

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)
- Introduction to Interdisciplinarity (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 - June 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

January 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

August 2004 – January 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: Maribeu B. Lamar Award for Educational Excellence from Masonic Order of Texas (2008)

RELATED EDUCATION EXPERIENCE

Independent Science Education Consultant, Self Employe

January 2017 – November 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

Piper, R. E., Kohler, K. L., Kapavik, R. R., & **Mary, M.T.** (2024). Encouraging teacher candidates to be responsible, organized, and ready. *The Texas Forum of Teacher Education*, 15, 8-13.

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.

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.

PRESENTATIONS

Mary, M., & Kohler, K.L. (2025, October 12-14). Before they can learn how to teach, they need to learn how to learn: Using metacognition to improve teacher education. [Conference presentation]. CSOTE, Denton, TX, United States.

Mary, M., Kohler, K., Piper, R., & Kapavik, R. (2025, October 12-14). *Shaping teacher identity: The impact of foundational preparation*. [Conference presentation]. CSOTE, Denton, TX, United States.

Kohler, K. L. & **Mary, M.** (2025, December 4). Metacognition meets dyslexia: What teachers need to know about themselves first [Conference presentation]. Region 4 Dyslexia Conference, Houston, TX.

Kapavik, R. R., Piper, R. E., Kohler, K. L., & **Mary, M.T.** (2024, March 27-30). *Empowering student success: one department's journey towards accountability* [Conference presentation]. ATE Annual Meeting, Anaheim, CA, United States.

Kapavik, R. R., Piper, R. E., Kohler, K. L., **Mary, M.T.**, & Savage-Davis, E. M. (2024, October 13-15). *Supporting teacher candidates to ROAR: Responsible. Organized. And. Ready*. [Conference presentation]. CSOTTE, San Marcos, TX, United States.

Kohler, K. L., Piper, R. E., Kapavik, R. R., **Mary, M.T.**, & Savage-Davis, E. M. (2024, September 24-26). *Data empowerment: Facilitating conversations around student data* [Conference presentation]. Branch Alliance Fall Convening, Dallas, TX, United States.

Kapavik, R. R., Kohler, K. L., **Mary, M.T.**, Piper, R. E., & Savage-Davis, E. M. (2024, September 24-26). *Empowering student success: One university's innovative strategy toward accountability* [Conference presentation]. Branch Alliance Fall Convening, Dallas, TX, United States.

States.

- Mary, M.T.**, Kohler, K. L., Piper, R. E., Kapavik, R. R., & Savage-Davis, E. M. (2025, March 8-12). *From teacher candidates to teachers: Supporting the teacher pipeline by providing certification exam support* [Conference presentation]. ATE Annual Meeting, New Orleans, LA, United States.
- Mary, M.T.**, *Preparing the next generation science teacher*. (January 2015) [Conference presentation]. Association of Science Teacher Education Southwest Regional Conference, San Antonio, Texas.
- Mary, M.T.** "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

