

Matthew Greenberg

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Columbia University
Havemeyer Hall, MC 3169
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I. Education

Columbia University, New York, NY

September 2015-Present

Ph.D., Chemistry;

Relevant Coursework: Solid State Physics, Inorganic NMR Spectroscopy, Chemistry of Nanocrystals, Quantum Chemistry, Statistical Thermodynamics, Research Ethics and Philosophy, Advanced Inorganic Chemistry

Advisor: Prof. Jonathan Owen

Bard College, Annandale-on-Hudson, NY

September 2011-May 2015

Bachelor of Arts, Chemistry;

Senior Thesis: Competition between the Formation of Five-Membered and Seven-Membered Platinum Metallacycles: Regioselective C-H Bond Activation

Relevant Coursework: Physical Chemistry, Advanced Inorganic Chemistry, Advanced Lab: Physical and Analytical Technology, Advanced Lab: Synthesis, Organometallic Chemistry, Nanochemistry, Introduction to Physics I & II, Vector Calculus, Linear Algebra with Ordinary Differential Equations, Advanced Ordinary and Partial Differential Equations, Advanced Linear Algebra Tutorial, Proofs and Fundamentals, Abstract Algebra

Advisor: Prof. Craig Anderson

II. Research Experience

Graduate Research-Supervisor: Prof. Jonathan Owen

December 2015-Present

Investigating the synthesis and electronic structure of transition metal carbonyl carbide clusters as superatomic building blocks

Undergraduate Research-Supervisor: Prof. Craig Anderson

Senior Thesis Research

September 2014-April 2015

Senior thesis research examined the reductive elimination of six-membered Pt(IV) cyclometalated complexes to yield five-membered and seven-membered Pt(II) cyclometalated complexes.

Bard College Summer Research Institute

June-July 2013, 2014, 2015

Worked on a number of projects as a full-time research assistant related to platinum and palladium C-H activation

III. Publications/Presentations

“Regioselective Formation of Six-Membered and Five-Membered Cyclometalated Platinum Complexes.” Craig M. Anderson, Matthew W. Greenberg, Tedros A. Balema, Leila M. Duman, Nathaniel Oh, Asad Hashmi, Leah Ladner, Kyan Jain, David Yu, and Joseph M. Tanski. *Tetrahedron Letters*, 56, 46, 2015, 6352–6355.

250th ACS National Meeting & Exposition August 2015
Poster-“Competition between the Formation of Seven-Membered and Five-Membered Cyclometalated Platinacycles.” Matthew Greenberg, Craig M. Anderson, Joseph Tanski.

248th ACS National Meeting & Exposition August 2014
Poster-“Regioselective Synthesis of Six-Membered and Five-Membered Cyclometalated Platinum Complexes.” Matthew Greenberg, Craig M. Anderson, Margarita Crespo, Asad Hashmi, Leila Duman, Tedros Balema, Leah Ladner, Kyan Jain, David Yu, Paul Lawrence, Joseph M Tanski.

IV. Teaching Experience

Columbia University

Teaching Assistant September 2015-Present
General Chemistry I Fall 2015: Prof. Gerard Parkin
General Chemistry II Spring 2016: Prof. Angelo Cacciuto

Held weekly recitation lectures, organized review sessions, wrote and graded quizzes

Bard College

Teaching Assistant September 2013-May 2014
Calculus I Fall 2013: Prof. Amir Barghi
Calculus II Spring 2014: Prof Csila Czabo

Held weekly office hours, was available for private tutoring, graded assignments

Math Study Room Tutor January 2014-May 2015
Drop-in tutoring for any class offered by the math department

V. Awards

ACS Mid-Hudson Section College Recognition Award April 2015
Award given annually to one outstanding senior student in each college in the section