

**Michael Todd Mary, Ph.D.**  
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## **EDUCATION**

**Doctor of Philosophy, Interdisciplinary Learning and Teaching** **August 2015**  
University of Texas at San Antonio

**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**

**Assistant Professor of Science Education, Texas A&M- San Antonio** **August 2024 –Present**  
Courses Taught (Beginning Fall 2024):

- Elementary Science Instructional Methods (course lead)
- Middle and Secondary Science Methods (course lead)
- STEAM Education in Diverse Communities (graduate course)

**Lecturer, Curriculum and Instruction, Texas A&M- San Antonio** **August 2022 –July 2024**  
Courses Taught (Fall 22 – Present):

- Educator Roles and Responsibilities (course lead)
- Elementary Science Instructional Methods (course lead)
- Middle and Secondary Science Methods (course lead)
- Qualitative and Quantitative Research Methods (graduate course)
- STEAM Education in Diverse Communities (graduate course)

**Field Specialist, Office of Certification and Field Experience- TAMUSA** **June 2021 – August 2022**  
Duties and Responsibilities:

- Supervised students during their field residency and clinical teaching experiences to include guiding monthly seminars and conducting field observations and evaluations.
- Supervised cadre of field specialists (adjuncts) as they supervised and evaluated students during their field residencies and clinical teaching experiences.

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

- Designed and delivered faculty development experiences for medical faculty and staff charged with classroom teaching
- Worked with Module Co-Directors to plan and improve the scope and sequence of modules
- Worked collaboratively with instructional designers to improve the blended classroom experience
- Analyzed and Evaluated module assessment data to determine areas for instructional improvement
- Assisted in aligning the undergraduate medical school curriculum with expectations of the STEP exam
- Developed and maintained a medical education research agenda
- Assisted in seeking grants to support advancement in medical education

**Assistant Director, Rice University Office of STEM Engagement** **July 2015 – June 2016**  
Duties and Responsibilities:

- Managed Leadership Learning experiences for Rice Elementary Model STEM Lab (REMSL)
- Developed and Managed 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
- Assisted with program grant writing

**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

## **K-12 EDUCATION EXPERIENCE**

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

**July 2019 - Jun 2021**

Courses Taught:

- OnRamps Physics (Dual Enrollment course with University of Texas Austin), High School Physics I, International Baccalaureate Physics (both HL and SL)

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

**Jan 2009 – July 2012**

Duties and Responsibilities:

- Developed Science Course Scope and Sequence
- Developed 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)*

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

**Aug 2004 – Jan 2009**

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)*

## **RELATED EDUCATION EXPERIENCE**

**Independent Science Education Consultant, Self Employed**

**Jan 2017 – Nov 2018**

Duties and Responsibilities:

- Developed and provided 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:

- Developed and provided 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*

## **PUBLICATIONS**

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.

Mary, Michael T. (2015). *An Investigation of the Impact of High School Science Course Sequencing on Student Performance in Science and Math*. [Doctoral Dissertation, University of Texas at San Antonio]. ProQuest Dissertations and Theses database.

## **PRESENTATIONS**

"Empowering Student Success: One University Department's Journey Towards Accountability." Accepted presentation at the Association of Teacher Educators National Conference- Anaheim, CA, March 2024.

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

"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

