



THE UNIVERSITY OF NORTH CAROLINA
AT WILMINGTON

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY
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Jeremy B. Morgan

PERSONAL

- Birth date: April 10, 1978 (Princeton, WV).

EDUCATION AND RESEARCH EXPERIENCE

- 8/2016 – present, Professor, The University of North Carolina at Wilmington.
- 8/2012 – 8/2016, Associate Professor, The University of North Carolina at Wilmington.
- 8/2007 – 8/2012, Assistant Professor, The University of North Carolina at Wilmington.
- 2/2005 – 7/2007, “Stereocontrolled Synthesis of Functionalized *cis*-Cyclopentapyrazolidines by 1,3-Dipolar Cycloaddition Reactions of Azomethine Imines: Application to the Synthesis of Massadine,” NIH Post-Doctoral Fellow and Overman Group Coordinator, The University of California at Irvine (Advisor: Larry E. Overman).
- 8/2000 – 12/2004, “Catalytic Methods for the Generation of Chiral Bis(boronates): The Utility of Saturated Carbon–Boron Bonds,” Ph. D., The University of North Carolina at Chapel Hill (Advisor: James P. Morken).
- 3/1999 – 8/2000, *Student research investigating the effect of stress on murine immunology*. National Institute for Occupational Safety and Health (NIOSH), Morgantown, West Virginia. (Advisor: Sally S. Tinkle).
- 9/1996 – 5/2000, B. S. Chemistry (*including work on the synthesis of Titanocene polymerization catalysts*), West Virginia University (Advisor: Jeffrey Petersen).

HONORS AND AWARDS

- Spring Undergraduate Research and Creativity Award (UNCW), \$5,000, **2016**.
- Outstanding Continuous Contribution to Compound Screening (Lilly OIDD), **2015**.
- Summer Curriculum Development Initiative (UNCW), \$3,000, **2015**.
- Summer Undergraduate Research and Creativity Award (UNCW), \$3,500, **2015**.
- Cahill Research Award (UNCW), \$3,000, **2015**.
- *Discere Aude* Award (UNCW), **2014**.
- UNCW Grant Writing Initiative Award, \$5400, **2013**.
- Cahill Research Award (UNCW), \$3,000, **2011**.
- Cahill Research Award (UNCW), \$3,000, **2009**.
- UNCW Summer Research Initiative, \$3,500, **2008**.
- Cahill Research Award (UNCW), \$3,000, **2008**.
- Ruth L. Kirschstein National Research Service Award (NIH #GM073312-01), \$88,044, **2005-2007**.

- Eli Lilly Graduate Fellow in Organic Chemistry, **2004**.
- Burroughs-Wellcome Fellow in Synthetic Chemistry, **2001**.
- Phi Beta Kappa, member since **2000**.
- Hypercube Scholar, **2000**.

PUBLICATIONS (Undergraduate Student)

1. M. Punk; C. Merkley; K. Kennedy; J. B. Morgan *ACS Catal.* **2016**, *6*, 4694–4698. “Palladium-Catalyzed, Enantioselective Heine Reaction.”
2. J. Kidd; K. Maiden; J. B. Morgan* *Tetrahedron* **2016**, *72*, 3802–3807. “Synthesis of β -Substituted Tryptamines by Regioselective Ring Opening of Aziridines.”
3. R. N. Mead; S. Barefoot; J. R. Helms; J. B. Morgan; R. J. Kieber *Environ. Toxicol. Chem.* **2014**, *33*, 2240–2245. “Photodegradation of the Antihistamine Cetirizine in Natural Waters.”
4. H. Rubin; J. Cockrell; J. B. Morgan *J. Org. Chem.* **2013**, *78*, 8865–8871. “Scalable Synthesis of *N*-Acy laziridines from *N*-Tosylaziridines.”
5. J. Cockrell; C. Wilhelmsen; H. Rubin; A. Martin; and J. B. Morgan *Angew. Chem., Int. Ed.* **2012**, *51*, 9842–9845. “Enantioselective Synthesis and Stereoselective Ring Opening of *N*-Acy laziridines.”
6. T. Dinio, A. P. Gorka, A. McGinniss, P. D. Roepe, and J. B. Morgan *Bioorg. Med. Chem.* **2012**, *20*, 3292–3297. “Investigating the Activity of Quinine Analogues versus Chloroquine Resistant *Plasmodium falciparum*.”
7. A. Martin, K. Casto, W. Morris, and J. B. Morgan *Org. Lett.* **2011**, *13*, 5444–5447. “Phosphine-Catalyzed Heine Reaction.”
8. T. A. Doroski, M. R. Cox, and J. B. Morgan *Tetrahedron Lett.* **2009**, *50*, 5162–5164. “Iodoetherification of Unactivated Alkenes Catalyzed by Diphosphine Palladium(II) Complexes.”
9. R. N. Mead, J. B. Morgan, G. B. Avery Jr., R. J. Kieber, A. M. Kirk, S. A. Skrabal, and J. D. Willey *Marine Chem.* **2009**, *166*, 13–17. “Occurrence of the Artificial Sweetener Sucralose in Coastal and Marine Waters of the United States.”
10. J. Gergely, J. B. Morgan, and L. E. Overman *J. Org. Chem.* **2006**, *71*, 9144–9152. “Stereocontrolled Synthesis of Functionalized *cis*-Cyclopentapyrazolidines by 1,3-Dipolar Cycloaddition Reactions of Azomethine Imines.”
11. S. Trudeau, J. B. Morgan, M. Shrestha, and J. P. Morken *J. Org. Chem.* **2005**, *70*, 9538–9544. “Rh-Catalyzed Enantioselective Diboration of Simple Alkenes: Reaction Development and Substrate Scope.”
12. J. B. Morgan, J. P. Morken *J. Am. Chem. Soc.* **2004**, *126*, 15338–15339. “Catalytic Enantioselective Hydrogenation of Vinyl Bis(boronates).”
13. S. P. Miller, J. B. Morgan, F. J. Nepveux, V, and J. P. Morken *Org. Lett.* **2004**, *6*, 131–133. “Catalytic Asymmetric Carbohydroxylation of Alkenes by a Tandem Diboration/Suzuki Cross-Coupling/Oxidation Reaction.”
14. J. B. Morgan, S. P. Miller, and J. P. Morken *J. Am. Chem. Soc.* **2003**, *125*, 8702–8703. “Rhodium-Catalyzed Enantioselective Diboration of Simple Alkenes.”
15. J. B. Morgan and J. P. Morken *Org. Lett.* **2003**, *5*, 2573–2575. “Platinum-Catalyzed Tandem Diboration/Asymmetric Allylboration: Access to Nonracemic Functionalized 1,3-Diols.”
16. M. S. Flint, J. B. Morgan, S. N. Shreve, and S. S. Tinkle *Stress* **2003**, *6*, 59–62. “Restraint Stress and Corticotropin Releasing Hormone Modulation of Murine Cutaneous POMC mRNA.”

PATENTS

- Morken, J. P.; Morgan, J. B.; Miller, S. P.; Pelz, N. F. “Preparation of Optically Active Alcohols by Catalyzed Enantioselective Transformations of Alkenes.” (WO2005012209), 2005.

GRANT ACTIVITY

- Academic Research Enhancement Award (AREA), NIH Morgan (PI) 04/01/15–03/31/18
“Enantioselective Synthesis of Nitrogen-Containing Small Molecules”
\$322,591, *Funded*
- UNCW Dept. of Chemistry Bridge Funds Morgan (PI) 12/01/12–3/31/15
\$10,000, *Funded*
- ACS Petroleum Research Fund, 50667-UNI1 Morgan (PI) 01/01/11–08/31/13
“Synthesis and Borate-Catalyzed Kinetic Resolution of Terminal Aziridines”
\$50,000, *Funded*
- UNCW Center for Marine Science Pilot Project Morgan (co-PI) 08/01/08–07/31/09
“The Occurrence and Fate of Synthetic Estrogens in Marine Waters”
\$34,364, *Funded*
- Cottrell College Science Award, Research Corporation Morgan (PI) 01/01/08–12/31/09
“Catalytic Enantioselective Coohalogenation of Unactivated Alkenes”
\$45,000, *Funded*
- Departmental Start-up Funds Morgan (PI) 08/01/07–12/31/12
\$50,000

PRESENTATIONS

- 251th ACS National Meeting — Seminar, Asymmetric Reactions and Syntheses, 3/13/2016.
- Gordon Research Conference on Organic Reactions and Processes — Poster Presentation, 7/21/2015.
- 246th ACS National Meeting — Seminar, Heterocycles and Aromatics, 9/10/2013.
- University of North Carolina, Wilmington — Departmental Seminar, 1/18/2013.
- NC Southeast Regional Meeting — Invited Seminar, 10/25/2012.
- 243rd ACS National Meeting — Seminar, New Reactions and Methodology, 3/25/2012.
- Gordon Research Conference on Heterocyclic Compounds — Poster Presentation, 6/29/2011.
- Gordon Research Conference on Organic Reactions and Processes — Poster Presentation, 7/22/2010.
- Gordon Research Conference on Heterocyclic Compounds — Poster Presentation, 7/1/2009.
- Gordon Research Conference on Stereochemistry — Poster Presentation, 7/29/2008.
- 40th National Organic Chemistry Symposium — Poster Presentation, 6/5/2007.
- 232nd ACS National Meeting — Student Seminar, New Reactions and Methodology, 9/12/2006.
- 228th ACS National Meeting — Student Seminar, Asymmetric Reactions and Syntheses, 8/23/2004.
- Gordon Research Conference on Stereochemistry — Poster Presentation, 6/22/2004.
- 38th National Organic Chemistry Symposium — Poster Presentation, 6/11/2003.
- 117th NC-ACS Sectional Conference — Student Seminar, BMO Session, 4/26/2003.
- 224th ACS National Meeting — Student Seminar, Asymmetric Reactions and Syntheses, 8/22/2002.

TEACHING EXPERIENCE

- 8/2016 – present, Advanced Organic Chemistry (CHM 516), UNCW.
- 8/2015 – present, Organometallics in the Pharmaceutical Industry (CHM 490), UNCW.
- 5/2014 – 8/2016, Graduate Comprehensive Literature Review (CHM 597), UNCW.
- 8/2012 – 12/2014, Graduate and External Seminar Program (CHM 595), UNCW.
- 1/2009 – 5/2015, Advanced Techniques in Organic Chemistry Lab (CHML 312), UNCW.
- 8/2007 – present, Organic Chemistry I (CHM 211), UNCW.
- 1/2008 – present, Organic Chemistry II (CHM 212), UNCW.
- 8/2007 – 1/2009, Organic Chemistry I Lab (CHML 211), UNCW.

- 1/2008 – present, Directed Individual Study (CHM 491), UNCW.
- 2/2005 – 7/2007, Overman Group Coordinator, UCI.
- 8/1998 – 12/2004, Personal Tutor, Organic and General Chemistry.
- 3/2003, Guest Lecturer, Special Topics in Chemistry: Asymmetric Catalysis, UNC-CH.
- 8/2000 – 5/2001, Teaching Assistant, General Chemistry Laboratory Instructor, UNC-CH.
- 8/1997 – 5/1998, Undergraduate Teaching Assistant, Honors Chemistry Laboratory, WVU.

UNIVERSITY SERVICE

- 8/2015 – present, Faculty Senate Research Committee.

DEPARTMENTAL SERVICE

- 8/2014 – present, Faculty Senate Representative.
- 8/2013 – present, Publicity and Recruiting Committee.
- 8/2010 – 8/2016, Organic Chemistry Lecture Coordinator.
- 8/2007 – present, Undergraduate Curriculum Committee Member.
- 8/2007 – 8/2013, Faculty Teaching Load Committee Member.

PROFESSIONAL SERVICE

- 1/2015 – present, Chair, ACS Eastern NC Section
- 4/2013 – 12/2014, Chair-elect, ACS Eastern NC Section
- Reviewer – *ACS Petroleum Research Fund*
- Reviewer – *Research Corporation*
- Reviewer – *National Science Foundation*
- Reviewer – *Journal of the American Chemical Society*
- Reviewer – *Angewandte Chemie*
- Reviewer – *Organic Letters*
- Reviewer – *ACS Catalysis*
- Reviewer – *Advanced Synthesis and Catalysis*
- Reviewer – *Bioorganic Medicinal Chemistry Letters*
- Reviewer – *Tetrahedron Letters*