

D. Brandon Magers

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EDUCATION

- **University of Georgia**, Athens, GA – August 2009 to May 2014
Ph.D., Computational Chemistry
 - Ph.D. Advisory Committee: Prof. Wesley D. Allen (Advisor and Chair), Prof. Henry F. Schaefer III, and Prof. Gary E. Douberly
 - **Mississippi College**, Clinton, MS – August 2005 to May 2009
B.S., Chemistry, ACS Certified
 - Graduated *magna cum laude* with Honors
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EXPERIENCE – Teaching and Research

- **Taylor University**, Upland, IN – August 2014 to present
 - Assistant Professor of Chemistry, Department of Chemistry and Biochemistry
- **University of Georgia Department of Chemistry**, Athens, GA – Fall 2009, Spring 2010, and Fall 2013
 - T.A. for General Chemistry Labs I and II
 - Tutored in the Chemistry Learning Center
 - Substitute Lecturer for Chem 1212 (General Chemistry II) and Chem 3212 (Modern Physical Chemistry II)
- **Argonne National Laboratory**, Lemont, IL – Fall 2011, Fall 2012
 - Visiting Scholar under Dr. Stephen J. Klippenstein
- Website Administrator for the Center for Computational Quantum Chemistry – 2012 to present
 - <http://www.ccqc.uga.edu>
- **Center for Computational Quantum Chemistry, UGA** – 2010, 2011, 2012, and 2013
 - Lecturer for the CCQC Summer Undergraduate Fellowship Program
 - Topics: Hartree-Fock theory, basis sets, thermochemistry, extrapolation techniques, Python scripting, and Configuration Interaction theory
- Research Group of Prof. Wesley D. Allen – 2011, 2013 to Present
 - Undergraduate Student Research Mentor
- **Jackson State University**, Jackson, MS – Summer 2009
 - Researcher and student mentor under Prof. Glake Hill
- **University of Southern Mississippi School of Polymers and High Performance Materials**, Hattiesburg, MS – Summer 2008
 - NSF REU program in the research group of Prof. Sergei I. Nazarenko
- **Computational Chemistry Group, Mississippi College** – 2005 to 2009
 - Undergraduate Student Researcher under the direction of Prof. David. H. Magers
- Private Tutoring – 2004 to Present

- Private tutor for nearly 20 high school and undergraduate students in chemistry, physics, and mathematics
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PUBLICATIONS

3. "Dipole Moment of the HOOO Radical: Resolution of a Structural Enigma", T. Liang, **D. B. Magers**, P. L. Raston, W. D. Allen, and G. E. Douberly, *J. Chem. Phys. Lett.*, **4**, 3584 (2013).
2. "Free Cyclooctatetraene Dianion: Planarity, Aromaticity, and Theoretical Challenges", A. Y. Sokolov, **D. B. Magers**, J. I. Wu, W. D. Allen, P. v. R. Schleyer, and H. F. Schaefer, *J. Chem. Theory Comput.*, **9**, 4436 (2013).
1. "Additive Properties of Conventional Strain Energies in Small Bicyclic Alkenes", **D. B. Magers**, Senior Honors Thesis, Mississippi College (2009).

PUBLICATIONS IN PREPARATION

- "Reaction profiles for radical-radical hydrogen abstraction via multireference coupled cluster theory", C.-H. Wu, **D. B. Magers**, L. B. Harding, S. J. Klippenstein, W. D. Allen
- "Investigation of 1-(1-diamantyl) diamantane: Stabilizing Long Alkane Bonds Through Intramolecular Dispersion", **D. B. Magers**, A. E. Vaughn, J. M. Turney, W. D. Allen
- "Theoretical Anomalous Imaginary Frequencies in Cyclic and Linear Molecules", **D. B. Magers**, Z. Schneiderman, W. D. Allen
- "Are Conventional Strain Energies in Bicyclic and Spiro Hydrocarbons Additive?", **D. B. Magers**, A. K. Magers, D. H. Magers

PRESENTATIONS GIVEN AT PROFESSIONAL CONFERENCES

- 57th Southeast / 61st Southwest Joint Regional Meetings of the ACS (Memphis, TN) – 2005
- 14th Conference on Current Trends in Computational Chemistry (Jackson, MS) – 2005
- 38th Annual Southeast Regional ACS Undergraduate Research Conference (Atlanta, GA) – 2006
- 231st National Meeting of the ACS (Atlanta, GA) – 2006
- 3rd Annual Tougaloo College - Mississippi College Undergraduate Research Symposium (Jackson, MS) – 2006
- 15th Conference on Current Trends in Computational Chemistry (Jackson, MS) – 2006
- 27th Annual University of Memphis Undergraduate Chemistry Research Conference (Memphis, TN) – 2007
- 4th Annual Mississippi College - Tougaloo College Undergraduate Research Symposium (Clinton, MS) – 2007
- 16th Conference on Current Trends in Computational Chemistry (Jackson, MS) – 2007
- 28th Annual University Of Memphis Undergraduate Chemistry Research Conference (Memphis, TN) – 2008

- 40th Annual Southeastern Undergraduate Research Conference of the ACS (Clinton, MS) – 2008
- 235th National Meeting of the ACS (New Orleans, LA) – 2008
- 5th Annual Tougaloo College - Mississippi College Undergraduate Research Symposium (Jackson, MS) – 2008
- 17th Conference on Current Trends in Computational Chemistry (Jackson, MS) – 2008
- 60th Southeastern Regional Meeting of the ACS (Nashville, TN) – 2008
- 6th Annual Mississippi College - Tougaloo College Undergraduate Research Symposium (Clinton, MS) – 2009
- 41st Annual Southeastern Undergraduate Research Conference of the ACS (Birmingham, AL) – 2009
- Southeast Theoretical Chemistry Association Annual Meeting (Columbia, SC) – 2010
- Southeast Theoretical Chemistry Association Annual Meeting (Starkville, MS) – 2011
- Southeast Theoretical Chemistry Association Annual Meeting (Auburn, AL) – 2013
- University of Georgia Department of Chemistry Research Retreat (Athens, GA) – 2013
- 5th Annual Graduate Students and Postdocs in Science Research Day (Athens, GA) – 2013

AWARDS

- Outstanding Graduate Teaching Assistant Award, University of Georgia – 2009/2010 academic year
- Outstanding Graduate Teaching Assistant Award, University of Georgia – 2013/2014 academic year

SKILLS

- **Programming/Scripting/Markup Languages:** Python, C++, Mathematica, LaTeX, CSS, HTML, PHP, and MySQL
- **Operating Systems:** Linux (SuSE, Ubuntu) and Windows
- **Computational Applications:** PSI4, Molpro, QChem, CFOUR, and Gaussian

COLLABORATIONS

- Wesley D. Allen, CCQC, UGA
- Henry F. Schaefer III, CCQC, UGA
- Gary E. Douberly, UGA
- Justin M. Turney, CCQC, UGA
- Stephen J. Klippenstein, ANL
- Lawrence B. Harding, ANL
- David H. Magers, Mississippi College

SERVICE AND ORGANIZATIONAL INVOLVEMENT

- American Chemical Society (ACS) – 2008 to Present
- Chemistry Graduate Student Association – 2009 to Present
- Fellowship of Christian Grads – 2010 to Present
- Science Fair Judge
 - Clarke County School District Science Fair, Senior Division – 2012, 2013
 - Georgia Science and Engineering Fair, Senior Division – 2011, 2012, 2013
- Mississippi College – 2005 to 2009
 - ACS local chapter
 - Student Government Association
 - Civitan Men’s Service Club
 - Inter Service Executive Council
 - Homecoming Committee
 - Mathematics Association of America
 - Pi Mu Epsilon
 - Mortar Board
 - Omicron Delta Kappa
 - Freshmen Experience Mentor
 - Welcome Week Leader
 - Orientation Leader