

Kendra Leahy Denlinger

Education

Ph.D. in Chemistry, University of Cincinnati, Cincinnati, OH April 2017
GPA: 3.86/4.00

B.S. (ACS certified) in Chemistry, University of Cincinnati, Cincinnati, OH 2012
Summa cum Laude, Departmental High Honors, Distinguished University Honors
Scholar, Phi Beta Kappa
GPA: 3.94/4.00

Current Position

Teaching Professor of Chemistry Start date: August 2019
Xavier University
Cincinnati, OH

Research Experience

Department of Chemistry, University of Cincinnati:

Prof. James Mack's Group January 2013-April 2017
Graduate Student Researcher. Used high-speed ball milling to perform greener syntheses (without harmful organic solvents). Demonstrated that polymer resins are an effective tool in performing chromatography-free separations as well as an easy way to recover and reuse polymer-bound catalysts.

Prof. Hairong Guan's Group 2011-2012
Undergraduate Researcher. Studied the binding characteristics of the thiocyanate anion to a pincer ligand. Used Hard-Soft Acid-Base Theory to predict these binding characteristics.

Department of Molecular and Cellular Physiology, University of Cincinnati:

Prof. A. John MacLennan's Group 2009-2011
Research assistant. Maintained a mouse colony, performed DNA extractions, and helped with microscope data analysis.

Other Positions and Employment

Adjunct Faculty, Department of Chemistry May 2018-August 2019
Xavier University
Cincinnati, OH

Adjunct Faculty, Department of Chemistry August 2018-May 2019
Thomas More University
Crestview Hills, KY

Adjunct Faculty, Department of Chemistry Northern Kentucky University Highland Heights, KY	January-May 2019
Temporary Faculty, Department of Chemistry Xavier University Cincinnati, OH	August 2017-May 2018
Intern, American Chemical Society Education Division, Green Chemistry Institute, and Office of Public Policy Washington, D.C.	August-October 2016
Supplemental Instruction Leader and Mentor Academic Excellence and Support Services University of Cincinnati	2010-2012
Customer Service Representative LaRosa's Call Center Cincinnati, Ohio	2011
Office Assistant Matthew P. Roth & Company, CPA.s Cheviot, Ohio	2009, 2010 seasonally
Retail Assistant Cappel's, Inc. Cheviot, Ohio	2007-2012, intermittently

Publications

Haley, Rebecca; Ringo, Jessica; Hopgood, Heather; **Denlinger, Kendra Leahy**; Das, Anushree; Waddell, Daniel. "Graduate student designed and delivered: An upper-level online course for undergraduates in green chemistry and sustainability." *Journal of Chemical Education*, **2018**, 95, 560–569.

Denlinger, Kendra Leahy; Ortiz-Trankina, Lianna; Carr, Preston; Benson, Kingsley; Waddell, Daniel C.; Mack, James. "Liquid assisted grinding and ion-pairing regulates percent conversion and diastereoselectivity for the Wittig reaction under mechanochemical conditions." *Beilstein Journal of Organic Chemistry*, **2018**, 14, 688-696.

Denlinger, Kendra Leahy. "ACS's *Hazard Assessment in Research Laboratories* website: An important safety culture tool." *Journal of Chemical Health and Safety*, **2018**, 25, 30-34.

Denlinger, Kendra Leahy; Mack, James. "Solvent- Free Synthesis." *Green Techniques for Organic Synthesis and Medicinal Chemistry*. 2nd ed. Zhang et. al. Wiley, **2018**.
doi:10.1002/9781119288152.ch13

Denlinger, Kendra Leahy. "Webinar Questions: Green Chemistry Techniques." *ACS Division of Chemical Health and Safety*. 19 May, 2017. <dchas.org/2017/05/19/webinar-questions-green-chemistry-techniques/>

Leahy, Kendra. "What Do Solvents Do, Anyway?" *The Nexus Blog*. 12 October, 2016.
<<https://communities.acs.org/community/science/sustainability/green-chemistry-nexus-blog/blog/2016/10/12/what-do-solvents-do-anyway>>

Li, Huizhen; Meng, Wenjuan ; Adhikary, Anubendu; Li, Shujun; Ma, Nana; Zhao, Qianyi; Yang, Qiuyu; Eberhardt, Nathan A.; **Leahy, Kendra M.**; Krause, Jeanette A; Chen, Xuenian; Guan, Hairong; Zhang, Jie. "Metathesis reactivity of bis(phosphinite) pincer ligated nickel chloride, isothiocyanate and azide complexes." *Journal of Organometallic Chemistry*. **2016**, *804*, 132-141.

Leahy, Kendra; Mack, Anthony; Mack, James. "An EcoScale comparison of mechanochemistry and solution based reactions." *Green Technologies for the Environment*. Obare et. al. ACS Symposium Series; American Chemical Society: Washington, DC, **2014**. 129-137. Print.

Lee, Nancy; Spearry, Rachel P.; **Leahy, Kendra M.**; Robitz, Rachel; Trinh, Dennis S.; Mason, Carter O.; Zurbrugg, Rebekah J.; Batt, Myra K.; Paul, Richard J.; MacLennan, A. John. "Muscle ciliary neurotrophic factor receptor alpha promotes axonal regeneration and functional recovery following peripheral nerve lesion." *Journal of Comparative Neurology*. **2013**, *521*(13), 2947-2965.

Courses Taught

Department of Chemistry, Xavier University:

Organic Chemistry 2, Physiological Chemistry Laboratory (4 sections), Organic Chemistry 1 Laboratory August-December 2019

Organic Chemistry 2 Lecture and Laboratory July-August 2019

Organic Chemistry 1, Organic Chemistry 2 January-May 2019

Organic Chemistry 1, Physiological Chemistry Laboratory (2 sections) August-December 2018

Organic Chemistry 2 June-August 2018

Organic Chemistry 1 Laboratory May-June 2018

Organic Chemistry 2 (2 sections) January-May 2018

Organic Chemistry 1 (2 sections), Physiological Chemistry Laboratory, Special Topics in Organic Chemistry August-December 2017

Northern Kentucky University:
Physiological Chemistry Laboratory (2 sections) January-May 2019

Thomas More University:
General Chemistry Laboratory 2 January-May 2019

General Chemistry Laboratory 1 (2 sections) August-December 2018

Department of Chemistry, University of Cincinnati:

Organic Chemistry 2 and General Chemistry 2 May-August 2016

Get Ready for Organic Chemistry Oct. 29-Dec. 3, 2015
Full instructor for a 5-week long course aimed at helping students prepare to re-take
Organic Chemistry

Additional Teaching Experience

College of Medicine, University of Cincinnati:

MCAT Course Instructor June 2015; February and June 2016
Taught review classes on organic chemistry as part of the comprehensive MCAT course

Department of Chemistry, University of Cincinnati:

Graduate Teaching Assistant Sept. 2012-Dec. 2015
Organic Chemistry 1 and 2

Taught recitation sections, graded quizzes and exams, wrote quizzes

Department of Chemistry, Xavier University

Substitute lecturer Sept. 2014-April 2015; March 14 and 16, 2016
Organic Chemistry 1 and 2
Medicinal Chemistry

Taught two different courses on several occasions as a substitute for a professor at Xavier University who was serving as my mentor, part of the Preparing Future Faculty program

Presentations

Oral Presentations

University of Cincinnati April 2017
*A graduate student perspective on the ACS online tool Hazard Assessment in the
Research Laboratory*
Kendra Leahy Denlinger

Keene State University (invited) March 2017
*A graduate student perspective on the ACS online tool Hazard Assessment in the
Research Laboratory*
Kendra Leahy Denlinger

Harvard University (invited) March 2017
A graduate student perspective on the ACS online tool Hazard Assessment in the Research Laboratory
Kendra Leahy Denlinger

Massachusetts Institute of Technology (invited) March 2017
A graduate student perspective on the ACS online tool Hazard Assessment in the Research Laboratory
Kendra Leahy Denlinger

National Meetings

23rd Green Chemistry and Engineering Conference/9th International Conference on Green & Sustainable Chemistry, Reston, VA June 13, 2019
Incorporating chemical safety into green chemistry graduate research and undergraduate curriculum
Kendra Leahy Denlinger

253rd National Meeting of the American Chemical Society, San Francisco Apr. 4, 2017
A graduate student perspective on the ACS online tool Hazard Assessment in the Research Laboratory
Kendra Leahy Denlinger

20th Green Chemistry and Engineering Conference, Portland, OR June 16, 2016
Minimizing waste in a mechanochemical Wittig reaction
Kendra Leahy, Kingsley Benson, Lianna Ortiz-Trankina, Clarence Pace, Preston Carr, and James Mack

19th Green Chemistry and Engineering Conference, Washington, D.C. July 16, 2015
Together at last: Functionalized polymer resins and high-speed ball milling
Kendra Leahy, Taylor Kleinieck, Preston Carr, and James Mack

248th National Meeting of the American Chemical Society, San Francisco Aug. 10, 2014
Recover and reuse: a polymer-bound catalyst under ball milling conditions
Kendra Leahy, Preston Carr, and James Mack

Regional Meetings

47th Central Regional Meeting of the American Chemical Society May 20, 2016
A mechanochemical TEMPO/Oxone system for the oxidation of primary alcohols
Kendra Leahy, Preston Carr, and James Mack

Poster Presentations

National Meetings

ACS Summer School on Green Chemistry and Sustainable Energy July 15-22, 2014
Denver, CO

Recover and reuse: a polymer-bound catalyst under ball milling conditions

Kendra Leahy, Preston Carr, and James Mack

18th Green Chemistry and Engineering Conference, Washington, D.C. June 16-19, 2014

Recover and reuse: a polymer-bound catalyst under ball milling conditions

Kendra Leahy, Preston Carr, and James Mack

Local and Regional Meetings

Graduate Poster Forum, University of Cincinnati March 6, 2015

Together at last: functionalized polymer resins and high speed ball milling

Kendra Leahy, Preston Carr, and James Mack

Great Lakes Green Chemistry Conference April 1-2, 2014

A polymer-bound catalyst in the high-speed ball mill

Kendra M. Leahy, Preston Carr, and James Mack

Graduate Poster Forum, University of Cincinnati February 28, 2014

Recover and reuse: a polymer-bound catalyst under ball milling conditions

Kendra M. Leahy, Preston Carr, and James Mack

Oesper Symposium, University of Cincinnati October 25, 2013

Polymer resins in the high-speed ball mill

Kendra M. Leahy and James Mack

University of Cincinnati Undergraduate Conference Spring, 2012

Structures and Reactivities of Pincer Complexes Bearing a Thiocyanate Ligand

Kendra M. Leahy, Anubendu Adhikary, Jeanette Krause, and Hariong Guan

Certification and Licensure

Preparing Future Faculty Certificate August 5, 2016

Professional Memberships

American Chemical Society (ACS) 2012-present

Association for Women in Science (AWIS) 2012-2018

Ohio Historical Society 2012-2015

Phi Beta Kappa 2012-present

Awarded a scholarship for a graduating senior science major

Professional Development Activities

Learning & Teaching @UC Conference	October 13, 2016
3-Minute Thesis competition, University of Cincinnati	February 26, 2016
American Chemical Society Leadership Development Institute, Dallas, TX <i>One of 15 recipients of an award to cover all travel expenses</i>	January 22-24, 2016
3T: Teaching, Techniques, and Technology Conference	April 11, 2015
Academy of Fellows for Teaching and Learning Showcase	January 28, 2015
Improvisation Training for Chemists <i>Led by members of the Alan Alda Center for Communicating Science</i>	Aug. 10, 2014
ACS Summer School on Green Chemistry and Sustainable Energy	July 15-22, 2014
Green Chemistry and Engineering student workshop	June 16, 2014
“Teach Me to Teach” pedagogical seminar	April 21, 2014

Honors and Awards

Presidential Medal of Graduate Student Excellence <i>Awarded to three graduating graduate students at the University of Cincinnati by the president of the university.</i>	April 2017
RITE Program award <i>Awarded \$4,500 to participate in an internship with the American Chemical Society in Washington, D.C.</i>	August 29, 2016-October 7, 2016
NSF Scholar Program <i>Awarded a \$1000 grant to attend the 18th Annual Green Chemistry and Engineering Conference in Washington, D.C.</i>	June 2014
Graduate Student Award for Advances in Chemical Lab Safety	2014
Henry Hochstetter Prize <i>For excellence as a graduate teaching assistant</i>	2014
Procter & Gamble Fellowship Awardee <i>Awarded to an incoming graduate student for outstanding accomplishments and future research potential</i>	2012-2013
Hypercube Scholar Award <i>Awarded to an outstanding senior showing great potential for success in graduate school</i>	2012

ACS Division of Inorganic Chemistry Award <i>Awarded to a senior chemistry major for excellence in inorganic chemistry and plans that include a career in chemistry</i>	2012
Mary Jane Mill Toepfer Scholarship (College of Arts and Sciences)	2011-2012
Greenholz Scholarship (College of Arts and Sciences)	2011-2012
Darl McDaniel Scholarship <i>Awarded to an outstanding freshman chemistry major with high potential</i>	2009-2012
Award for the Most Outstanding Student in First-Year Chemistry	2009
Cincinnati University Scholar	2008-2012

Service

American Chemical Society:

Associate, Committee on Chemical Safety January 2019-present

Auditor, Cincinnati Section of the American Chemical Society January 2019-present

Department, University of Cincinnati:

University of Cincinnati Chemistry Graduate Student Association (CGSA):

Chair: Service Committee May 2015-April 2016

Organized various service events throughout the school year, including mentoring for incoming first-year graduate students, a school supplies drive for National Chemistry Week, graduate recruitment weekend, and cleaning our graduate student lounge

Chair: Intramural Sports Committee June 2014-April 2015

Organized the department's first annual Olympic Day, where graduate students compete on teams (research groups) against each other during events such as the backwards race, obstacle course, balloon toss, etc. Also facilitated the creation of intramural sports teams for graduate students in our department.

Co-founder, Chemistry Education Committee January 2014

This committee eventually became an official part of the Chemistry Graduate Student Association (CGSA). The committee holds monthly meetings to discuss chemistry education through the reading of articles or the hosting of various speakers or webinars.

Treasurer May 2013-April 2014

University of Cincinnati:

2017 Distinguished STEMM Research Professor Selection Committee December 2016

Vice-President, Graduate Association for Teaching Enhancement (GATE) May 2015-April 2016

Campus Tour Guide: University of Cincinnati 2009-2012

Co-founder, president: Knit for the Needy, University of Cincinnati 2009-2011

Community:

President: Greater Cincinnati AWIS Sept. 2016-July 2018

Treasurer: Greater Cincinnati AWIS June 2014-August 2016
Organized a fundraiser at a brewery, several webinar showings, an outreach event at Cincinnati Museum Center and a science day with local Girl Scouts

Cincinnati Chapter of the American Chemical Society Oct. 20, 2015
National Chemistry Week public library demonstration

Lloyd High School Sept. 11, 2015
Led presentations for junior high and high school students about scientific inquiry

Association for Women in Science (AWIS) May, 2014
Volunteered at Flying Pig Marathon

Kiki Live 2.0 July 2014

Summer Institute workshop July 2014
Helped a group of 3 middle school students learn more about being chemists by leading several experiments related to polymers