



THE UNIVERSITY OF NORTH CAROLINA  
AT WILMINGTON

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY  
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## Jeremy B. Morgan

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### 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

- CAS Chancellor’s Teaching Excellence Award (UNCW), **2019**.
- Research Reassignment, Caltech, Pasadena, CA, **2018**.
- Summer Undergraduate Research and Creativity Award (UNCW), \$5,000, **2018**.
- Cahill Research Award (UNCW), \$5,000, **2018**.
- UNCW CAS Pilot Grant, \$3,500, **2017**.
- 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; Master's Student)**

1. C. I. Jette, I. Geibel, S. Bachman, M. Hayashi, S. Sakurai, H. Shimizu, J. B. Morgan, and B. M. Stoltz *Angew. Chem. Int. Ed.* **2019**, *58*, 4297–4301. “Palladium-Catalyzed Construction of Quaternary Stereocenters by Enantioselective Arylation of  $\gamma$ -Lactams with Aryl Chlorides and Bromides.”
2. **K. Scholl**, **J. Dillshaw**, **E. Timpy**, Y.-h. Lam, **L. DeRatt**, **T. R. Benton**, **J. P. Powell**, K. N. Houk, and J. B. Morgan *J. Org. Chem.* **2018**, *83*, 5756–5765. “Quinine-Promoted, Enantioselective Boron-Tethered Diels–Alder Reaction by Anomeric Control of Transition-State Conformation.”
3. **H. N. Rubin**, **K. Van Hecke**, **J. J. Mills**, **J. Cockrell**, and J. B. Morgan *Org. Lett.* **2017**, *19*, 4976–4979. “Enantiospecific Synthesis of  $\beta$ -Substituted Tryptamines.”
4. **M. Punk**, **C. Merkley**, **K. Kennedy**, and J. B. Morgan *ACS Catal.* **2016**, *6*, 4694–4698. “Palladium-Catalyzed, Enantioselective Heine Reaction.”
5. **J. Kidd**, **K. Maiden**, and J. B. Morgan *Tetrahedron* **2016**, *72*, 3802–3807. “Synthesis of  $\beta$ -Substituted Tryptamines by Regioselective Ring Opening of Aziridines.”
6. R. N. Mead, **S. Barefoot**, J. R. Helms, J. B. Morgan, and R. J. Kieber *Environ. Toxicol. Chem.* **2014**, *33*, 2240–2245. “Photodegradation of the Antihistamine Cetirizine in Natural Waters.”
7. **H. Rubin**, **J. Cockrell**, and J. B. Morgan *J. Org. Chem.* **2013**, *78*, 8865–8871. “Scalable Synthesis of *N*-Acylaziridines from *N*-Tosylaziridines.”
8. **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*-Acylaziridines.”
9. **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*.”
10. **A. Martin**, **K. Casto**, **W. Morris**, and J. B. Morgan *Org. Lett.* **2011**, *13*, 5444–5447. “Phosphine-Catalyzed Heine Reaction.”
11. **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.”
12. 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.”
13. 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.”
14. 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.”
15. J. B. Morgan, J. P. Morken *J. Am. Chem. Soc.* **2004**, *126*, 15338–15339. “Catalytic Enantioselective Hydrogenation of Vinyl Bis(boronates).”
16. 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.”

17. 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.”
18. 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.”
19. 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

- C. I. Jette, I. Geibel, S. Bachman, H. Shimizu, J. B. Morgan, S. Sakurai, and B. M. Stoltz “Compositions and Methods for Arylating or Vinylating Lactams.” U.S. Patent 62/792,811, Jan. 15, 2019.
- 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) 05/01/19–04/30/22  
“Enantioselective Synthesis of Nitrogen-Containing Small Molecules”  
\$360,250, *Funded*
- Academic Research Enhancement Award (AREA), NIH Morgan (PI) 04/01/15–03/31/19  
“Enantioselective Synthesis of Nitrogen-Containing Small Molecules”  
\$322,591, *Funded*
- Organic Syntheses Undergraduate Summer Research Award Morgan (PI) 05/01/17–08/31/17  
“Synthesis and Rearrangement of *N*-Acylazetidines”  
\$8,000, *Funded*
- UNCW Dept. of Chemistry Bridge Funds Morgan (PI) 12/01/12–3/31/15  
\$10,000, *Funded*
- ACS Petroleum Research Fund, 50667-UNII 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 Cooxygenation of Unactivated Alkenes”  
\$45,000, *Funded*
- Departmental Start-up Funds Morgan (PI) 08/01/07–12/31/12  
\$50,000

## PRESENTATIONS

- Southeast Regional Meeting of ACS — Seminar, Organic Division, 10/21/2019.
- East Carolina University — Invited Seminar, 3/15/2019.
- Southeast Regional Meeting of ACS — Seminar, Organic Division, 11/2/2018.
- Gordon Research Conference on Stereochemistry — Poster Presentation, 7/23/2018.
- Southeast Regional Meeting of ACS — Seminar, Organic Division, 11/10/2017.
- Coastal Carolina University — Invited Seminar, 10/26/2018.
- Gordon Research Conference on Natural Products — Poster Presentation, 8/2/2017.
- University of North Carolina, Greensboro — Invited Seminar, 10/14/2016.
- University of Tampa, Tampa, FL — Invited Seminar, 4/1/2016.
- 251<sup>th</sup> ACS National Meeting — Seminar, Asymmetric Reactions and Syntheses, 3/13/2016.

- Gordon Research Conference on Organic Reactions and Processes — Poster Presentation, 7/21/2015.
- Concord University, Athens, WV — Invited Seminar, 3/12/2015.
- 246<sup>th</sup> 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.
- 243<sup>rd</sup> 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.
- 40<sup>th</sup> National Organic Chemistry Symposium — Poster Presentation, 6/5/2007.
- 232<sup>nd</sup> ACS National Meeting — Student Seminar, New Reactions and Methodology, 9/12/2006.
- 228<sup>th</sup> ACS National Meeting — Student Seminar, Asymmetric Reactions and Syntheses, 8/23/2004.
- Gordon Research Conference on Stereochemistry — Poster Presentation, 6/22/2004.
- 38<sup>th</sup> National Organic Chemistry Symposium — Poster Presentation, 6/11/2003.
- 117<sup>th</sup> NC-ACS Sectional Conference — Student Seminar, BMO Session, 4/26/2003.
- 224<sup>th</sup> ACS National Meeting — Student Seminar, Asymmetric Reactions and Syntheses, 8/22/2002.

#### **TEACHING EXPERIENCE**

- 1/2019 – 5/2019, Senior Seminar (CHM 495), UNCW.
- 8/2016 – present, Advanced Organic Chemistry (CHM 516 + online), UNCW.
- 8/2015 – present, Organometallics in the Pharmaceutical Industry (CHM 490), UNCW.
- 5/2014 – 8/2016, Graduate Comprehensive Literature Review (CHM 597-online), UNCW.
- 8/2012 – present (various semesters), Graduate and External Seminar Program (CHM 595), UNCW.
- 1/2009 – 5/2015, Advanced Techniques in Organic Chemistry Lab (CHML 312), UNCW.
- 8/2007 – 8/2016, 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 – 5/2019, Faculty Senate Research Committee.
- 9/2016 – 5/2017, F&A Review Committee.

#### **DEPARTMENTAL SERVICE**

- 3/2019 – present, Workload Committee.
- 8/2018 – present, Website Committee (chair).
- 8/2017 – present, Graduate Committee.
- 8/2007 – present, Undergraduate Curriculum Committee.
- 8/2018 – 5/2019, Evaluation Committee.

- 11/2017 – 2/2018, Hiring Committee-Pharmaceutical Chemistry Faculty.
- 4/2017 – 8/2018, Vision and Planning Committee.
- 1/2017 – 4/2017, Hiring Committee-NMR/MS Director.
- 8/2014 – 12/2016, Faculty Senate Representative.
- 8/2013 – 8/2017, Publicity and Recruiting Committee.
- 4/2014 – 8/2014, Hiring Committee-NMR/MS Director.
- 1/2013 – 5/2013, Hiring Committee-NMR/MS Director.
- 10/2011 – 2/2012, Hiring Committee-Organic Faculty.
- 8/2010 – 8/2016, Organic Chemistry Lecture Coordinator.
- 10/2010 – 2/2011, Hiring Committee Biochemistry Faculty.
- 8/2007 – 8/2017, Undergraduate Curriculum Committee Member.
- 8/2007 – 8/2013, Faculty Teaching Load Committee Member.

### **PROFESSIONAL SERVICE**

- 1/2015 – 12/2016, 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 – *Chemical Science*
- Reviewer – *Organic Letters*
- Reviewer – *ACS Catalysis*
- Reviewer – *Journal of Organic Chemistry*
- Reviewer – *Advanced Synthesis and Catalysis*
- Reviewer – *Bioorganic Medicinal Chemistry Letters*
- Reviewer – *Tetrahedron Letters*
- Reviewer – *Tetrahedron*
- Reviewer – *Synthesis*
- Reviewer – *European Journal of Medicinal Chemistry*
- Reviewer – *Journal of Chemical Education*