Curriculum Vitae

Tehshik Peter Yoon

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Professional Experience

Professor of Chemistry	2013-present
Associate Professor of Chemistry	2011–2013
Assistant Professor of Chemistry	2005–2011
University of Wisconsin-Madison	

University of California-Berkeley, Department of Chemistry (Berkeley, CA) 1998-1999

Lecturer: Organic chemistry

1994 Merck Research Laboratories (Rahway, NJ)

Summer intern/research assistant: Synthetic organic chemistry

Education and Training

2002-2005 Postdoctoral Fellow (NIH)

Harvard University, Cambridge, MA Advisor: Professor Eric N. Jacobsen

Ph.D., Chemistry

California Institute of Technology, Pasadena, CA 2000-2002 University of California, Berkeley, CA 1999-2000

Advisor: Professor David W. C. MacMillan

Thesis: The Acyl-Claisen Rearrangement. Development of a Novel Metal-Catalyzed Claisen Rearrangement and Enantioselective Variants of the Acyl-Claisen Rearrangement.

1996-1998 M.S., Chemistry

California Institute of Technology, Pasadena, CA

Advisor: Professor Erick M. Carreira

Thesis: Studies Towards the Total Synthesis of Welwitindolinone A Isonitrile.

A.B., Chemistry (summa cum laude)

1992-1996

Harvard University, Cambridge, MA Advisor: Prof. David. A. Evans

Awards and Honors

At the	University	of	Wiscon	nsin-A	Aadison
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TUM-IAS Honorary Hans Fischer Fellow	2015
ACS Teva Pharmaceuticals Scholar	2015–2018
Friedrich Wilhelm Bessel Award (Humboldt Foundation)	2015–2018
Novartis Chemistry Lectureship	2015–2016
UW-Madison Romnes Faculty Fellowship	2015
Honored Instructor Award from the University Residence Halls	8 times, 2008–2014
AAAS Fellow	2014
William H. Kiekhofer Distinguished Teaching Award	2013
Eli Lilly Grantee	2010
Camille Dreyfus Teacher-Scholar Award	2010
Amgen Young Investigator Award	2009
Alfred P. Sloan Research Fellowship	2009
Thieme Chemistry Journal Award	2009
Cottrell Scholar Award	2008
Beckman Young Investigator Award	2008
UW-Madison Research-Service Award	2007
NSF CAREER Award	2007
Eli Lilly New Faculty Award	2006

Awards prior to Wisconsin

• Ruth L. Kirschstein National Research Service Award Research Training Grant (NIH)	2002-2004
Herbert Newby McCoy Award, Chemistry Department Thesis Award	2002
Associated Students of the California Institute of Technology Teaching Award	2002
National Science Foundation Graduate Research Fellowship	1996-1998, 2001
Outstanding Graduate Student Instructor Award, University of California	2000
Achievement Rewards for College Scientists Fellowship	1999-2000
• Harvard Committee on Undergraduate Education Certificate of Distinction in Teachin	ng 1996
Merck Summer Undergraduate Research Scholarship	1995

Named, Plenary, and Student-Hosted Lectureships

Aug 31, 2015	Plenary Lecturer, Wissenschafts-Forum (WiFo) 2015	Dresden, Germany
May 1-2, 2015	Paquette Lecturer, Ohio State University	Columbus, OH
Mar 24, 2015	Massachusetts Institute of Technology, Student-hosted seminar	Cambridge, MA
Mar 14, 2013	Burkett Lecturer, Depauw University	Greencastle, IN
Jan 9, 2013	2012 IGER International Symposium on Transformative Synthesis	Nagoya, Japan
Oct 11, 2012	Keynote Speaker, Pfizer: Groton Green Chemistry Symposium	Groton, CT
Mar 5–6, 2011	Eli Lilly Grantee Symposium speaker	Indianapolis, IN
	(with Martin Burke, Tobias Ritter, Scott Snyder, Chris Vanderwal,	Armen Zakarian,
	Steve Buchwald, and David MacMillan)	
Feb 11, 2011	Chicago Organic Symposium speaker	Chicago, IL
	(with Christopher Douglas, Richard Taylor, Duncan Wardrop, and	John Wood)
May 17, 2010	Boehringer-Ingelheim Lecture, Harvard University	Cambridge, MA
May 4, 2010	Bristol-Myers Squibb Symposium speaker, UC-Berkeley	Berkeley, CA
Oct 8, 2009	Amgen Young Investigator Award Lecture	Thousand Oaks, CA
	(with Martin Burke, Chris Vanderwal, and Armen Zakarian)	
Apr 13, 2009	Organic Synthesis, Inc., Lecture, Boston University	Boston, MA

Publications

Independent Primary Publications (** indicates undergraduate co-author)

- 1. "Enantioselective Photocatalytic [3+2] Cycloadditions of Aryl Cyclopropyl Ketones," Amador, A. G.; Sherbrook, E. M.; Yoon, T. P. J. Am. Chem. Soc. **2016**, 138, 4722–4725.
- 2. "Spin-Selective Generation of Triplet Nitrenes: Olefin Aziridination via Visible Light Photosensitization of Azidoformates," Scholz, S. O.; Farney, E. P.; Kim, S. Y.;** Bates, D. M.; Yoon, T. P. Angew. Chem. Int. Ed. **2016**, 55, 2239–2242.
- 3. "Characterizing Chain Processes in Visible Light Photoredox Catalysis," Cismesia, M. A.; Yoon, T. P. Chem. Sci. **2015**, *6*, 5426–5434.
 - Highlighted by C. Stephenson in *Science*, **2015**, 349, 1285.
 - Highlighted by R. Massey in *Chemistry World*: http://www.rsc.org/chemistryworld/2015/07/photoredox-catalysis-chain-mechanism
- 4. "Enantioselective Conjugate Additions of α-Amino Radicals via Cooperative Photoredox and Lewis Acid Catalysis," Ruiz Espelt. L.; McPherson, I. S.; Wiensch, E. M.; Yoon, T. P. J. Am. Chem. Soc. 2015, 137, 2452–2455.
- 5. "An improved procedure for the preparation of Ru(bpz)₃(PF₆)₂ via a high-yielding synthesis of 2,2'-bipyrazine," Schultz, D. M.; Sawicki, J. W.; Yoon, T. P. Beilstein J. Org. Chem. **2015**, 11, 61–65.
- 6. "Photocatalytic Synthesis of Dihydrobenzofurans by Oxidative [3+2] Cycloaddition of Phenols," Blum, T. R.; Zhu, Y.; Nordeen, S. A.;** Yoon, T. P. Angew. Chem. Int. Ed. **2014**, 53, 11056–11059.
- 7. "[2+2] Cycloaddition of 1,3-Dienes by Visible Light Photocatalysis," Hurtley, A. E.; Lu, Z.; Yoon, T. P. Angew. Chem. Int. Ed. **2014**, 53, 8991–8994.
- 8. "Iron-Catalyzed Kinetic Resolution of N-Sulfonyl Oxaziridines," Williamson, K. S.; Sawicki, J. W.; Yoon, T. P. Chem. Sci. **2014**, *5*, 3524–3527.
- 9. "A Dual-Catalysis Approach to Enantioselective [2+2] Photocycloadditions Using Visible Light," Du, J.; Skubi, K. L.; Schultz, D. M.; Yoon, T. P. Science **2014**, 344, 392–396.
 - Highlighted by R. Neier in Science, **2014**, 344, 368–369.
 - Highlighted in C&E News, **2014**, 92(17), 6.
- 10. "[3+2] Photooxygenation of Aryl Cyclopropanes via Visible Light Photocatalysis," Lu, Z.; Parrish, J. D.; Yoon, T. P. *Tetrahedron* **2014**, *70*, 4270–4278.
 - Symposium-In-Print in honor of Sarah Reisman
- 11. "Redox Mediators in Visible Light Photocatalysis: Photocatalytic Radical Thiol-Ene Additions," Tyson, E. L; Niemeyer, Z. L.;** Yoon, T. P. J. Org. Chem. **2014**, 79, 1427–1436.
- 12. "Visible Light Sensitization of Vinyl Azides by Transition Metal Photocatalysis," Farney, E. P.; Yoon, T. P. Angew. Chem. Int. Ed. **2014**, *53*, 793–797.
 - VIP article
- 13. "Reductive Cyclizations of Nitroarenes to Hydroxamic Acids by Visible Light Photocatalysis," Cismesia, M. A.; Ischay, M. A.; Yoon, T. P. Synthesis **2013**, *45*, 2699–2705.
 - Special issue on Light in Chemical Synthesis.
- 14. "Brønsted Acid Co-catalysts in Photocatalytic Radical Addition of ✓-Amino C-H Bonds Across Michael Acceptors," Ruiz Espelt, L.; Wiensch, E. M.,** Yoon, T. P. J. Org. Chem. 2013, 78, 4107–4114.
 - One of the most accessed articles for April 2013.
- 15. "Transition Metal Photoredox Catalysis of Radical Thiol-Ene Reactions," Tyson, E. L.; Ament, M. S.;** Yoon, T. P. J. Org. Chem. **2013**, 78, 2046–2050.
 - Memorial issue in honor of Prof. Howard Zimmerman.
 - One of the 20 most accessed articles for December 2012.
- 16. "Visible Light Photocatalysis of [2+2] Styrene Cycloadditions via Energy Transfer," Lu, Z.; Yoon, T. P. Angew. Chem. Int. Ed. **2012**, *51*, 10329–10332.

- 17. "Iron Catalyzed Asymmetric Oxyamination of Olefins," Williamson, K. S.; Yoon, T. P. J. Am. Chem. Soc. **2012**, *134*, 12370–12373.
 - One of the 20 most accessed articles for August 2012.
 - Highlighted in Synform.
 - Highlighted in Synfacts 2012, 8, 1113.
- 18. "Crossed Intermolecular [2+2] Cycloaddition of Styrenes by Visible Light Photocatalysis," Ischay, M. A.; Ament, M. S.;** Yoon, T.P. Chem. Sci. **2012**, 3, 2807–2811.
 - Fifth most accessed article for June 2012.
- 19. "Visible Light Photocatalysis of Intramolecular Radical Cation Diels-Alder Cycloadditions," Lin, S.; Padilla, C. E.;** Ischay, M. A.; Yoon, T. P. *Tetrahedron Lett.* **2012**, *53*, 3073–3076.
- 20. "Photolysis, OH Reactivity and Ozone Reactivity of a Proxy for Isoprene-Derived Hydroperoxyenals," Wolfe, G. M.; Crounse, J. D.; Parrish, J. D.; St. Clair, J. M.; Beaver, M. R.; Paulot, F.; Yoon, T. P.; Wennberg, P. O.; Keutsch, F. N. *Phys. Chem. Chem. Phys.* **2012**, *14*, 7276–7286.
- 21. "Endoperoxide Synthesis by Photocatalytic Aerobic [2+2+2] Cycloadditions," Parrish, J. D.; Ischay, M. A.; Lu, Z.; Guo, S.; Peters, N. R.; Yoon, T. P. Org. Lett. **2012**, *14*, 1640–1643.
- 22. "Photocatalytic [2+2] Cycloadditions of Enones with Cleavable Redox Auxiliaries," Tyson, E. L.; Farney, E. P.; Yoon, T. P. Org. Lett. **2012**, *14*, 1110–1113.
 - Highlighted in Synfacts 2012, 524.
- 23. "Radical Cation Diels-Alder Cycloadditions by Visible Light Photocatalysis," Lin, S.; Ischay, M. A.; Fry, C. G.; Yoon, T. P. J. Am. Chem. Soc. **2011**, 133, 19350–19353.
 - One of the 20 most accessed articles for December 2011
 - Featured in IACS Select, May 2012.
- 24. "Photocatalytic Reductive Cyclizations of Enones: Divergent Reactivity of Photogenerated Radical and Radical Anion Intermediates," Du, J.; Ruiz Espelt, L.; Yoon, T. P. *Chemical Sci.* **2011**, 2, 2115–2119.
 - One of the 10 most accessed articles for August 2011
- 25. "Hydroxycarboxylic Acid-Derived Organosulfates: Synthesis, Stability, and Quantification in Ambient Aerosol," Olson, C. N.; Galloway, M. M.; Hedman, C. J.; Lockett, M. R.; Yoon, T. P.; Stone, E. A.; Smith, L. M.; Keutsch, F. N.* *Environ. Sci. Technol.* **2011**, *45*, 6468–6474.
- 26. "Visible Light Photocatalysis of Radical Anion Hetero-Diels-Alder Cycloadditions," Hurtley, A. E.; Cismesia, M. A.; Ischay, M. A.; Yoon, T. P. *Tetrahedron* **2011**, *67*, 4442–4448.
 - Symposium-In-Print in honor of Prof. Dean Toste
- 27. "[3+2] Cycloadditions of Aryl Cyclopropyl Ketones by Visible Light Photocatalysis," Lu, Z.; Shen, M.; Yoon, T. P. J. Am. Chem. Soc. **2011**, 133, 1162–1164.
- 28. "Oxaziridine-Mediated Oxyamination of Indoles: An Approach to 3-Aminoindoles and Enantioenriched 3-Aminopyrroloindolines." Benkovics, T.; Guzei, I.; Yoon, T. P. Angew. Chem. Int. Ed. 2010. 49, 9153–9157.
 - Selected as "Synfact of the Month," Synfacts 2011, 178.
- 29. "N-Nosyl Oxaziridines as Terminal Oxidants in Copper(II)-Catalyzed Olefin Oxyaminations." DePorter, S. M.;** Jacobsen, A. C.;** Partridge, K. M.; Williamson, K.S.; Yoon, T. P. Tetrahedron Lett. **2010**, *51*, 5223–5225.
 - Selected as Cover Article.
- 30. "[2+2] Cycloadditions by Oxidative Visible Light Photocatalysis." Ischay, M. A.; Lu, Z.; Yoon, T. P. J. Am. Chem. Soc. **2010**, 132, 8572–8574.
- 31. "Iron-Catalyzed Aminohydroxylation of Olefins." Williamson, K. S., Yoon, T. P. J. Am. Chem. Soc. **2010**, *1*32, 4570–4571.
 - Highlighted in ChemCatChem 2010, 2, 1381–1383.
 - Highlighted in Synfacts 2010, 809.
 - Highlighted online: http://www.organic-chemistry.org/Highlights/2011/14March.shtm

- 32. "Carbonyl Imines from Oxaziridines: Generation and Cycloaddition of N-O=C Dipoles," Partridge, K. M.; Guzei, I. A.; Yoon, T. P. Angew. Chem. Int. Ed. **2010**, 49, 930–934.
 - Highlighted online: http://www.organic-chemistry.org/Highlights/2011/14March.shtm
- 33. "Oxaziridine-Mediated Intramolecular Amination of sp³-Hybridized C-H bonds." Allen, C. P.; Benkovics, T.; Turek, A. K.;** Yoon, T. P. J. Am. Chem. Soc. **2009**, 131, 12560–12561.
 - Highlighted in Synfacts 2009, 1203.
- 34. "Crossed Intermolecular [2+2] Cycloadditions of Acyclic Enones: Synthesis of Unsymmetrical Cyclobutanes by Visible Light Photocatalysis" Du, J.; Yoon, T. P. J. Am. Chem. Soc. **2009**, 131, 14604–14605.
 - Selected as Cover Article.
 - Highlighted in Synfacts 2010, 79.
 - Highlighted online: http://www.organic-chemistry.org/abstracts/lit2/679.shtm
- 35. "Anionic Halocuprate(II) Complexes as Catalysts for the Oxaziridine-Mediated Aminohydroxylation of Olefins." Benkovics, T. B.; Du, J.; Yoon, T. P. J. Org. Chem. **2009**, 74, 5545–5552.
- 36. "Oxaziridine-Mediated Enantioselective Aminohydroxylation of Styrenes Catalyzed by Copper(II) Bis(oxazoline) Complexes." Michaelis, D. J.; Williamson, K. S.; Yoon, T. P. *Tetrahedron.* **2009**, *65*, 5118–5124.
 - Symposium-In-Print in honor of Prof. Michael Krische
- 37. "Efficient Visible Light Photocatalysis of [2+2] Enone Cycloadditions." Ischay, M. A.; Anzovino, M. B.; Du, J.; Yoon, T. P. J. Am. Chem. Soc. **2008**, 130, 12886–12887.
 - Highlighted in *C&E* News **2008**, 86(37), 35
 - Highlighted in Science 2008, 321, 1607
 - Highlighted in Synfacts 2009, 54
 - Highlighted online: http://www.organic-chemistry.org/abstracts/lit2/265.shtm
- 38. "Activation of N-Sulfonyl Oxaziridines Using Copper(II) Catalysts: Aminohydroxylations of Styrenes and I,3-Dienes." Michaelis, D. J.; Ischay, M. A.; Yoon, T. P. J. Am. Chem. Soc. **2008**, 130, 6610–6615.
- 39. "Cycloadditions of N-Sulfonyl Nitrones Generated by Lewis Acid-Catalyzed Rearrangement of Oxaziridines." Partridge, K. M.; Anzovino, M. E.; Yoon, T. P. J. Am. Chem. Soc. **2008**, 130, 2920–2921.
 - Highlighted in Synfacts 2008, 506
- 40. "Copper(II)-Catalyzed Aminohydroxylation of Olefins." Michaelis, D. J.; Shaffer, C. J.; Yoon, T. P. J. Am. Chem. Soc. **2007**, 129, 1866–1867.
 - 20th most-accessed online publication in JACS in the first quarter of 2007
 - Highlighted online: http://www.organic-chemistry.org/Highlights/2008/24March.shtm

Independent Reviews and Perspectives

- 41. "Dual Catalysis Strategies in Photochemical Synthesis," Skubi, K. L.; Blum, T. R.; Yoon, T. P. *Chem. Rev.* **2016**, *116*, in press.
- 42. "A Chiral Metal Photocatalyst Architecture for Highly Enantioselective Photoreactions," Amador, A. G.; Yoon, T. P. Angew. Chem. Int. Ed. **2016**, *55*, 2304–2306.
- 43. "Shape Control in Reactions with Light," Skubi, K. L.; Yoon, T. P. Nature 2014, 515, 45–46.
 - News and Views commentary.
- 44. "Opportunities in Photocatalytic Synthesis," Yoon, T. P.; Stephenson, C. R. J. Adv. Synth. Catal. **2014**, 356, 2739.
 - Guest editors' commentary for a special issue on photocatalysis.
- 45. "Advances in the Chemistry of Oxaziridines," Williamson, K. S.; Michaelis, D. J.; Yoon, T. P. Chem. Rev. **2014**, 114, 8016–8036.

- 46. "Solar Synthesis: Prospects in Visible Light Photocatalysis," Schultz, D. M.; Yoon, T. P. Science, **2014**, 343, 1239176.
- 47. "Visible Light Photocatalysis: The Development of Photocatalytic Radical Ion Cycloadditions," Yoon, T. P. ACS Catal. **2013**, 3, 895–902.
 - Cover article
 - Most accessed article for May 2013.
- 48. "3,3-Dimethyl-2-benzenesulfonyl oxaziridine," Williamson, K. S.; Yoon, T. P. Encyclopedia of Reagents for Organic Synthesis (Online), Wiley. DOI: 10.1002/047084289X.rn01584
- 49. "Accessing the Synthetic Chemistry of Radical Ions," Ischay, M. A.; Yoon, T. P. Eur. J. Org. Chem. **2012**, 3359–3372.
 - Most accessed article for June 2012.
 - 12th most accessed article for 2012.
- 50. "Visible Light Photocatalysis as a Greener Approach to Photochemical Synthesis." Yoon, T. P.; Ischay, M. A.; Du, J. *Nature Chem.* **2010**, *2*, 527–532.
- 51. "Can Reaction Mechanisms Be Proven? Reviewer Commentary." Yoon, T. P. J. Chem. Ed. **2009**, 86, 556.

Publications prior to Wisconsin

- 52. "Arene Carboxylate Esters." Yoon, T. P.; Jacobsen, E. N. In Science of Synthesis, Houben-Weyl Methods of Molecular Transformations, Panek, J. S., Ed. Georg Thieme Verlag: New York, **2006**, Chapter 20.5.14. pp 1285–1304.
- 53. "Arene Carboxylic Acids." Yoon, T. P.; Jacobsen, E. N. In Science of Synthesis, Houben-Weyl Methods of Molecular Transformations, Panek, J. S., Ed. Georg Thieme Verlag: New York, **2006**, Chapter 20.2.10, pp 533–549.
- 54. "Highly Enantioselective Thiourea-catalyzed Nitro-Mannich Reactions." Yoon, T. P.; Jacobsen, E. N. Angew. Chem. Int. Ed. **2005**, 44, 466–468.
 - 6th most cited paper in chemistry in 2005, according to Science Watch.
- 55. "Privileged Chiral Catalysts." Yoon, T. P.; Jacobsen, E. N. Science 2003, 299, 1691–1693.
- 56. "Enantioselective Claisen Rearrangements: Development of a First Generation Asymmetric Acyl-Claisen Reaction." Yoon, T. P.; MacMillan, D. W. C. J. Am. Chem. Soc. **2001**, 123, 2911–2912.
- 57. "Development of a New Lewis Acid Catalyzed Claisen Rearrangement." Yoon, T. P.; Dong, V. M.; MacMillan, D. W. C. J. Am. Chem. Soc. 1999, 121, 9726–9727.
- 58. "The Formation of (*Z*) Dialkylboron Enolates from Enolsilanes: Stereoconvergent Transmetallation and Diastereoselective Aldol Reactions." Duffy, J. L.; Yoon, T. P.; Evans, D. A. *Tetrahedron Lett.* **1995**, *36*, 9245–9248.

Presentations

(* = contributed) (selected future lectures in italics)

2017		
<u>2016</u> Jul 17-22	Organic Reactions and Processes GRC	Easton, MA
Jun 28	Biogen	Boston, MA
May 30-Jun 3	University of Muenster	Muenster, Germany
May 27	University of Zurich	Zurich, Switzerland
May 25	Novartis	Basel, Switzerland
Apr 27-28	Novartis	Shanghai, China
Apr 25 Mar 27-31	Novartis Organic Reactions Catalysis Society National Moeting	Singapore Miami, FL
Mar 23	Organic Reactions Catalysis Society National Meeting Macalester College	Minneapolis, MN
Mar 10-13	Kavli German-American Frontiers of Science Symposium	Potsdam, Germany
<u> 2015</u>		
Dec 15-20	Pacifichem	Honolulu, HI
Nov 9-13	International Kyoto Conference on New Aspects of Organ	
Oct I-2	ICIQ Symposium on Light-Driven Chemistry	Tarragona, Spain
Aug 30-Sep 2	Wissenschafts-Forum (WiFo 2015)	Dresden, Germany
Jul 15-18	7th Pacific Symposium on Radical Chemistry	Singapore
June 24	Max-Planck-Institut für Kohlenforschung Philipps-University Marburg	Mülheim am Ruhr, Germany Marburg, Germany
June 22 June 19	Ludwig-Maximilian-University Munich	Munich, Germany
June 10	University of Regensburg	Regensburg, Germany
June 8	Technical University of Munich	Munich, Germany
June 3-4	Science Days on Modern Photochemistry Fribou	urg and Neuchatel, Swizerland
May 7-10	Western Canadian Undergraduate Chemistry Conference	Kelowna, Canada
May 27-30	Central Regional ACS Meeting	Grand Rapids, MI
May 1-2 April 7	Ohio State University, Paquette Lectureship Novartis	Columbus, OH Boston, MA
Mar 23	ACS National Meeting	Denver, CO
Feb 26	Massachusetts Institute of Technology	Cambridge, MA
<u>2014</u> Nov 12	University of Montreal	Montreal, Canada
Oct 30	Merck Research Labs	Rahway, NJ
Oct 21	Bristol-Myers Squibb	New Brunswick, NJ
Sep 30-Oct I	Abbvie, Inc.	North Chicago, IL
Sep 12	New York University	New York, NY
Aug 12	ACS National Meeting—JOC/OL Symposium	San Francisco, CA
May 30	Zhejiang University	Hangzhou, China
May 27 May 23	Fudan University Nanyang Technological University	Shanghai, China Singapore
May 22	National University of Singapore	Singapore
May 8–9	Merck Research Labs	Rahway, NJ
May 6	McGill University	Montreal, Canada
May 2	Marquette University	Milwaukee, WI
Apr 23	Emory University	Atlanta, GA
Mar 25	University of Wisconsin-Madison, Department of Physics	Madison, WI

Jan 2–5	Inter-American Photochemical Society Winter Meeting	Sarasota, FL
2013		
Nov 8	Iowa State University	Ames, IA
Nov 7	University of Iowa	Iowa City, IA
Oct 10	University of Vermont	Burlington, VT
Sep 5	North Dakota State University	Fargo, ND
Aug 14	Freie Universität Berlin	Berlin, Germany
Aug 8–11	Transatlantic Frontiers of Chemistry Meeting	Kloster Seeon, Germany
Aug I	Abbvie Scholars Symposium	Abbott Park, IL
Jul 14–19	Gordon Conference–Photochemistry	Easton, MA
Jun 16–20	Pacific Symposium on Radical Chemistry	Vancouver, BC
May 6	Eastman Chemical Company	Kingsport, TN
Apr 7	ACS National Meeting—Photocatalysis Symposium	New Orleans, LA
Mar 14	DePauw University: Burkett Lectures	Greencastle, IN
Feb 18	AstraZeneca	Waltham, MA
Feb 8	Virginia Tech	Blacksburg, VA
Jan 24	Washington University St. Louis	St. Louis, MO
Jan 9	2012 IGER International Symposium on Transformative Synthes	
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<u> 2012</u>		
Nov 30	University of South Carolina	Columbia, SC
Oct 26	ACS MWRM: Midwest Award Symposium in honor of Jeff Aubé	Omaha, NB
Oct 11	Pfizer – Groton Green Chemistry Symposium	Groton, CT
Sep 27	University of Pittsburgh	Pittsburgh, PA
Aug 3	Johnson and Johnson	San Diego, CA
Jul 19	Technical University of Munich	Munich, Germany
Jul 18	Universität Regensburg	Regensburg, Germany
Jul 12	Gilead Sciences	Foster City, CA
Jun 15	Shanghai Institute of Organic Chemistry	Shanghai, China
Jun 13	Central China Normal University	Wuhan, China
Jun II	Beijing University	Beijing, China
Jun 7	Seoul National University	Seoul, South Korea
May 4	Georgia State University	Atlanta, GA
Apr 26	University of Minnesota	Minneapolis, MN
Apr 6	William and Mary	Williamsburg, VA
Apr 2	Indiana University	Bloomington, IL
Mar 5	Lilly Symposium	Indianapolis, IN
Feb 7	University of Houston	Houston, TX
Jan II	University of Ottawa	Ottawa, ON
<u>2011</u>	The second of	F 111 A.D.
Oct 24	University of Arkansas	Fayetteville, AR
Oct 7	University of Chicago	Chicago, IL
Aug 27	NSF Catalysis Workshop	Denver, CO
Aug 22	Dow Agroscience	Indianapolis, IN
Aug 19	Boehringer Ingelheim Pharmaceuticals	Ridgefield, CT
Aug 17	University of Toronto	Toronto, ON
Aug 12	Beckman Symposium	Irvine, CA
Jul 24	Gordon Research Conference—Natural Products	Smithfield, RI
Jun 20	Gordon Research Conference—High Throughput Chemistry	New London, NH

May 12 Apr 27 Mar 30 Mar 17 Feb 11 Jan 20 Jan 18	Dartmouth College University of West Virginia American Chemical Society National Meeting University of South Florida Chicago Organic Symposium Columbia University University of Wisconsin-Madison	Hanover, NH Morgantown, WV Anaheim, CA Tampa, FL Chicago, IL New York, NY Madison, WI
<u>2010</u> Dec 15*	Pacifichem 2010	Hanalulu Ul
Nov 12		Honolulu, HI
Oct 29	University of Miami Dreyfus Symposium	Coral Gables, FL New York, NY
Oct 8	University of Wisconsin–Oshkosh	Oshkosh, WI
Aug 27	University of North Carolina–Chapel Hill	Chapel Hill, NC
Aug 4*	Gordon Research Conference—Stereochemistry	Newport, RI
Jun 2	University of Washington	Seattle, WA
May 17	Harvard University (Boehringer-Ingelheim Lecture)	Cambridge, MA
May 10	Yale University	New Haven, CT
May 5	Stanford University	Palo Alto, CA
May 4	University of California-Berkeley (Bristol-Myers Squibb Symposium)	,
Apr 29	University of Utah	Salt Lake City, UT
Apr 26	University of Illinois, Urbana-Champaign	Urbana, IL
Apr 19	Colorado State University	Fort Collins, CO
Apr 16	Scripps Research Institute	La Jolla, CA
Apr 15	University of California-San Diego	San Diego, CA
Apr I2	Penn State	University Park, PA
Apr I	Cornell University	Ithaca, NY
Mar 26	University of Kansas	Lawrence, KS
Mar 23	Sloan-Kettering Institute	New York, NY
Mar 18	University of California–Los Angeles	Los Angeles, CA
<u>2009</u>		D 1 CA
Nov 5	California Institute of Technology	Pasadena, CA
Nov 4	University of California–Irvine	Irvine, CA
Oct 30	University of Texas–Austin	Austin, TX
Oct 27 Oct 20	University of Michigan	Ann Arbor, MI
Oct 20	University of Illinois-Chicago Amgen Young Investigators Award Symposium	Chicago, IL Thousand Oaks, CA
Oct 7	University of California–Santa Barbara	Santa Barbara, CA
Sep 30	Merck Research Labs	Rahway, NJ
Sep 29	Princeton University	Princeton, NJ
Sep 25	University of New Mexico	Albuquerque, NM
Sep 21	University of Pennsylvania	Philadelphia, PA
Aug 29	Beckman Young Investigators Symposium	Irvine, CA
Aug 17	American Chemical Society National Meeting	Washington, DC
Aug 12	Bristol-Myers Squibb	Wallingford, CT
July 28	Eli Lilly	Indianapolis, IN
July 23*	Gordon Research Conference—Organic Reactions and Processes	Smithfield, RI
July I I	Research Corporation—Cottrell Scholar Conference	Tucson, AZ
July 2	Gordon Research Conference—Heterocyclic compounds	Newport, RI
Apr 24	Gustavus Adolphus College	Saint Peter, MN

Apr 14 Apr 13 Apr 2 Mar 27	Boston College Boston University (Organic Synthesis, Inc. Lecture) Amgen SF Abbott Laboratories—Medicinal Chemistry	Chestnut Hill, MA Boston, MA South San Francisco, CA Abbott Park, IL
2008 Sep 26 Aug 30 Aug I Jul 21* Jun 18*	lowa State Beckman Young Investigators Symposium Transatlantic Frontiers of Chemistry Symposium Gordon Research Conference—Natural Products Gordon Research Conference—Heterocyclic compounds	Ames, IA Irvine, CA Cheshire, UK Tilton, NH Newport, RI
2007 Nov 14 Nov 13 Nov 13 Jun 27* Mar 25*	Bristol-Myers Squibb—Discovery Chemistry Princeton University—Organic Supergroup Lexicon Pharmaceuticals Gordon Research Conference—Heterocyclic compounds American Chemical Society National Meeting	Princeton/Hopewell, NJ Princeton, NJ Princeton, NJ Newport, RI Chicago, IL
2006 Aug 25 Jun 20* May 12	Abbott Laboratories Gordon Research Conference—Stereochemistry University of Maryland/NIH Mentoring Meeting	North Chicago, IL Newport, RI Greenbelt, MD
<u>2005</u> Sep 22	University of Wisconsin-Madison "Privileged Structures in Asymmetric Catalysis"	Madison, WI
Workshops an	d Outroach Procontations	
Mar 18, 2016	d Outreach Presentations UW-Madison Postdoc Series	Madison, WI
Aug 6-8, 2015 Mar 25, 2014	Academic Job Searech 101 Cottrell Scholars Collective New Faculty Workshop UW Chaos and Complexity Seminar series Managing Complexity on the Molecular Scale	Washington, DC Madison, WI
Sep 21, 2012	UW Postdoc Seminar Series	Madison, WI
Jun 25, 2012	Academic Job Search 101 NIH Mentoring Workshop (mentor)	Dallas, TX
Apr 19, 2012	UW-Madison Office of Admissions Panel	Madison, WI
Apr 11, 2012	Counselors Observing Wisconsin Schools (COWS) Tour UW-Madison Honors Program, "Wednesdays at Washburn" "Chemistry IS a Liberal Art"	Madison, WI
Feb 21, 2012	UW-Madison ACS Student Affiliates	Madison, WI
Jan 18, 2012	Tenure Workshop, UW-Madison Physical Sciences Division	Madison, WI
Aug 26, 2011	NSF Catalysis Workshop	Denver, CO
Jun 14, 2011	UW-Madison Delta Program Workshop	Madison, WI
-	Developing and Excellent Education Plan for your CAREER Proposal	
Apr 5, 2011	UW-Madison ACS Student Affiliates	Madison, WI
Sep 30, 2010	UW-Madison 2010 Diversity Forum: Plenary session	Madison, WI
	Collaborating Across Communities: Diversity Committees Advancing I	
Sep 28, 2010	UW-Madison Office of Admissions Panel	Madison, WI
	Counselors Observing Wisconsin Schools (COWS) Tour	

Jun 9, 2010	UW-Madison Delta Program Workshop	Madison, WI
	Developing an Excellent Education Plan for your CAREER Proposal	
Apr 22, 2010	UW-Madison Office of Admissions Panel	Madison, WI
	Counselors Observing Wisconsin Schools (COWS) Tour	
Jul 11, 2009	Research Corporation—Cottrell Scholar Conference	Tucson, AZ
	"Using Blogs in a Chemistry Laboratory Course"	
May 2, 2009	University of Wisconsin-Madison, Knapp House	Madison, WI
	"Chemistry IS a Liberal Art"	
Jun 28. 2008	NSF Workshop on Organic Synthesis and Natural Product Chemistry	Holderness, NH
May 5, 2008	UW-Madison ACS Student Affiliates	Madison, WI
	"Installing Functionality on Hydrocarbons: New Chemistry of Oxaziridines"	
Mar 2008	Recruiter, NOBCChE Annual Meeting	Philadelphia, PA
Apr 2007	Recruiter, NOBCChE Annual Meeting	Orlando, FL
Dec 3, 2006	UW-Madison Office of Admissions: Wisconsin Real	Madison, WI
	"Academic Opportunities at UW"	
Sep 11, 2006	American Chemical Society National Meeting – YCC Symposium	San Francisco, CA
	"Twists in the Road: What to do when your advisor changes jobs"	
May 2006	Wisconsin Idea Seminar	Wisconsin
May 12, 2006	University of Maryland/NIH Mentoring Meeting	Greenbelt, MD
Apr 2006	Recruiter, NOBCChE Annual Meeting	Los Angeles, CA

Professional Societies

American Chemical Society	1996-present
American Association for the Advancement of Science	2001-present
National Organization of Gay and Lesbian Scientists and Technical Professionals	2000-present
National Organization for the Professional Advancement of Black Chemists and	2007-present
Chemical Engineers	·
Inter-American Photochemical Society	2012-present

Service Activities

<u>Departmental</u>	
2013-present	Graduate Curriculum Committee, Chair
2013-present	Instrument Center NMR Committee
2014–2015	Faculty Search Committee, Chair
2014–2015	Schomaker Tenure and Promotion Committee, Chair
2011–2012	Faculty Mentoring Committee, Jennifer Schomaker
2012	Chemistry Department Chair Selection Committee
2011–2012	Mahanthappa Tenure Committee
2011–2012	Chemistry Department Faculty Search Committee
2010–2013	Chemistry Department Catalysis Center Steering Committee
2007–2010	UW-Madison NOBCChE Student Chapter, Faculty Advisor
2006–2010	Graduate Student Seminar Series (Chem 901), Chair
2005–2010, 2011–2013	Chemistry Department Diversity Committee
2006–2009	Chemistry Department Graduate Admissions Committee
2007–2008	Organic division graduate advising
2007–2008	Chemistry Department Childbirth Policy Committee (ad hoc)
2007–2008	Organic Lab Director Search Committee

2006–2007 2005–2007 2008 2006	Chemistry Department Graduate (Chemistry Departr Implementation of Organic Division Grad Implementation of Organic Student Seminar Pe	ment Safety Committee duate Recruiting Survey
University 2014–2015 2006–2009, 2011–present 2013–2015 2012–2015 2013–2014 2007–2010		sues, Chair, 2013–2014 ty, Steering Committee Fellowships Committee ulty Honors Committee
National/International May 2016—present May 2015—present June 2014—present May 2012—present June 2013 April 2013 Jun 2012 Aug 2011 June 2010 June 2009 Feb 2009 Apr 2008	ACS National Award Harvard Gender and Sexuality (Beilstein Journal of Organic Chen NIH SBCB Study Section Mo 245th ACS National Meeting: Photocatalysis NIH Mentorin NSF Catalysis Workshop (panelist, Holiscussion leader, Gordon Research Conference—Holiscus NIH ARRA Challenge Grant Research Study Section Mo	mistry, Associate Editor leeting (ad hoc panelist) s Symposium, organizer ng Workshop (mentor) lomogeneous Catalysis) Heterocyclic Chemistry eviewer (mail reviewer)
	Students Trained	
 Spencer O. Scholz (University of Vermont, 2011) Kazimer L. Skubi (Carleton College, 2011) Outstanding TA Award, 2013 lain S. McPherson (Virginia Military Institute, 2013) Evan M. Sherbrook (University of Vermont, 2013) Niecia E. Flikweert (Calvin College, 2015) Christopher S. Gravatt (Lake Superior State College, 2014) Byung Joo (BJ) Lee (University of Michigan, Dearborn, 2012) 		2011–present 2011–present 2011–present 2013–present 2013–present 2015–present 2015–present 2015–present
Current Undergraduate Student 1. Aaron Mallek (Senior, UW— • SULI Fellowship, 2015 2. Sangyun Kim (Senior, UW—N 3. Natalie Lenz (Senior, UW—N • Trerwartha Senior Thes 4. Kelsey Weber (Junior, UW—N	<u>s</u> Madison) Madison) Madison) is Grant, 2025	2014–present 2014–present 2014–present 2014–present

Current Postdoctoral Fellows I. Zach Miller (Ph.D., University of Michigan, John Wolfe) 2015-present Former Graduate Students (current position in italics) 1. Tamas Benkovics (Colorado State University, 2003) 2005-2010 • Ph.D. — currently Research Associate II at BMS Process Undergraduate Research Mentor Award, 2009 Outstanding Chemistry Teaching Assistant Award, 2009 Vilas Travel Grant, 2009 Organic Chemistry Excellence in Research Award, 2008 2005-2009 2. David J. Michaelis (Brigham Young University, 2005) • Ph.D. — currently Assistant Professor at Brigham Young University Postdoc with Barry Trost (Stanford) Reaxys PhD Prize, Finalist, 2010 NIH Chemistry-Biology Interface Training Fellowship, 2006–2009 Farrington Daniels Ethical Leadership Fellowship, 2009 Charles and Martha Casey Award for Excellence in Research, 2009 Undergraduate Research Mentor Award, 2009 ACS Division of Organic Chemistry Graduate Fellowship, 2008 Sigma-Aldrich Graduate Student Innovation Award. 2008 2005-2009 3. Katherine M. Partridge (Virginia Tech, 2004) Ph.D. — currently Discovery Chemist at Eli Lilly Postdoc with John Montgomery (Michigan) • Marie Christine Koeller Fellowship, 2008–2009 Abbott Fellowship in Synthetic Organic Chemistry, 2008 Goering Organic Chemistry Fellowship, 2008 ACS/Eli Lilly Women Chemists Committee Travel Award, 2008 4. Michael A. Ischay (Indiana University, 2006) 2006-2011 • Ph.D. — currently Process Chemist at Gilead • NIH Postdoc with Jon Ellman (Yale) Charles & Martha Casey Award for Excellence in Research, 2011 ACS DOC Graduate Research Symposium presenter, 2010 Goering Organic Fellowship, 2010 Honorable Mention, NSF Pre-doctoral Fellowship, 2007 5. Juana Du (University of California-Berkeley, 2007) 2007-2012 • Ph.D. — currently Research Associate at Gilead Process chemist at BMS Postdoc with John Hartwig (UC Berkeley) • ACS DOC Graduate Research Symposium, 2011 Goering Organic Fellowship, 2011 ACS Division of Organic Chemistry Graduate Student Fellowship, 2010 ACS/Eli Lilly Women Chemists Committee Travel Award, 2009 2007-2013 6. Kevin S. Williamson (University of Texas-Austin, 2007) Ph.D. — currently Research Scientist at Gilead Process Postdoc with Iim Leighton (Columbia) Hirschmann–Rich Organic Fellowship, 2012 Abbott Scholars Symposium, 2012

• 2013 Reaxys Prize finalist

 Final Post Control of Workship (Seattle University, 2008) Ph.D. — currently Postdoc with Champak Chaterjee (University of Workship) 	2008–2013 ashington)
First postdoc with PNNL8. Anna E. Hurtley (Northwestern University, 2008)	2008–2014
 Ph.D. — currently Postdoc with Scott Miller (Yale) 9. Laura A. Ruiz Espelt (Millersville University, 2009) Ph.D. — currently Research Scientist at Dow Chemical Dow BEST Symposium awardee, 2013 	2009–2014
 Goering Organic Chemistry Award, 2014 II. Elliot P. Farney (Northwestern University, 2009) Ph.D. — currently Postdoc with Sarah Reisman (Caltech) Goering Award, 2013 	2009–2015
 12. Shishi Lin (National University of Singapore, 2009) Ph.D. — currently Postdoc at Merck Research Laboratories Eastman Summer Research Award, 2012 	2009–2015
 13. Megan A. Cismesia (University of Illinois, Urbana-Champaign, 2010) Ph.D. — currently Postdoc with Melanie Sanford (Michigan) NSF Graduate Research Fellowship, 2012 	2010–2015
 14. Travis R. Blum (Hobart and William Smith Colleges, 2010) Ph.D. – currently Postdoc with David Liu (Harvard) CBI Fellowship, 2013 Outstanding TA Award, 2012 	2010–2016
 10. Shane D. Lies (University of Northern Iowa, 2014) M.S. — currently Analytical Chemist, PPG 	2014–2016
11. Craig T. Jones (Bradley University, 2014)	2014–2015 2012–2014
 12. James Sawicki (University of Illinois-Chicago, 2012) M.S. — currently Analytical Chemist, Abbvie 13. Jonathan D. Parrish (Hope College, 2009) 	2009–2011
 M.S. — currently at SAFC Pharma, Madison, WI 14. Derek M. Salter (Virginia Commonwealth University, 2010) 	2010–2011
 M.S. — currently at Promega, Madison, WI 15. Olga L. Dykhno (University of Texas-Austin, 2007) M.S. — currently at BASF, New York, NY 	2008–2010
16. Mary Beth Anzovino (Williams College, 2006)	2006–2008
 UW-Madison, graduate student (Moore) 17. Charles P. Allen (Kalamazoo College, 2004) 18. Alex Khrizman (University of the Sciences in Philadelphia, 2006) 19. Christopher J. Shaffer (University of Texas-Austin, 2005) Ph.D. (McMahon), UW-Madison 	2005–2008 2006–2007 2005–2007
Former Undergraduate Students (current position/location in italics) 1. Sarah Nordeen (MIT) • Hilldale Scholarship, 2013	Spring 2012–2014
 SCORE Fellowship 2013 Zachary L. Niemeyer (University of Utah) Eric Wiensch (University of Michigan) Hilldale Scholarship, 2012 ACS Organic Division Undergraduate Award, 2013 	Spring 2010–Summer 2013 Fall 2011–Summer 2013

4. Michael S. Ament (UW–Madison, Pharm Sci)	Spring 2010–Summer 2012
5. Matthew J. Livingston (M.S. University of Chicago)	Fall 2010—Spring 2012
6. Thomas J. Carey (University of Colorado, graduate student)	Fall 2010–Spring 2011
7. Christian E. Padilla (Princeton, graduate student)	
8. Jonathan T. Schellenberg	Fall 2009-Fall 2010
9. Justin S. F. Cherniak	Fall 2009
10. Cherry Tsai (UW-Madison, graduate student, Environmental Toxicology)	Fall 2009
11. Andrew Kohrs (PPD Inc)	Fall 2009
12. Sandra M. DePorter (Stanford University, Postdoc)	Fall 2007-Summer 2009
Ph.D. – Colorado State University	
Margaret McLean Bender Scholarship, 2008	
13. Amanda K. Turek (Yale University, Postdoc)	Fall 2006-Summer 2009
Ph.D. — Harvard University, Eric Jacobsen	
NSF Graduate Student Fellowship, 2010	
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lota Sigma Pi Undergraduate Award for Excellence in Chemistry, 2	:009
Ackerman Undergraduate Scholarship, 2008	
 National Starch Chemistry Foundation Scholarship, 2008 	
 Barry M. Goldwater Scholarship, Honorable Mention, 2008 	
 Wayland Noland Undergraduate Research Fellowship, 2007 	
 Hilldale Undergraduate Research Fellowship, 2007 	
14. Tyler VanDyck (Mayo Clinic, medical student)	Spring 2009
15. Candice Thompson (Howard University, 2011)	Summer 2008
16. Justin W. Woods (SAFC Pharmaceuticals, Madison, WI)	Spring 2007-Spring 2008
17. Ashley C. Jacobsen (Chicago, IL)	Summer 2006-Spring 2008
 ACS Divison of Organic Chemistry Sponsorted Travel Award, 200)7
18. Drew W. Dorshorst	Fall 2005-Spring 2007
19. Jeffrey T. Kokott (Rosalind Franklin University of Medicine, medical student	t) Fall 2005–Spring 2006
Former Postdoctoral Fellows	
1. Danielle Schultz (Ph.D., Wolfe, University of Michigan, 2012)	Fall 2012—Spring 2014
Research Associate, Merck Research Labs	
NIH Postdoctoral Fellow	
2. Zhan Lu (Ph.D., Ma, Zhejiang University, 2008)	Fall 2009-Fall 2012
Assistant Professor, Zhejiang University	
3. Ye Zhu, Ph.D. (Ph.D., Burgess, Texas A&M University)	Summer 2011
Scientist, Wildcat Discovery, San Diego CA	54 e. 25
4. Lawrence Tardibono (Ph.D., Miller, Notre Dame, 2010)	Fall 2010–Spring 2011
·	1 all 2010—5p1111g 2011
• Cooper and Dunham, LLP, patent agent E. Meihus Shan (Ph.D. Shanghai Institute of Organic Chemistry, 2005)	Eall 2009 Spring 2009
5. Meihua Shen (Ph.D., Shanghai Institute of Organic Chemistry, 2005)	Fall 2008–Spring 2009
• (hangshou I laivoreity liangeu (hina	
Changzhou University, Jiangsu, China	
Former Visiting Scholars	
	rgh) Fall 2014 Spring 2015