

Michael Todd Mary, Ph.D.
1301 Oak Street, Schertz, TX 78154
Telephone: 210-382-5037 / e-mail: miketmary@gmail.com

EDUCATION

Doctor of Philosophy, Interdisciplinary Learning and Teaching **August 2015**
University of Texas at San Antonio
Dissertation: An Investigation of the Impact of High School Science Course Sequencing on Student Performance in Science and Math

Master of Education, Educational Leadership **December 2010**
Lamar University, Beaumont, Texas

Bachelor of Science, Exercise and Sport Science (Minor: Biology) **May 2001**
Texas State University, San Marcos
Awards: College of Education Award for Academic Excellence (2001)

HIGHER EDUCATION EXPERIENCE

Lecturer and Field Specialist, Texas A&M University- San Antonio **Jun 2021 – Current**
Duties and Responsibilities:

- Oversee field experience for pre-service teacher experiences during their field residency courses and clinical teaching assignments, to include observation of the development and presentation of lessons to students in placement classrooms.
- Deliver real-time supervision and consultation to clinical teachers during their clinical teaching assignments
- Provide support and guidance to a cadre of field supervisors (university adjunct supervisors) as they oversee their own clinical and field residents.
- Assist with admission of students to the educator preparation program, arranging for field residency and clinical teaching placements with participating school districts.

Education Development Specialist, UT Health-San Antonio School of Medicine **Jan 2018 – July 2019**
Duties and Responsibilities:

- Design and deliver faculty development experiences for medical faculty and staff charged with classroom teaching
- Work with Module Co-Directors to plan and improve the scope and sequence of modules
- Work collaboratively with instructional designers to improve the blended classroom experience
- Analyze and Evaluate module assessment data to determine areas for instructional improvement
- Assist in aligning the undergraduate medical school curriculum with expectations of the STEP exam
- Develop and maintain a medical education research agenda
- Assist in seeking grants to support advancement in medical education

Teaching Associate/Lecturer I, University of Texas at San Antonio **August 2012 – June 2015**
Courses Taught:

- Introduction to Learning and Teaching in a Culturally Diverse Society
- Society and Social Issues
- Diversity, Equity, and the Social Sciences
- Models of Teaching in the Content Areas of the Secondary School (Science)*
- Approaches to Teaching Science (Gr. 4-8)*
- Approaches to Teaching Science (Gr. K-5)*

- Investigations in Physical Science*

*syllabus and course evaluations available

Awards: Interdisciplinary Learning and Teaching Doctoral Fellowship (2012)

Adjunct Faculty, Trinity University, San Antonio, Texas

August 2013 – May 2015

Courses Taught:

- Teaching Science in the Elementary School*
 - Teaching Science and Math in the Secondary School
- *syllabus and course evaluations available

TEACHING EXPERIENCE (K-12 Education)

High School Science Teacher, Schertz-Cibolo-Universal City ISD

**Aug 2004 – Jan 2009;
July 2019 - Jun 2021**

Courses Taught (2019-2021):

- OnRamps Physics (Dual Enrollment course with University of Texas Austin)
- High School Physics I
- International Baccalaureate Physics

Courses Taught (2004-2009):

- High School Physics I (Regular and Pre-Advanced Placement)
- Advanced Placement Physics (Algebra-Based Course)
- International Baccalaureate Physics (Standard Level and High Level)

Awards: Maribeau B. Lamar Award for Educational Excellence from Masonic Order of Texas (2008)

High School Science Teacher, Seguin ISD, Seguin, TX

Aug 2001 – July 2004

Courses Taught:

- High School Biology (Pre-Advanced Placement)
- Integrated Physics and Chemistry

LEADERSHIP EXPERIENCE

Assistant Director, Rice University Office of STEM Engagement

July 2015 – June 2016

Duties and Responsibilities:

- Manage Leadership Learning experiences for Rice Elementary Model STEM Lab (REMSL)
- Develop and Manage new STEM learning experiences for REMSL program participants
- REMSL Data Collection and Analysis
- Management of off-site REMSL teaching labs, materials and equipment.
- On-Campus Observations and Mentoring of REMSL program participants
- Consultant for Rice Excellence in Secondary Science Teaching (RESST) physics program
- Assist with program grant writing

District Coordinator for K-12 Science, Schertz-Cibolo-Universal City ISD

Jan 2009 – July 2012

Duties and Responsibilities:

- Develop Science Course Scope and Sequence
- Develop and analyze all in-district common science assessments
- Analysis of student performance on state science assessments
- Instructional Observer/Mentor (Instructional Coaching)
- Development of science programs and initiatives focused on meeting district goals

- Managed acquisition of science instructional resources and materials
- Managed professional development for district science teachers
- Developed and delivered 200+ hours of district wide science training and workshops

Accomplishments:

- Gains in student performance on required science TAKS/STAAR during each year of service
- Increased enrollment in advanced science courses during each year of service
- Gains in student performance on AP and IB science assessments during each year of service
- Developed program to successfully implement new science TEKS
- Developed and implemented Physics First (ninth grade physics) pilot program

Awards: Distinguished Educator Award from SCUCISD Education Foundation (2009)

OTHER RELATED EDUCATION EXPERIENCE

Independent Science Education Consultant, Self Employed

Jan 2017 – Nov 2018

Duties and Responsibilities:

- Develop and provide science professional development based on client's needs
- Science Teacher or Science Leader mentoring
- Client-specific curriculum development

Adjunct Science Specialist (PT), Education Service Center-Region 20

January 2007 – July 2010

Duties and Responsibilities:

- Develop and provide professional development workshops for physics teachers
- Science Teacher Mentor for Texas Regional Collaborative Grant
- Instructional Team Member for Texas Regional Collaborative Grant

CERTIFICATIONS

- Medical Education Research Certificate, *American Association of Medical Colleges*
- Principal (EC-12), *Texas State Board of Educator Certification*
- Composite Science Teacher (Grades 6-12), *Texas State Board of Educator Certification*
- Elementary Teacher (Grades 1-6), *Texas State Board of Educator Certification*
- English as a Second Language (K-12), *Texas State Board of Educator Certification*
- Texas Teacher Evaluation and Support System (T-TESS), *Texas Education Agency*
- Advanced Placement (AP) Physics Instructor, *The College Board*
- Middle School Pre-Advanced Placement (Pre-AP) Science Instructor, *The College Board*
- International Baccalaureate (IB) Physics Instructor, *Florida League of IB Schools*

CONFERENCE PROCEEDINGS (REFEREED)

Allen, C. D., Neely, A. D., McKenzie-Davis, J. A., Johnson, J. S., Mary, M. T., & Pate, P. E. (2013). Examining mentoring case narratives. In N. Dominguez & Y. Gandert (Eds.), 6th Annual Mentoring Conference proceedings: Impact and effectiveness of developmental relationships. Albuquerque, NM: University of New Mexico.

CONFERENCE PRESENTATIONS

"Preparing the Next Generation Science Teacher". Presentation delivered at the Association of Science Teacher Education Southwest Regional Conference- San Antonio, Texas, January 2015.

MEDIA APPEARANCES

“STEM Education”. In-studio guest appearance, *Tech City USA Radio Show*, KLUP 930 AM- San Antonio, Texas, 25 October 2014.

PROFESSIONAL AFFILIATIONS

- American Association of Medical Colleges
- Science Teacher Association of Texas *served as an official social media contributor (2017)
- National Science Teacher Association
- National Science Education Leadership Association
- Texas Science Education Leadership Association
- Association for Supervision and Curriculum Development