

Carissa Manrique, PhD

Department of Undergraduate Science
Parker University
2500 Walnut Hill Ln,
Dallas, Texas, 75229
E-mail cmanrique@parker.edu

PROFESSIONAL PREPARATION

Institution	Major/area	Degree	Year
University of North Texas, Denton, TX	Chemistry/Ed	PhD	2011
Rice University, Houston, TX	Chemistry	MS	2008
Texas A&M University, College Station	Chemistry	BA	2006

APPOINTMENTS

2010-present Chemistry	Parker College of Chiropractics Dallas, TX	Assistant Professor,
2009-2010	Parker College Chiropractics Dallas, TX	Adjunct Professor, Chemistry
2008-2009 Chemistry	Tarrant County College Ft. Worth, TX	Adjunct Professor,
2006-2008 Assistant	Rice University Houston, TX	Graduate Teaching Chemistry
2005-2006 Chemistry	Texas A&M University College Station, TX	Student Instructor,
2005-2006	College Station High School College Station, TX	Assistant Student Teacher Chemistry

PUBLICATIONS (related to project)

1. Manrique, C; Mason, D. (2010). Symposium Report on Aligning Texas Four-by-Four High School Curricula and First-Year College Courses. *Journal of Chemical Education*. 87, 672-674. (DOI: 10.1021/ed100393x)
2. Baron, A.; Manrique, C. (2008) Solid State Structures of Semiconductors. *Connexions*,
3. Baron, A.; Manrique, C. (2008) Atomic Hydrogen. *Connexions*.
4. Baron, A.; Manrique, C. (2008) Bulk Semiconductor Synthesis and Purification.
5. Baron, A.; Manrique, C. (2008) Synthesis of Calcium-Silicon Composites: An in-Vitro Model System for Calcific Band Keratopathy Precipitates, In progress
6. *Solid State Structures of Semiconductors*. *Connexions*, May 2008
7. *Atomic Hydrogen*. *Connexions*, May 2008

8. *Bulk Semiconductor Synthesis and Purification*. Connexions, May 2008
9. *Formation of Silicon and Gallium Arsenide Wafers*. Connexions, June 2008
10. *The Effects of Silicon and Lipids on Calcific Band Keratopathy*. In progress
11. *Synthesis of Calcium-Silicon Composites: An in-Vitro Model System for Calcific Band Keratopathy Precipitates*, July, 2011
12. *Comparison of first-year grade point average and national board scores between alternative admission track students in a chiropractic program who took or did not take preadmission science courses*. Journal Chiropractic Education, 2020.

SYNERGISTIC ACTIVITIES

1. Guest Editor of Journal of Chiropractic Education, 2020
2. Developed an online Organic Chemistry Classroom, August 2010
3. Developed Organic Chemistry Lab Manual, September 2010: Organic Chemistry 1& 2 Laboratory Manual
4. Assisted in P-16 Alignment Symposium, July 18, 2009: Texas College and Readiness Symposium on Chemistry.
5. Developed General Chemistry Lab Manual, May 10, 2008: General Chemistry 1 & 2 Laboratory Manual.

COURSES TAUGHT

Organic Chemistry 1 (undergraduate level, science majors)
Organic Chemistry 2 (undergraduate level, science majors)
Organic Chemistry 1 Laboratory (undergraduate level, science majors)
Organic Chemistry 2 Laboratory (undergraduate level, science majors)
General Chemistry 1 (undergraduate level, science majors)
General Chemistry 2 (undergraduate level, science majors)
General Chemistry 1 Laboratory (undergraduate level, science majors)
General Chemistry 2 Laboratory (undergraduate level, science majors)

Collaborators and Other Affiliations:

Committee of Undergraduate success 2016-present
Committee of Grade Dispute 2016-present
Committee of Thinking About Thinking
Parker University, Fall 2012
Undergraduate Committee Member
Parker University, Fall 2013 present
Convocation Planning Committee
Parker University, Fall 2012
General Education Committee
Director, Parker University, Summer 2012-2013
Undergraduate Department Chair

Director, Parker University, Summer 2012-21014
SACS QEP Planning Committee
Parker University, Summer 2011
Graduate Advisor
Master's Research Andrew Baron, PhD Harvard University
Dissertation Research Diana Mason, PhD University of Texas, Austin
American Chemical Society
Active member
CBEN SLC
Member at biweekly meetings and special events, Rice University 2006-2008

Presentations:

1. *Synthesis of Calcium-Silicon Composites: An in-Vitro Model System for Calcific Band Keratopathy Precipitates*. Masters Thesis, Rice University March 21, 2008
2. *The Effects of Using Logic and Spatial Games to Improve Chemistry Success*. ACS-CHEMED 2010
3. *Comparison of first-year grade point average and national board scores between alternative admission track students in a chiropractic program who took or did not take preadmission science courses*. American Chiropractic Association, 2017
4. *How to Engage Students Through Out the Semester*. Parker Teaching Conference, 2020

References:

1. Breanna Duwadi, ASP
Siemens Industries
(503)-438-5782
breanna.duwadi@siemens.com
2. Eric Russell, PhD
Parker University
Student Affairs
(214)-902-2422
chiropracticphilosophy@gmail.com
3. Terence Cockerham
Parker University
Professor Undergraduate Studies
TCockerham@parker.edu
(214)-902-2459
4. Themba Ngwenya, PhD
Parker University
Dean of Undergraduate Studies
TNgwenya@parker.edu
214)-902-2459