fellowship recognizes a graduate student for academic and research excellence in the Department of Chemistry at North Dakota State University.
- **Y. T. Johnson Scholarship** **2000**
This scholarship recognizes outstanding academic performance in a science major at Augustana College.
- **Presidential Scholarship** **1997**
This scholarship recognizes incoming students with >3.5 GPA and a minimum ACT score of 27.

PROFESSIONAL MEMBERSHIPS

- American Chemical Society 1995-present
- Division of Organic Chemistry, ACS 1995-present
- Division of Inorganic Chemistry, ACS 2008-present

PUBLICATIONS

31. Gao, M.; Cao, M.; Suastegui, M.; Walker, J. A.; Rodriguez-Quiroz, N.; Wu, Y.; Tribby, D.; Okerlund, A.; Stanley, L. M.; Shanks, J. V.; Shao, Z. "Innovating a Nonconventional Yeast Platform for Producing Shikimate as the Building Block of High-Value Aromatics" *ACS Synth. Biol.* **2016**, *Ahead of Print*. DOI: 10.1021/acssynbio.6b00132
30. Johnson, K. F.; Scanlon, J.; Ellern, A.; Stanley, L. M. "Rhodium-Catalyzed, Enantioselective Intramolecular Hydroacylation of Trisubstituted Olefines" *Chem. Eur. J.* **2016**, *Accepted Article*. DOI:10.1002/chem.201603880
29. Li, X.; Van Zeeland, R.; Maligal-Ganesh, R. V.; Pei, Y.; Power, G.; Stanley, L. M.; Huang, W. "Impact of Linker Engineering on the Catalytic Activity of Metal-Organic Frameworks Containing Pd(II)-Bipyridine Complexes" *ACS Catal.* **2016**, *6*, 6324-6328. DOI: 10.1021/acscatal.6b01753

28. Ghosh, A.; Bainbridge, D. T.; Stanley, L. M. "Enantioselective Model Synthesis and Progress toward the Putative Structure of Yuremamine" *J. Org. Chem.* **2016**, *81*, 7945-7951. DOI: 10.1021/acs.joc.6b01730
27. Ghosh, A.; Walker Jr., J. A.; Ellern, A.; Stanley, L. M. "Coupling Catalytic Alkene Hydroacylation and α -Arylation: Enantioselective Synthesis of Heterocyclic Ketones with α -Chiral Quaternary Stereocenters" *ACS Catal.* **2016**, *6*, 2673-2680. DOI: 10.1021/acscatal.6b00365.
26. Van Zeeland, R.; Li, X.; Huang, W.; Stanley, L. M. "MOF-253-Pd(OAc)₂: A Recyclable MOF for Transition-Metal Catalysis in Water" *RSC Adv.* **2016**, *6*, 56330-56334. DOI: 10.1039/C6RA12746K
25. Ghosh, A.; Johnson, K. F.; Vickerman, K. L.; Walker, J. A.; Stanley, L. M. "Recent Advances in Transition Metal-Catalysed Hydroacylation of Alkenes and Alkynes" *Org. Chem. Front.* **2016**, *3*, 639-644. DOI: 10.1039/C6QO00023A
24. Gerten, A. L.; Stanley, L. M. "Enantioselective Dearomative [3+2] Cycloadditions of Indoles with Azomethine Ylides Derived from Alanine Imino Esters" *Org. Chem. Front.* **2016**, *3*, 339-343. DOI: 10.1039/C5QO00346F
23. Johnson, K. F.; Schmidt, A. C.; Stanley, L. M. "Catalytic, Enantioselective Hydroacylation of *ortho*-Allylbenzaldehydes" *Org. Lett.* **2015**, *17*, 4654-4657. DOI: 10.1021/acs.orglett.5b02559.
22. Van Zeeland, R.; Stanley, L. M. "Palladium-Catalyzed Conjugate Addition of Arylboronic Acids to β,β -Disubstituted Enones in Aqueous Media: Formation of Bis-benzylic and *ortho*-Substituted Benzylic Quaternary Centers" *ACS Catal.* **2015**, *5*, 5203-5206. DOI: 10.1021/acscatal.5b01272
21. Du, X.-W.; Stanley, L. M. "Tandem Alkyne Hydroacylation and Oxo-Michael Addition: Diastereoselective Synthesis of 2,3-Disubstituted Chroman-4-ones and Fluorinated Derivatives" *Org. Lett.* **2015**, *17*, 3276-3279. DOI: 10.1021/acs.orglett.5b01447
20. Du, X.-W.; Ghosh, A.; Stanley, L. M. "Enantioselective Synthesis of Polycyclic Nitrogen Heterocycles by Rh-Catalyzed Alkene Hydroacylation: Constructing Six-Membered Rings in the Absence of Chelation Assistance" *Org. Lett.* **2014**, *16*, 4036-4039. DOI: 10.1021/ol501869s
19. Ghosh, A.; Stanley, L. M. "Enantioselective Hydroacylation of *N*-Vinylindole-2-carboxaldehydes" *Chem. Commun.* **2014**, *50*, 2765-2768. DOI: 10.1039/c4cc00210e
18. Gerten, A. L.; Slade, M. C.; Pugh, K. M.; Stanley, L. M. "Catalytic, Enantioselective 1,3-Dipolar Cycloadditions of Nitrile Imines with Methyleneindolinones" *Org. Biomol. Chem.* **2013**, *11*, 7834-7837. DOI: 10.1039/c3ob41815d
17. Johnson, K. F.; Van Zeeland, R.; Stanley, L. M. "Palladium-Catalyzed Synthesis of *N*-*tert*-Prenylindoles" *Org. Lett.* **2013**, *15*, 2798-2801. DOI: 10.1021/ol4011344

❖ *from postdoctoral studies*

16. Liao, X.; Stanley, L. M.; Hartwig, J. F. "Enantioselective Total Syntheses of (-)-Taiwaniaquinone H and (-)-Taiwaniaquinol B by Iridium-Catalyzed Borylation and Palladium-Catalyzed Asymmetric α -Arylation" *J. Am. Chem. Soc.* **2010**, *132*, 8918-8920.
15. Stanley, L. M.; Bai, C.; Ueda, M.; Hartwig, J. F. "Iridium-Catalyzed Kinetic Asymmetric Transformations of Racemic Allylic Benzoates" *J. Am. Chem. Soc.* **2010**, *132*, 8918-8920.
14. Stanley, L. M.; Hartwig, J. F. "Iridium-Catalyzed, Regio- and Enantioselective *N*-Allylation of Indoles" *Angew. Chem. Int. Ed.* **2009**, *48*, 7841-7844.
13. Pouy, M. J.; Stanley, L. M.; Hartwig, J. F. "Enantioselective, Iridium-Catalyzed Monoallylation of Ammonia" *J. Am. Chem. Soc.* **2009**, *131*, 11312-11313.
12. Stanley, L. M.; Hartwig, J. F. "Regio- and Enantioselective *N*-Allylations of Imidazole, Benzimidazole, and Purine Heterocycles Catalyzed by Single-Component Metallacyclic Iridium Complexes" *J. Am. Chem. Soc.* **2009**, *131*, 8971-8983.

❖ *from graduate studies*

11. Sibi, M. P.; Cruz, Jr., W.; Stanley, L. M. "Enantioselective Diels-Alder Cycloadditions with β -Substituted Pyrazolidinone Propiolimides" *Synlett* **2010**, 889-892.

10. Sibi, M. P.; Kawashima, K.; Stanley, L. M. "Diels-Alder Cycloaddition Strategy for Kinetic Resolution of Chiral Pyrazolidinones" *Org. Lett.* **2009**, *11*, 3894.
9. Sibi, M. P.; Coulomb, J.; Stanley, L. M. "Enantioselective Enolate Protonations: Friedel-Crafts Reactions with α -Substituted Acrylates" *Angew. Chem. Int. Ed.* **2008**, *47*, 9913-9915.
8. Sibi, M. P.; Nie, X.; Shackelford, J. P.; Stanley, L. M.; Bouret, F. "Exo- and Enantioselective Diels-Alder Reactions: Pyrazolidinone Auxiliaries as a Means to Enhanced Exo Selectivity" *Synlett* **2008**, 2655-2658.
7. Sibi, M. P.; Rane, D.; Stanley, L. M.; Soeta, T. "Copper(II)-Catalyzed Exo and Enantioselective Cycloadditions of Azomethine Imines" *Org. Lett.* **2008**, *10*, 2971-2974.
6. Sibi, M. P.; Stanley, L. M.; Soeta, T. "Enantioselective 1,3-Dipolar Cycloadditions of Diazoacetates with Electron-Deficient Olefins" *Org. Lett.* **2007**, *9*, 1553-1556.
5. Sibi, M. P.; Chen, J.; Stanley, L. "Enantioselective Diels-Alder Reactions. Effect of the Achiral Template on Reactivity and Selectivity" *Synlett* **2007**, 298-302.
4. Sibi, M. P.; Stanley, L. M.; Nie, X.; Venkatraman, L.; Liu, M.; Jasperse, C. P. "The Role of Achiral Pyrazolidinone Templates in Enantioselective Diels-Alder Reactions: Scope, Limitations, and Conformational Insights" *J. Am. Chem. Soc.* **2007**, *129*, 395-405.
3. Sibi, M. P.; Stanley, L. M.; Soeta, T. "Enantioselective 1,3-Dipolar Cycloaddition of Nitrile Imines to α -Substituted and α,β -Disubstituted α,β -Unsaturated Carbonyl Substrates: A Method for Synthesizing Dihydropyrazoles Bearing a Chiral Quaternary Center" *Adv. Synth. Catal.* **2006**, *348*, 2371-2375.
2. Sibi, M. P.; Stanley, L. M.; Jasperse, C. P. "An Entry to a Chiral Dihydropyrazole Scaffold: Enantioselective [3+2] Cycloaddition of Nitrile Imines" *J. Am. Chem. Soc.* **2005**, *127*, 8276-8277.
- For a highlight see: Burgess, K. *Chemistry and Industry* **2005**, 19 September 2005 - Issue No 18, 32.
- For a highlight see: *Letters in Organic Chemistry* **2006**, 3 78-81.
1. Sibi, M. P.; Stanley, L. M. "Enantioselective Diethylzinc Additions to Aldehydes Catalyzed by Chiral Relay Ligands" *Tetrahedron: Asymmetry* **2004**, *15*, 3353-3356.

MANUSCRIPTS IN SUBMISSION OR PREPARATION

1. Walker Jr., J.; Stanley, L. M. "Synthesis of Nitrogen Heterocycles by *N*-Heterocyclic Carbene-Catalyzed, Exo-Selective Alkene Hydroacylation" Submitted on 9/5/16 to *Org. Biomol. Chem.*
2. Gerten, A. L.; Stanley, L. M. "Palladium-Catalyzed Conjugate Addition of Arylboronic Acids to 2-Substituted Chromones in Aqueous Media" Submitted on 8/30/16 to *Tetrahedron Lett.*
3. Du, X.-W.; Stanley, L. M. "A Regioselective Alkyne Hydroacylation and Desilylation Sequence to Generate *exo*-Methylene Enones: A Platform for the Synthesis of Isoflavones" In preparation for *Chemical Science*.
4. Vickerman, K. L.; Stanley, L. M. "Catalytic, Enantioselective Synthesis of Polycyclic Heterocycles via Rh-Catalyzed Alkene Hydroacylation" In preparation for *Org. Lett.*

REVIEW ARTICLES

1. Hartwig, J. F.; Stanley, L. M. "Mechanistically Driven Development of Iridium Catalysts for Asymmetric Allylic Substitution" *Acc. Chem. Res.* **2010**, *43*, 1461-1475.
2. Stanley, L. M.; Sibi, M. P. "Enantioselective Copper-Catalyzed 1,3-Dipolar Cycloadditions" *Chem. Rev.* **2008**, *108*, 2887-2902.
3. Stanley, L. M.; Sibi, M. P. "5,5-Dimethyl-1-(phenylmethyl)-3-pyrazolidinone" *Encyclopedia of Reagents for Organic Synthesis (e-EROS)* **2006**.

BOOK CHAPTERS

1. Stanley, L. M.; Sibi, M. P. "Chiral Bisoxazoline Ligands" In *Privileged Chiral Ligands and Catalysts*; Zhou, Q.-L., Ed.; Wiley-VCH, Weinheim, Germany, 2011, pp. 171-220.

- Stanley, L. M.; Hartwig, J. F. "Copper-Catalyzed Allylic Substitution" In *Organotransition Metal Chemistry: From Bonding to Catalysis*; Hartwig, J. F., Ed.; University Science Books, Sausalito, CA, 2010, pp. 999-1008.
- Stanley, L. M.; Sibi, M. P. "Cu(I) and Cu(II) Lewis Acids" In *Acid Catalysis in Modern Organic Synthesis*; Yamamoto, H.; Ishihara, K., Eds.; Wiley-VCH, Weinheim, 2008, Vol. 2, pp. 903-985.

FEATURED IN SCIENTIFIC AND NONSCIENTIFIC MEDIA

- Research featured in LAS Link Magazine Spring 2014
- Research and education efforts highlighted in the Iowa State Daily Spring 2014
- Research and education efforts highlighted on the LAS homepage spring 2014

FUNDING

Current

- CAREER - Metal-Catalyzed Alkene Hydroacylation: Establishing a New Platform for the Synthesis and Functionalization of Heterocycles
PI: Levi M. Stanley
Agency: National Science Foundation
Type & Dates: CAREER: CHE-1352080, 03/15/14 – 03/14/19
Funding: \$600,000
- Catalyst Design and Development to Unlock the Synthetic Potential of Olefin Hydroacylation Reactions
PI: Levi M. Stanley
Agency: Research Corporation for the Advancement of Science
Type & Dates: Cottrell Scholar Award 03/15/16 – 03/14/19
Funding: \$100,000

Pending

- None currently pending.

Expired

- Directed Evolution of Metal-Substituted Carbonic Anhydrases
PI: Levi M. Stanley
Agency: National Institutes of Health – NIGMS
Type & Dates: R00 GM095697, 02/15/12-12/31/14 (no cost extension through 12/31/15)
Funding: \$717,000

LECTURES

Invited Lectures

2013

- "The Search for Next Generation Antimicrobials and Beyond" Department of Chemistry, University of Northern Iowa, Cedar Falls, IA, 10 October.
- "Catalysis as a Strategy to Generate Bioactive Nitrogen Heterocycles" Department of Chemistry, Ripon College, Ripon, WI, 8 November.

2014

- "Transition Metal-Catalyzed Olefin Hydroacylation: A Platform for Synthesis of Heterocyclic Ketones" Inorganic Division Organotransition Metal Chemistry: From Bonding to Catalysis Symposium. American Chemical Society 248th National Meeting, San Francisco, CA 13 August.

4. "Catalysis as a Strategy to Generate Bioactive Nitrogen Heterocycles" Department of Chemistry, Hamline University, St. Paul, MN, 19 September.
5. "Catalysis as a Strategy to Generate Bioactive Nitrogen Heterocycles" Department of Chemistry, St. Thomas University, St. Paul, MN, 10 October.
6. "Catalysis as a Strategy to Generate Bioactive Nitrogen Heterocycles" Department of Chemistry, University of Nebraska at Kearney, Kearney, NE, 17 October.
7. "Stereoselective Synthesis of Polycyclic Ketones by Olefin Hydroacylation" Department of Chemistry, University of Iowa, Iowa City, IA, 23 October.

2015

8. "Catalytic Olefin Hydroacylation: A Platform for Rapid Synthesis of Heterocyclic Compounds" Department of Chemistry, Morgan State University, Baltimore, MD, 22 October
9. "Palladium-Catalyzed Conjugate Addition of Arylboronic Acids to β,β -Disubstituted Enones in Water" Pacifichem, Honolulu, HI, December 2015.

2016

10. "Metal-Organic Frameworks for Sustainable Transition-Metal Catalysis" XXV International Materials Research Congress, Cancun, Mexico, 17 August

CONFERENCE PRESENTATIONS

From independent career

1. "Nitrogen Heterocycles by Catalytic, Enantioselective Hydroacylation" Heterocycles Gordon Research Conference, Newport, RI, June 2013. Poster Presentation
2. "Nitrogen Heterocycles by Catalytic, Enantioselective Hydroacylation" IUPAC International Symposium on Organometallic Chemistry Directed Toward Organic Synthesis (OMCOS 17), Fort Collins, CO, July 2013. Poster Presentation
3. "Alkene Hydroacylation as a Platform for Enantioselective Synthesis of Heterocyclic and Carbocyclic Ketones" Stereochemistry Gordon Research Conference, Newport, RI, July 2014. Poster Presentation
4. "Transition Metal-Catalyzed Olefin Hydroacylation: A Platform for Synthesis of Heterocyclic Ketones" Inorganic Division Organotransition Metal Chemistry: From Bonding to Catalysis Symposium. American Chemical Society 248th National Meeting, San Francisco, CA, August 2014. Oral Presentation
5. "Palladium-Catalyzed Conjugate Addition of Arylboronic Acids to β,β -Disubstituted Enones in Water" Pacifichem, Honolulu, HI, December 2015. Oral Presentation
6. "Enantioselective Synthesis and Functionalization of Nitrogen Heterocycles Through Catalytic Olefin Hydroacylation" Pacifichem, Honolulu, HI, December 2015. Poster Presentation
7. "Rhodium-Catalyzed, Enantioselective Intramolecular Hydroacylation of Trisubstituted Alkenes" Stereochemistry Gordon Research Conference, Newport, RI, July 2016. Poster Presentation
8. "Metal-Organic Frameworks for Sustainable Transition-Metal Catalysis" XXV International Materials Research Congress, Cancun, Mexico, 17 August. Oral Presentation

From graduate and postdoctoral work

1. "Enantioselective Diethylzinc Additions to Aldehydes Catalyzed by Chiral Ligands with Fluxional Groups" American Chemical Society National Meeting, Philadelphia, PA, August 2004. Poster Presentation
2. "Enantioselective 1,3-Dipolar Cycloaddition of Nitrile Imines: A Method for Generation of a Chiral Dihydropyrazole Scaffold" American Chemical Society National Meeting, Washington, DC, August 2005. Oral Presentation

3. "Application of Enantioselective Nitrile Imine Cycloadditions Toward the Synthesis of Manzacidin Alkaloids and Derivatives" American Chemical Society National Meeting, San Francisco, CA, September 2006. Oral Presentation
4. "Application and Utility of Pyrazolidinone Auxiliaries in Enantioselective Transformations" American Chemical Society National Meeting, Chicago, IL, March 2007. Oral Presentation
5. "Iridium-Catalyzed Regio- and Enantioselective N-Allylation of Purines and Imidazoles" Stereochemistry Gordon Research Conference, Newport, RI, May 2008. Poster Presentation.
6. "Iridium-Catalyzed Regio- and Enantioselective Allylation of Nitrogen-Containing Heterocycles" American Chemical Society National Meeting, Philadelphia, PA, August 2008. Oral Presentation.
7. "Friedel-Crafts Alkylation of α -Substituted Acrylates: Development of an Enantioselective Protonation Strategy" American Chemical Society National Meeting, Philadelphia, PA, August 2008. Oral Presentation.
8. "Iridium-Catalyzed Regio- and Enantioselective N-Allylation of Imidazoles, Purines, and Indoles" University of Illinois Allerton Research Conference, Monticello, IL, November 2008. Poster Presentation.
9. "Iridium-Catalyzed Enantioselective N-Allylation of Indoles" 41st National Organic Chemistry Symposium, Boulder, CO, June 2009. Poster Presentation.

TEACHING

SEMESTER	COURSE	TITLE	CR	# OF STUDENTS	Instructor Rating	Course Rating
Spring 2012	Chem 332 2	Organic Chemistry II	3	121	3.62	3.22
Fall 2012	Chem 631	Seminar in Organic Chemistry	1	57	--	--
Spring 2013	Chem 332 3	Organic Chemistry II	3	22	4.92	4.31
Spring 2013	Chem 334L	Laboratory in Organic Chemistry II	2	20	--	--
Spring 2013	Chem 631	Seminar in Organic Chemistry	1	56	--	--
Fall 2013	Chem 101	Chemistry Learning Community Orientation	1	46	--	--
Fall 2013	Chem 331L	Laboratory in Organic Chemistry I	1	404	--	--
Fall 2013	Chem 333L	Laboratory in Organic Chemistry I	2	31	--	--
Fall 2013	Chem 631	Seminar in Organic Chemistry	1	57	--	--
Fall 2013	Chem 632	Special Topics in Organic Chemistry	1	22	4.90	4.70
Spring 2014	Chem 101	Chemistry Learning Community Orientation	1	22	--	--
Spring 2014	Chem 332 3	Organic Chemistry II	3	49	4.76	4.55
Spring 2014	Chem 334L	Laboratory in Organic Chemistry II	2	27	--	--
Fall 2014	Chem 101	Chemistry Learning Community Orientation	1	41	--	--
Spring 2015	Chem 101	Chemistry Learning Community Orientation	1	29	--	--
Spring 2015	Chem 332 2	Organic Chemistry II	3	165	4.18	3.51
Spring 2015	Chem 332 3	Organic Chemistry II	3	42	4.75	4.65
Spring 2015	Chem 334L	Laboratory in Organic Chemistry II	2	21	--	--
Fall 2015	Chem 101	Chemistry Learning Community Orientation	1	35	--	--
Fall 2015	Chem 332	Organic Chemistry II	3	125	4.54	4.12
Fall 2015	Chem 332L	Laboratory in Organic Chemistry II	1	51	--	--
Spring 2016	Chem 101	Chemistry Learning Community Orientation	1	20	--	--
Spring 2016	Chem 332 3	Organic Chemistry II	3	56	4.83	4.37
Spring 2016	Chem 334L	Laboratory in Organic Chemistry II	2	25	--	--
Fall 2016	Chem 101	Chemistry Learning Community Orientation	1	41	--	--
Fall 2016	Chem 332	Organic Chemistry II	3	178		
The Department of Chemistry does not collect ratings for orientation and laboratory courses.						

Research Training

Postdoctoral Associates (2 total)

Name	Dates	Current Position, Title
Dr. Xiang-Wei Du	July 2012 – December 2014	Iowa State University, Postdoctoral Researcher
Dr. Michael Slade	June 2012 – May 2013	University of Evansville, Assistant Professor

Graduate Students (10 total)

Name	Dates	Degree
1. Brian Schumacher	November 2015 – present	
2. Tanner Metz	November 2014 – present	
3. Abhishek Kadam	November 2013 – present	
4. Kevin Vickerman	November 2013 – present	
5. James Walker	November 2012 – present	
6. Sagarika Weerasekara	November 2012 – December 2015	M.S., 2015
7. Anthony Gerten	January 2012 – present	Ph.D., 2016
8. Avipsa Ghosh	January 2012 – 2016	Ph.D., 2016
9. Kirsten Johnson	January 2012 – 2016	Ph.D., 2016
10. Ryan Van Zeeland	January 2012 – 2016	Ph.D., 2016

Undergraduate Students (8 total)

Name	Dates
1. Kassandra Wolff	Summer 2012 – Spring 2014
2. Kelsie Pugh	Fall 2012 – Fall 2013
3. Michael Stewart	Fall 2012 – Spring 2014
4. Adam Schmidt	Summer 2013 – Spring 2014
5. Christopher Situmeang	Fall 2013
6. Taylor Sklenar	Spring 2014 – Summer 2014
7. David Bainbridge	Fall 2014 – Spring 2015
8. Wang Zongheng	Spring 2015 – Spring 2016
9. Aaron Jacobson	Fall 2015 – Summer 2016
10. Joshua Evans	Spring 2016 – Summer 2016
11. Ethan Rietz	Spring 2016 – Summer 2016
12. David Moore	Spring 2016
13. Kristina Nugent	Spring 2016
14. Grace Lutovsky	Fall 2016 – present
15. Joseph Fisher	Fall 2016 – present

UNIVERSITY SERVICE

Department of Chemistry

- 2014-present Graduate Recruitment Committee
- 2013-present Faculty Mentor, Chemistry Learning Community
- 2014-2015 Safety Committee
- 2012-2014 Graduate Activities Committee
- 2012-2013 Faculty Search Committee
- 2012 Departmental Diversity Representative
- POS Committee Member (approximately 40 current students)

University Wide

- 2014-present ISU Graduate Council
- 2014-2015 Physics Faculty Search Committee

3. 2014-present ISU Postdoctoral Association Advisory Board
4. 2014 Volunteer, Ames Lab Middle School Science Bowl
5. 2014 Volunteer, Ames High School Science Showcase
6. 2014 Panelist, ISU Postdoctoral Association Panel on Future Faculty
7. 2012-present Member, HHMI Program on Innovation in STEM Education at ISU
8. 2012-2014 Member, Faculty Learning Community on Innovation in STEM Education
9. 2012-2014 Volunteer, Science Center of Iowa "Spooky Science" Event
10. 2012 ISU Representative at the China Scholarship Council Fairs (Beijing, Chengdu, Guanzhou)

PROFESSIONAL SERVICE

Professional Societies

1. 2014- Treasurer - Ames Local Section of the American Chemical Society (ACS)

Manuscript Review

- a. Organic Letters
- b. Organic and Biomolecular Chemistry
- c. Tetrahedron Letters
- d. Chemical Science
- e. ACS Catalysis
- f. European Journal of Organic Chemistry
- g. Synthesis
- h. Beilstein Journal of Organic Chemistry
- i. Journal of Heterocyclic Chemistry
- j. Journal of Organic Chemistry
- k. Chemical Reviews
- l. Journal of the American Chemical Society
- m. Chemistry – A European Journal
- n. RSC Advances
- o. Chemical Communications

Proposal Review

- a. National Science Foundation-CHE (8)
- b. ACS Petroleum Research Fund (3)

Review Panels

- a. National Science Foundation-CHE-CAREER (1)

