

CHARLI KARISSA RUST

Brookhaven College • Farmers Branch, Texas • ckr0001@dccc.edu

PERSONAL SUMMARY

- Areas of proficiency: **engineering, physics**, mathematics, astronomy, technical writing, communication, science education, language education, community outreach.
- **Bilingual:** Spanish (80% fluency) and English (native fluency).
- Highlighted Achievement: **Outstanding Teaching Assistant Annual Award**, Department of Civil, Architectural, & Environmental Engineering, 2008-2009, University of Texas at Austin.

EDUCATION

Master of Engineering, Civil Engineering University of Texas at Austin	Graduated May 2009 Thesis Focus: Concrete Durability
Bachelor of Science, Architectural Engineering University of Texas at Austin	Graduated December 2006 Concentration: Structural Design
Graduate Coursework, Physics Texas A&M University, Commerce University of North Texas, Denton	August 2013 – May 2017 6 Graduate Hours Completed in Physics 12 Graduate Hours Completed in Physics

TEACHING EXPERIENCE

Faculty, Engineering & Physics Brookhaven College	August 2018 – Present Farmers Branch, Texas
<ul style="list-style-type: none">• Instructor of ENGR 1201 (Introduction to Engineering), ENGR 1304 (Engineering Graphics), ENGR 2332 (Mechanics of Materials), PHYS 1415 (Physical Science I).• Actively involved in STEM Club, Engineering Club, grant work, and community outreach.	
Adjunct Faculty, Engineering Brookhaven College	August 2017 – August 2018 Farmers Branch, Texas
<ul style="list-style-type: none">• Instructor of ENGR 1201 (Introduction to Engineering), ENGR 2302 (Engineering Mechanics: Dynamics), ENGR 2308 (Engineering Economics), ENGR 2332 (Mechanics of Materials), PHYS 1415 (Physical Science I).	
Graduate Teaching Fellow, Physics University of North Texas	July 2014 – December 2014 Denton, Texas
<ul style="list-style-type: none">• Instructor of PHYS 1062 (Astronomy: Stars and Galaxies).	
Graduate Teaching Assistant, Physics University of North Texas	August 2013 – May 2014 Denton, Texas
<ul style="list-style-type: none">• Instructor of undergraduate astronomy labs for PHYS 1052 (Astronomy: The Solar System) and PHYS 1062; also served as one-on-one tutor to undergraduate astronomy students.	
Graduate Teaching Assistant, Civil Engineering University of Texas at Austin	August 2008 – May 2009 Austin, Texas
<ul style="list-style-type: none">• Instructor of hands-on laboratories to undergraduate students in CE 314K (Properties & Behavior of Engineering Materials).	

ENGINEERING EXPERIENCE

Construction Project Manager & Cost Estimator Seaboard Foundations, Inc., a subsidiary of McKinney Drilling Co.	January 2012 – August 2012 Fort Worth, Texas
Graduate Research Assistant, University of Texas at Austin Construction Materials Research Group, J. J. Pickle Research Center	January 2007 – August 2008 Austin, Texas
Structural Engineer, Bridge Design & Transportation Group HDR Engineering, Inc.	May 2006 – September 2006 Austin, Texas

PUBLICATION

Graduate Thesis, Master of Engineering, University of Texas at Austin, 2009

“Role of Relative Humidity in Concrete Expansion due to Alkali-Silica Reaction and Delayed Ettringite Formation: Relative Humidity Thresholds, Measurement Methods, and Coatings to Mitigate Expansion” by Charles Karissa Rust (106 pp.)

Electronic access: <https://repositories.lib.utexas.edu/handle/2152/ETD-UT-2009-05-81>

PROFESSIONAL REFERENCES

Dr. Kathryn Wetzel, Supervisor

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Dr. Kevin Folliard, Advisor

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