

OBJECTIVE

Assisting students in realizing academic success by providing instructional, organizational, and motivational guidance as a teacher and tutor with a contagious passion for learning.

SUMMARY OF ATTRIBUTES

- Excellent communication skills with students of any age
- Comprehensive understanding of mathematical and scientific subjects
- Well-rehearsed in behavioral techniques for students of varied learning types
- Neurological and molecular insight regarding learning and memory
- Ability to tailor an organizational approach to schoolwork for the individual student
- Balancing several course preparations in a single academic year
- Experienced in curriculum writing and development
- Consuming belief that all students can succeed with an appropriate support system in place along with a recognition of the individual's academic niche

WORK EXPERIENCE

Private Tutor and Academic Coach – Independent Contractor – 9/2005-Present

Providing customized instruction for students in middle school through college in several subjects, with a focus in upper-level math and science classes.

Math and Science Instructor – The Covenant School of Dallas – 1/2010 – 6/2019

Teaching 3-5 course preparations in a school year and writing various curricula. Courses taught include Physical Science, Earth Science, Chemistry, Pre- AP Chemistry, Physics, Pre-AP Physics, Algebra1, Algebra 2, Pre-AP Algebra 2, College Algebra, Pre-Calculus, AP Calculus AB.

ACT Instructor and Tutor – The Princeton Review – 3/2015 – 9/2017

Providing ACT preparation in both classroom settings and individual tutoring. Providing tutoring for SAT Subject Level Tests.

Teacher's Assistant – University of Texas at Dallas – Richardson, TX – 1/2005-5/2005

Taught weekly Biochemistry Laboratory sections, prepared explanatory lectures each week, and assisted students in conducting their experiments. Held weekly office hours, reviewed lab reports, and administered and graded practical exams.

Teacher's Assistant – W.T. White H.S. – Dallas, TX 9/2004-5/2005

Assisted a chemistry teacher in after school tutoring, grading and prepping labs through an internship program coordinated by UTD, DISD, and the NSF.

Behavioral Therapist – Independent Contractor – Dallas, TX – 3/1999-8/2001

Utilized Applied Behavior Analysis, ABA, techniques to educate young children with pervasive developmental disorders such as Autism. Collected behavioral data, delivered behavioral and play therapy, and collaborated with numerous health professionals to develop customized treatments for each patient.

RESEARCH EXPERIENCE

Molecular & Cellular Biology - 5/2004-8/2004

- Created and verified bacterial mutants to determine regulatory conditions and gene expression.
- Presented weekly project status updates to the group and instructor.

Biochemistry – 5/2004-5/2005

- Examined the thermodynamic stability of amyloid fibrils formed from peptides homologous to a sequence in the Tau protein, which is associated with the pathology of Alzheimer's disease.
- Prepared weekly presentations for the group to communicate progress.
- Reviewed and presented several papers relevant to the project.

- Presented research thesis to chemistry department faculty
- Published work in the journal of *Biochemistry*

Applied Behavior Analysis – 1999-2000

- Worked with graduate students through the North Texas Autism Project as a therapist to obtain data.
- Participated as a model therapist in training sessions for new therapists.
- Participated in weekly team meetings to present therapeutic data and direction.

EDUCATION

University of Texas at Dallas; Richardson, Texas
Bachelors of Science in Biochemistry and Molecular Biology, 2005
Additional focus in Neuroscience and Mathematics
Magna cum Laude, Redman Scholar

VOLUNTEER ACTIVITIES

- Chess Club Coach for K-3 students using Championship Chess[®] curriculum
- Texas Math and Science Coaches Association (TMSCA) –coaching assistant and Long meet coordinator
- Volunteer tutor for students at various public schools and after-school programs
- DISD and DRSEF Science Fair Judge
- Science Fair Coordinator at the Covenant School
- Other activities include preparing meals for the homeless, park clean-ups, projects with Buckner Ministries, service at the North Texas Food Bank, and working at the polls during election seasons.

PUBLICATIONS

“Prediction of Nucleating Sequences from Amyloidogenic Propensities of Tau-Related Peptides”, *Biochemistry* **2006**, 45, 4638-4652.

PROFESSIONAL ASSOCIATIONS

Member American Chemical Society
Mathematics Association of America

REFERENCES

References are available upon request