

KRISTIAN E. FISCHER

EDUCATION



Ed.D. School Improvement

2023

University of Texas at Tyler



M.Ed. Curriculum and Instruction

2005

University of Texas at Tyler



B.S. Oceanography

1992

University of Washington

PROFESSIONAL EXPERIENCE

- District Science & Project Based Learning Specialist (2024- present)
CTE & PLTW Programming
- Faculty & Instructional Coach (2018-2023)
University of Texas Tyler University Academy Tyler, Texas
Subjects: Engineering, Physics, Chemistry
Coaching: K-12 All Content
- Educational Consultant & Trainer, 2008 – present
Fischer Educational Resources Arp, Texas
- Faculty, 2015 - 2018
Lake Travis High School Austin, Texas
Subjects: Chemistry, Physics
- Director, 2012 – 2015
Discovery Science Place - University of Texas at Tyler Tyler, Texas
- STEM Special Projects Consultant, 2013 – 2015
University of Texas at Tyler Tyler, Texas
- Director of the East Texas STEM Center, 2008 – 2013
University of Texas at Tyler Tyler, Texas
- Lecturer/Grant Researcher, 2007 – 2015
University of Texas at Tyler Tyler, Texas
College of Education & Psychology/College of Engineering & Computer Science
- Faculty, 2001 – 2007
Subjects: Chemistry, Physics Tyler, Texas

- Research Assistant, 1990-1992 Seattle, Washington
U. of Washington – College of Ocean & Fishery Sciences (N.S.F. Grant)

ADDITIONAL CERTIFICATIONS

- Secondary Physical Science
- PK-12 Art
- PK-12 ESL
- Introduction to Engineering (PLTW)
- Civil Engineering & Architecture (PLTW)
- Principles of Engineering (PLTW)
- Engineering Design & Development (PLTW)
- Autodesk - Fusion 360 and Revit
- GLOBE Teacher & Trainer

ADDITIONAL PROFESSIONAL ACTIVITIES



Co-PI, AP Computer Science Laso Cycle 4, TEA



Expert Reviewer – Volumes 1-3, Ocean Literacy: The Foundation for the Success of the Ocean Decade (UNESCO-IOC Ocean Decade)



Curriculum and College Readiness - Texas STEM Coalition



Steering Committee – Texas STEM Centers



National STEM Taskforce - American Association of University Women
Southeastern Liaison for American Association of University Women to the National Girls Collaborative Project



Grant Reviewer – National Girls Collaborative Project/Texas Girls Collaborative Project



Leadership Board – Texas Girls Collaborative Project
Champions Board - Texas Girls Collaborative Project



Co-PI, Texas Regional Collaboratives for Math & Science, UT Tyler



GLOBE Trainer/Teacher



STEM Project Based Learning Team - Educate Texas/ Texas High School Project

- Texas Instruments Nspire – STEM Curriculum Writing Team

- National Instruments - Project Lead, MyDAQ Physics Initiative
- AWE – Assessing Women and Men in Engineering
- SEC – Survey of Enacted Curriculum (CCSSO & WCER)
- TAMEST – The Academy of Medicine, Engineering and Science in Texas – Focus Group for The Next Frontier: World Class Math and Science Education in Texas
- Mentor – T.I.S.D. - certified district mentor for first year teachers
- District Curriculum Writer - responsible for writing district-wide secondary chemistry curriculum, scope & sequence, designing assessment tools, investigating resources and verifying TEKS alignment
- TAKS Coordination Board - responsible for school wide coordination of core subject remediation, staffing, budget, scheduling, student population criteria for inclusion, curriculum design and assessment
- PLATO Curriculum Alignment Committee – responsible for coordinating Plato National curriculum software with state-mandated TEKS and district scope and sequence for credit recovery, remediation, Pace, Plyler and at-risk students
- TAKS Science Senior Remediator - responsible for researching best practices, designing multi-media materials for exit-level students who are at risk for non-completion, individual tutoring, bi-lingual materials. Also responsible for assessing and analyzing aggregate and disaggregated data
- Conference Presenter - national & regional presenter – responsible for training fellow educators in issues of STEM, metacognition, learning style, diversity, at-risk best practices, TAKS remediation and curriculum writing
- Elementary Outreach – visit district elementary schools to promote interest in science, facilitate understanding of science fundamentals, through demonstrations and question/answer sessions
- Science Olympiad – extracurricular science competition - responsible for recruiting and coaching student participants with emphasis on gender equity and science excellence.
- Bilingual / Sheltered – responsible for researching best practices in science knowledge/ skill acquisition for limited English proficiency students and making recommendations for program implementation at Tyler Lee

CONFERENCE PAPERS – PRESENTATIONS (SELECTED)

Coalition of Essential Schools – Fall Forum

Using Dynamic Disequilibrium Strategies in Instruction and Management to Affirm Diversity in the Classroom
November 2004, San Francisco, California

American Society for Engineering Education - National Conference A Vision for P-16

Collaborations (w/ James Nelson Ph.D.) June 2008, Pittsburgh, Pennsylvania

Texas Regional Collaboratives for Excellence in Science and Mathematics - Annual Conference

Using the Surveys of Enacted Curriculum (w/ Michael Odell, Ph.D.)

NSTA Sci-Paks (with Al Byers,
M.Ed.) June 2008, Austin, Texas

University of Texas at Tyler Faculty Research Day

Facilitating P-16 Alignment with the Surveys of Enacted Curriculum
Summer 2008, Austin, Texas

Southeast Regional STEM Center, University of Texas Medical Branch - Annual Conference

Learning Styles/Teaching Styles: Addressing Diversity

Using the Surveys of Enacted Curriculum in Professional Development
November 2008, Galveston, Texas

Delta Kappa Gamma

Learning Styles/Teaching Styles: Addressing Diversity

February 2009 – Galveston, Texas

Texas Association of School Administrators Midwinter Conference

What Can Texas STEM Centers Do for Your District?

Texas STEM Centers, Vertical Alignment, and College Readiness
January 2008, Austin Texas

American Society for Engineering Education – GSW Regional Conference

The Path to STEM Careers: Student Perceptions of College Pathways and Barriers to
Success (w/ Fredericka Brown, Ph.D.)

American Society for Engineering Education - National Conference

Assessing Peer Attitudes Among STEM students and The Potential Effects
on The Retention of Females in STEM Programs (w/ Fredericka Brown,
Ph.D. & Michael Odell, Ph.D.)

Assessing Peer Attitudes Among STEM students and The Potential Effects
on The Retention of Minorities in STEM Programs (w/ Fredericka Brown,
Ph.D. & Michael Odell, Ph.D.)

June 2009, Austin, Texas

Women in Engineering Proactive Network – National Conference

Building P-16 Engineering Collaboratives from the Higher Education Perspective
June 2009, Austin, Texas

PUBLICATIONS AND POSTERS(SELECTED)

(Note: Previous last name was Trampus)

Odell, M.R.L., Fischer, K., Kennedy, T. (2025, January) “Impact of the Texas STEM Coalition: Evolution of STEM Education in Texas”, Hawaii International Conference on Education: 23rd

Annual Conference Honolulu, Hawaii.

Odell, M.R.L., Fischer, K., Kennedy, T. (2025, January). “The Design and Implementation of the EdD Program and Dissertation of Practice at UT Tyler”. Hawaii International Conference on Education: 23rd Annual Conference Honolulu, Hawaii.

Trampus, K., Odell, M.R.L., & Kennedy, T.J. (2012, January).. “Building P-16 Collaborations from the Higher Education Perspective.” Hawaii International Conference on Education: 10th Annual Conference Honolulu, Hawaii.

Trampus, K., Odell, M.R.L., & Kennedy, T.J. (2012, January). “Leveraging Diverse STEM Programs to Foster a Robust Statewide Collaborative.” Hawaii International Conference on Education: 10th Annual Conference, Honolulu, Hawaii.

Trampus, K., Brown, F. And Odell, M.R.L. 2009 Assessing Peer attitudes among STEM students and the potential effects on the retention of minorities in STEM Programs, ASEE Austin, TX

Trampus, K., Brown, F. And Odell, M.R.L. 2009 Assessing Peer attitudes among STEM students and the potential effects on the retention of females in STEM Programs, ASEE Austin, TX

Nelson, J.T, Trampus, K, and Odell, M.R.L. 2008. A vision of P-16 education and the relationship between. ASEE Pittsburg, PA

Odell, M.R.L. and Trampus, K. 2008, Surveys of Enacted Curriculum, Texas Regional Collaborative Annual Conference, Austin, Texas

Odell, M.R.L. and Trampus, K. 2008. An Analysis of the Texas Essential Knowledge and Skills (TEKS) Test versus the Texas Assessment of Knowledge and Skills (TAKS), Tyler, Texas

Trampus K. and Odell, M.R.L. 2008, Surveys of Enacted Curriculum, Southwest Association of Science Teacher Educators, Irving, Texas.

Odell, M.R.L., Nelson, J, and Trampus, K., 2008, The East Texas STEM Center Strategic Plan. Submitted to the Texas Education Agency and the Community Foundations

Odell, M.R.L. 2009, Fontenot, D., Tribett, K, and Trampus, K. 2009, Vertical Alignment and College Readiness. Association of School Administrators Mid-Winter Conference, Austin, Texas.

Capraro, R., Odell, M.R.L., and Trampus, K., 2009, What T-STEM Centers do for your School District. Texas Association of School Administrators Mid-Winter Conference, Austin, Texas.

GRANTS

Odell, Michael R.L. (PI), Nelson, J, and Trampus, K., East Texas STEM Center,

Congressional Grant, \$300,000, 2010.

Odell, Michael R.L. (PI), Nelson, J, and Trampus, K., East Texas STEM Center, Congressional Grant, \$148,000, 2008.

Odell, M.R.L., Nelson, J.K. (Co-PI), Trampus, K., (Co-I), Brown, F. (Co-I), Stocks, E. (Co-I), and Bailey, B. (Co-I), 2011-13, Ingenuity Center, Texas STEM Initiative, Texas Education Agency, (\$800,000)

Odell, M.R.L., Brown, F and Trampus, K. (Co-PI), 2011-12. Texas Regional Collaborative, Texas Education Agency/UT-Austin, (\$200,000)

Odell, M.R.L. (Co-PI), Nelson, J.K. (Co-PI), Trampus, K., (Co-I), Brown, F. (Co-I), Stocks, E. (Co-I), Geiger, W. (Co-I) and Bailey, B.. (Co-I), 2010-11, East Texas STEM Center, Texas STEM Initiative, Texas Education Agency, (\$550,000)

Odell, M.R.L., Brown, F and Trampus, K. (Co-PI), 2010-11, Texas Regional Collaborative, Texas Education Agency/UT-Austin, (\$99,000)

Odell, M.R.L., Trampus, K., Gray, N, Bailey, B, 2010, CCRI SEC (\$15,000)

Odell, M.R.L., Brown, F and Trampus, K. (Co-PI), 2009-10, Texas Regional Collaborative, Texas Education Agency/UT-Austin, \$97,000 Addendum (\$26,000)

Odell, M.R.L., Brown, F and Trampus, K. (Co-I), 2008-09, Texas Regional Collaborative, Texas Education Agency/UT-Austin, \$97,000

Odell, M.R.L., Brown, F and Trampus, K., 2007-08, Texas Regional Collaborative, Texas Education Agency/UT-Austin, \$97,000

Odell, M.R.L. (Co-PI); Nelson, J.K. (Co-PI), Trampus, K., (Co-I), Brown, F. (Co-I), Stocks, E. (Co-I), Geiger, W. (Co-I) and White, A. (Co-I), 2007-10, East Texas STEM Center, Texas STEM Initiative, Texas Education Agency, \$3.25 million.