

Dr. Carmen H. Fies
Associate Professor Emeritus
The University of Texas at San Antonio

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The University of Texas at San Antonio One UTSA Circle San Antonio, TX 78249	

Education

Doctor of Philosophy, Science Education, The University of Texas at Austin

Master of Science, Environmental Science, The University of Texas at San Antonio

Bachelor of Science, Multidisciplinary Science, The University of Texas at San Antonio

Academic Positions

2015 - 2022	Associate Professor - College of Science, Department of Chemistry, The University of Texas at San Antonio
2011 - 2022	Associate Professor - College of Education and Human Development, Department of Interdisciplinary Learning and Teaching, The University of Texas at San Antonio
2005 - 2011	Assistant Professor - Department of Interdisciplinary Learning and Teaching, The University of Texas at San Antonio
2001 - 2005	Adjunct Professor - Department of Interdisciplinary Studies and Curriculum and Instruction, The University of Texas at San
1999 - 2002	Adjunct Professor - Environmental Science Program, City Colleges of Chicago, Harold Washington College, European
2000	Adjunct Professor - Biology Program, University of Maryland University College, European Division

Administrative Assignments

2019 - 2022	Coordinator, UTSA-COEHD-ILT: IDS Undergraduate Degree
2015 - 2022	Co-Director, UTeachSA
2015 - 2018	Director, UTSA-COEHD: Center for Military Families
2017 - 2018	Faculty-in-Residence, UTSA Lab School @ CAST Tech High
2013 - 2017	Coordinator, UTSA-COEHD-ILT: IDS Science Laboratories
2012 - 2016	Coordinator, UTSA-COEHD-ILT: IDS Undergraduate Degree
2005 - 2012	Coordinator, UTSA-COEHD-ILT: IST Graduate Degree Program
2011	Visiting Scholar, P-20 Initiatives, UTSA
2001 - 2005	Coordinator, UTSA-COEHD-ILT: IDS Science Laboratories

Research Interests

Emergent technologies in STEM Education, with diverse learners in formal and informal settings.

Publications, Peer-Reviewed/Refereed

2024

Fies, C.H., Ewoldt, K.E. Artificial Intelligence as Assistive Technology? The Case of English Learners with Learning Disabilities. *TESOL Encyclopedia of English Language Teaching*. Wiley-Blackwell. (Accepted)

2021

Fies, C.H., Packham, C. (2021). Transitioning STEM-focused Teacher Professional Development from Face-to-Face to Online. In E. Langran & L. Archambault (Eds.), (pp. 486-491). Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/219175/>

2022

Fies, C.H., Ewoldt, K.E. (2022). Promising technologies and their uses for English learners with learning disabilities. *TESOL Encyclopedia of English Language Teaching*. Wiley.

2018

Fies, C.H. (2018). Integrating Technology Institutionally. In John I. Lontas and Margo DelliCarpini (Eds.), *TESOL Encyclopedia of English Language Teaching*. Wiley.

Fies, C.H. (2018). Second Life and Professional Development. In John I. Liontas and Margo DelliCarpini (Eds.), *TESOL Encyclopedia of English Language Teaching*. Wiley.

2017

Ferrer, V., Perdomo, A., Rashed-Ali, H.M., Fies, C.H., Quarles, J.P. (2017). Virtual Humans for Temperature Visualization in a Tangible Augmented Reality Educational Game. IEEE. <https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbX2cmtlbHZhcnxneDo2NjgzYzA1ODBkZTczMWVj>

2016

Fies, C.H., Kulhanek, J. (2016). What the data tell us: The Transfer Academy for Tomorrow's Engineers (TATE). In Stephen Handel and Eileen Stempel (Eds.), *Promising Practices* (pp. 51-59). Dahlonga, GA: University of North Georgia Press.

2014

Rashed-Ali, H.M., Quarles, J.P., Fies, C.H., Sanciu, L. (2014). Use of augmented-reality in teaching energy efficiency: prototype development and testing. Honolulu: ARCC/EAAE 2014 International Conference: New Intersections and Connections. <http://www.arch.hawaii.edu/arcc-eaae2014/>

2013

Ferrer, V., Perdomo, A., Rashed-Ali, H.M., Fies, C.H., Quarles, J.P. (2013). How Does Usability Impact Motivation in Augmented Reality Serious Games for Education? Bournemouth University: Fifth International Conference on Games and Virtual Worlds for Serious Applications 2013 (VS-Games 2013).

Fies, C.H., Quarles, J.P., Rashed-Ali, H.M., Dancer, D. (2013). Teacher Dispositions toward Augmented Reality (AR). (pp. 3148-3153). Chesapeake, VA: SITE Proceedings. www.editlib.org/p/48578

2011

Fies, C.H., Langman, J. (2011). Bridging Worlds: Measuring Learners' Discursive Practice in a PartSim Supported Biology Lesson. *International Journal of Science and Mathematics Education*, 9, 1415-1438.

2010

Langman, J., Fies, C.H. (2010). Classroom response system-mediated science learning with English language learners. *Language and Education*, 24(2), 81-99.

2008

- Fies, C.H., Mason, D. (2008). Clip Clues: Discovering Chemical Formulas. *Journal of Chemistry Education*, 85(12), 1648A.
- Fies, C.H. (2008). Online Jigsaw Science Inquiry for Preservice Teachers. *Journal of Computing in Teacher Education*, 24(3).
- Fies, C.H., Marshall, J. (2008). The C3 Framework: Evaluating Classroom Response System Interactions in University Classrooms. *Journal of Science Education and Technology*, 17(5), 483-499.
- Fies, C.H. (2008). Tech Support: Learning to Teach with Technology. Electronic Proceedings of the International Conference on Technology in Collegiate Mathematics (ICTCM). archives.math.utk.edu/ICTCM/v20.html
- Fies, C.H., Mittag, K. (2008). Various Ideas to Integrate Mathematics, Science and Technology in the Classroom. Electronic Proceedings of the International Conference on Technology in Collegiate Mathematics (ICTCM). archives.math.utk.edu/ICTCM/v20.html

2007

- Fies, C.H., Moseley, C. (2007). Rainsticks: Integrating culture, folklore, and the physics of sound. *Science Activities: Classroom Projects and Curriculum Ideas*, 44(1), 2-5.
- Fies, C.H. (2007). Research summary: Digital technologies in mathematics and science education [Electronic Version]. *NMSA Research Summaries*. nmsa.org/ResearchSummaries/DigitalTechnology/tabid/1486/Default.aspx
- Langman, J., Fies, C.H. (2007). Technology-mediated science inquiry: Moving from everyday to classroom science, moving from native language to English. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2007* (pp. 3434-3436). Chesapeake, VA: AACE.

2006

- Fies, C.H., Marshall, J. (2006). Classroom Response Systems: A review of the literature. *Journal of Science Education and Technology*, 15(1), 101-110.

2005

- Fies, C.H., Marshall, J. (2005). Electronic Response Systems in classrooms. *AAPT Announcer*, 34(4), 111.

2004

- Mason, D., Fies, C.H., Taylor, S.E., Mittag, K.C. (2004). How scientists communicate with numbers. *Texas Mathematics Teacher*, LI(1), 14-21.

2003

Birnbaum, S.J., Fies, C.H., Swanson, E. (2003). Determining what students know in real time, not geologic time, in large classes. *Geological Society of America Abstracts with Program*, 34(7), 440.

1999

Emery, S., Fies, C.H., Hester, E., McClusky, J. (1999). Unexpected anti-Markovnikov addition to 1-methoxy-1,3-cyclohexadiene. *Journal of Organic Chemistry*, 64(11), 3788-3789.

Publications, Not Peer-Reviewed/Refereed

2024

Fies, C.H., Ewoldt, K. (2024). Technology Can? The Case of English Learners with Learning Disabilities/La tecnología puede? Es caso de los estudiantes de inglés con dificultades de aprendizaje. In Javier Morales (Ed.), *Parents Ask/Low Padres Preguntan. ISSU*. https://issuu.com/lospadrespreguntan/docs/submitted_parentsaskspring_2024.1

2021

Fies, C.H., Packham, C., Fuller, L.L., Drozdov, D., Schlegel, E.M., Bayless, A.J., Roming, P. (2021). Broadening Astronomy Education through Professional Development. *Research Notes of the American Astronomical Society*.

2020

Packham, C., Fies, C.H., Fuller, L.L., Drozdov, D., Schlegel, E.M., Roming, P., Bayless, A.J. (2020). Using Astronomy to Enhance STEM Education in Community Schools. (1st ed., vol. 52). *Bulletin of the American Astronomical Society*.

2014

Fies, C.H., Merchant, B., Splitek, D.F. (2014). Caring, Collaborating & Integrating. In Cindy Simerly (Eds.), *On The Move* (vol. 8, pp. 44-46). Military Child Education Coalition (MCEC). www.MilitaryChild.org

2006

Fies, C.H. (2006). Mathematical patterns. In S. Kimball & M. Hudson (Eds.), *Diversity in Thinking and Research*. Pearson Custom Publishing.

2003

Fies, C.H. (2003). On the nature of mathematics. In M. Martinello, G. E. Cook, L. T. Woodson and S. B. Kimball (Eds.), *Modes of Inquiry: Voices of Scholars Across the Fields of Study*. Mason, OH: Thomson Learning.

Fies, C.H. (2003). Electricity, Magnetism, and Electromagnetism. In D. Mason, K. C. Mittag & S. E. Taylor (Eds.), *Integrating Mathematics, Science, and Technology: A Skill-Building Approach* (pp. 82-100). Boston, MA: Allyn & Bacon.

Grants, Contracts and Sub-awards

2020

Fies, C. H., "Subaward for NASA proposal by Space Telescope Science Institute"
Sponsored by National Aeronautics & Space Administration (NASA),
\$163,921.00. (October 1, 2015 - September 30, 2020).

2018

Fies, C. H., "CAST Tech Faculty in Residence Contract" Sponsored by San Antonio
Foundation for Excellence in Education INC. d.b.a. SAISD Foundation,
\$124,220.00. (July 1, 2017 - June 30, 2018).
Enriquez, R., Fies, C. H., Henkin, R. L., Vince, A. S., & Kulhanek, J., "The San Antonio
Pathway of the Health Professions," Sponsored by U.S. Department of Health and
Human Services, Federal, \$1,856,889.00. (September 1, 2015 - August 31, 2018).

2014

Fies, C. H., Sharif, H., Dimitriu, D., Kulhanek, J., Mullendore, G., & Xie, H., "Climate
Change Communication: Engineering, Environmental Science, and Education,"
Sponsored by NASA, \$643,243.00. (2011 - September 2014).

2012

Fies, C. H., Quarles, J. P., & Rashed-Ali, H. M., "Augmented Reality," Sponsored by
CPS-TSERI, \$155,000.00. (2010 - 2012).

2011

Fies, C. H., Ackley, S., & Xie, H., "Primary Grant NASA NNX08AQ87G, Antarctic Sea
Ice Thickness from Space," Sponsored by NASA Supplement for Education,
\$29,919.00. (June 3, 2008 - June 2, 2011).

2010

Fies, C. H., & Langman, J., "Applying SimLETS: Examining technology effects on
ELLs' access to high school science," Sponsored by ATE, \$5,000.00. (2010).
Fies, C. H., Lichtenstein, M., & Sass, D., "Science Partnerships to Adapt Research for
K-5 Students (SPARKS)," Sponsored by SALSU, \$50,000.00. (2010).
Fies, C. H., & Hotchkiss, D., "Virtual World Collaboration Across UT Institutions -
UTHSCSA and UTSA," Sponsored by UT System, \$8,180.00. (2010).

2009

Fies, C. H., & Langman, J., "Professional Development for Elementary School Teachers - EC-5 STEM Initiative," Sponsored by Brackenridge Foundation, \$67,682.00. (2009).

Fies, C. H., "UTSA Core Value Initiative: Technology - Second Life Virtual Campus," Sponsored by The University of Texas at San Antonio, \$9,184.00. (2009).

2008

Fies, C. H., & Thornton, J., "Professional Development for Elementary School Teachers (Mathematics/Science)," Sponsored by Brackenridge Foundation, \$59,256.00. (2008).

Fies, C. H., Cassill, A., & Vinal, W., "San Antonio Mathematics and Science Education Partnership," Sponsored by NSF: Math and Science Partnership, \$300,000.00. (2008).

2007

Fies, C. H., Pate, E., Cortez, M., Moseley, C., Ollerenshaw, J., Cuero, K., Crim, C., Bilica, K., & Steinmetz, L., "Inquiring about Inquiry: Nine individuals taking action collectively," Sponsored by Academy for Teacher Excellence, \$1,000.00. (2007).

2006

Fies, C. H., & Langman, J., "Developing Technology Supported Inquiry Science Curricula for Language Minority and Low Income Learners," Sponsored by Academy for Teacher Excellence, \$4,200.00. (2006).

Fies, C. H., & Green, M., "Picture This! An Investigation of Online Science Professional Development Using Science Trade Books," Sponsored by Academy for Teacher Excellence, \$4,200.00. (2006).

2005

Fies, C. H., & Ollerenshaw, J., "Changing Attitudes and Beliefs: Inquiry-based Learning and Metacognitive Practice," Sponsored by Academy for Teacher Excellence, \$1,000.00. (2005).

Fies, C. H., & Langman, J., "Technology mediated science inquiry: Moving from everyday to classroom science, moving from native language to English," Sponsored by Academy for Teacher Excellence, \$900.00. (2005).

Fies, C. H., "Wireless Networks in Diverse Learning Communities, funded by Texas Instruments," Sponsored by Texas Instruments - Navigator Seed Grant, \$12,000.00. (2005).

2004

Fies, C. H., "Electronic Response Systems - Social Constructivist Tools," Sponsored by Academy for Teacher Excellence, \$1,000.00. (2004).

2003

Fies, C. H., & McGee, P., "Online Physical Science course for the UT TeleCampus," Sponsored by The University of Texas TeleCampus (UTTC), \$12,745.00. (2003).

Presentations, Peer-Reviewed/Refereed

2023

Packham, C., Gaskin, J., O'Connell, W. M., & Fies, C. H., "Advancing IDEA (Inclusion, Diversity, Equity, Accessibility) In Astrophysics Education," AAS2023. (January 2023).

2022

Roush, A., Fies, C. H., Packham, C., & Burtscher, L., "Contrasting In-Person to Virtual Conference & Teaching Emission Footprints," IR2022. (2022).

2021

Halder, S., & Fies, C. H., "Fostering self-efficacy: Astronomy education professional development," ESERA 2021, European Science Education Research Association, Virtual. (September 2021).

Tekin, S., Packham, C., & Fies, C. H., "Teaching Philosophy and Science of Space Exploration," ASP2021, Astronomical Society of the Pacific, online. (2021).

Fies, C. H., & Packham, C., "Technology to Scale Up Diversity in K-12 Astronomy Education," ASP2021, Astronomical Society of the Pacific, online. (2021).

Packham, C., Fies, C. H., Fuller, L. L., Drozdov, D., Schlegel, E. M., Roming, P., & Bayless, A. J., "Using Astronomy to Enhance STEM Education in Community Schools," AAS 236, American Astronomical Society. (January 2021).

2020

Fies, C. H., & Packham, C., "Interdisciplinary Teams for Teacher Professional Development," ASP2020, Astronomical Society of the Pacific. (December 5, 2020).

2019

Kulhanek, J., Shaeffer, R., & Fies, C. H., "Curriculum Alignment - It's hard work, but someone has to do it," NISTS2019, Atlanta, GA. (February 2019).

2018

DelliCarpini, M., Langman, J., Fies, C. H., Flores, B. B., & Claeys, L., "Creating Educational Opportunity: Creativity in Teacher Education through mutually beneficial school/university partnerships," 98th Annual Conference of the Association of Teacher Educators, Association of Teacher Education, Las Vegas, NV. (2018).

DelliCarpini, M., Langman, J., Flores, B. B., Fies, C. H., & Claeys, L., "Creating Educational Opportunities for ELLs Through Mutually Beneficial School-University Partnerships," TESOL 2018 International Convention & English Language Expo, Chicago, IL. (March 30, 2018).

2017

Kulhanek, J., Fies, C. H., & Balderrama, D., "Building Institutional Capacity for Innovative Transfer Initiatives," NISTSCON2017, National Institute for the Study of Transfer Students, Atlanta, GA. (2017).

2016

Fies, C. H., "3D AGILE-PBL," Innovations in Online Learning, San Antonio, TX. (May 25, 2016).

Kulhanek, J., Fies, C. H., & Cadenas, C. C., "Transfer Academy 2.0," 14th Annual NISTS Conference (NISTSCON2016), National Institute for the Study of Transfer Students, Atlanta, GA. (February 5, 2016).

2015

Kulhanek, J., & Fies, C. H., "Improving the Transfer Experience: The Transfer Academy for Tomorrow's Engineers," SMTI/NSEC 2015, Association of Public and Land-grant Universities, New Orleans, LA. (June 2015).

Dessouky, S., Sharif, H. O., Fies, C. H., Kulhanek, J., & Xie, H., "Integrating Undergraduate Minority Students as Effective Climate Change Communicators," 7th Conference on Understanding Interventions That Broaden Participation in Science Careers, San Diego, CA. (May 2015).

Kulhanek, J., & Fies, C. H., "Transfer Academy for Tomorrow's Engineers (TATE) - What Do the Summative Data Say?," 13th Annual NISTS Conference (NISTSCON2015), National Institute for the Study of Transfer Students (NISTS), Atlanta, GA. (February 5, 2015).

Fies, C. H., "STEM Assessment Practice: Summative, Formative, and everything in between," American Society for Engineering Education - Gulf Southwest (ASEE-GSW) Annual Conference, ASEE, San Antonio. (March 26, 2015).

2014

Kulhanek, J., & Fies, C. H., "Transfer Academy for Tomorrow's Engineers (TATE)," 12th Annual NISTS Conference (NISTSCON2014), National Institute for the Study of Transfer Students (NISTS), Atlanta, GA. (February 2014).

2013

Fies, C. H., & Guven, U., "Peace Education: Comparison of Peace Education in Turkey and Texas," PJSA 2013 Conference, Peace & Justice Studies Association (PJSA), Waterloo, Ontario, Canada. (October 2013).

- Zhou, H., & Fies, C. H., "Digital Devices: "Digital Native" Parents and Children," Innovation in Online Learning (IOL), UT System, San Antonio. (May 2013).
- Almusaad, H. R., & Fies, C. H., "Second Life as a supportive learning environment to enhance understanding target cultures," Innovation in Online Learning (IOL), UT System, San Antonio. (May 2013).
- Fies, C. H., Quarles, J. P., Rashed-Ali, H. M., & Dancer, D., "Teacher Dispositions toward Augmented Reality (AR)," Society for Information Technology and Teacher Education (SITE), New Orleans. (March 28, 2013).

2012

- Fies, C. H., Ford, R., & Mason, D., "Clip Clues for Chemistry," Conference for the Advancement of Science Teaching (CAST), Science Teachers Association of Texas, Corpus Christi, TX. (November 8, 2012).
- Romero, L., Langman, J., & Fies, C. H., "Applying SimLETS: Examining technology effects on ELLs access to high school English science discourse," TexFlec, Austin, TX. (2012).

2011

- Langman, J., & Fies, C. H., "Students' Perception of Technology Infused High School Biology," Educational Research Association (SERA), San Antonio, TX. (February 2011).
- Langman, J., & Fies, C. H., Co-Organizers, Symposium on Perceptions and Practices of Technology-Infused STEM Education for Diverse Learners, Southwest Educational Research Association (SERA), San Antonio, TX. (February 2011).

2010

- Robinson, D., Villareal, T., Fies, C. H., Dunn, J., & De Leon, L., "UT System Panel: Past and Future Projects using Second Life," Undergraduate Conference, Second Life (virtual world). (June 17, 2010).
- Guerra, M., Fies, C. H., Sanchez, J., Gutierrez, S., & Jones, S., "An Entire Statewide University System Goes Virtual," Virtual World Best Practices in Education (VWBPE), Second Life (virtual world). (March 12, 2010).

2009

- Langman, J., & Fies, C. H., "Engagement through technology: Supporting flow in science interactions among ELLs," American Association for Applied Linguistics (AAAL) 2009 Conference, Denver, CO. (March 2009).

2008

- Fies, C. H., "Tech Support: Learning to Teach with Technology," International Conference on Technology in Collegiate Mathematics (ICTCM), San Antonio, TX. (March 2008).

- Mittag, K., & Fies, C. H., "Various Ideas to Integrate Mathematics, Science and Technology in the Classroom," International Conference on Technology in Collegiate Mathematics (ICTCM), San Antonio, TX. (March 2008).
- Fies, C. H., & Mason, D., "ACT2 Presents: Clip Clues," Conference for the Advancement of Science Teaching (CAST), Ft. Worth, TX. (November 2008).
- Bilica, K., Fies, C. H., & Martin, N., "Excavating Complexity: Scientific Literacy and the Texas Assessment of Knowledge & Skills (TAKS)," Southwest Educational Research Association (SERA), New Orleans, LA. (February 2008).

2007

- Mason, D., & Fies, C. H., "ACT2 Presents: Clipping along: Modeling 2-D and 3-D Bonding Patterns," Conference for the Advancement of Science Teaching (CAST), Austin, TX. (November 2007).
- Fies, C. H., Bilica, K., & Martin, N., "Decoding the TAKS," Sixth Annual San Antonio Science and Mathematics Saturday, San Antonio, TX. (October 2007).
- Fies, C. H., & Ollerenshaw, J., "Inquiry practice: Self-study as a model of inquiry," Southwest Educational Research Association (SERA), San Antonio, TX. (February 2007).
- Fies, C. H., & Langman, J., "Technology-mediated science inquiry with English language learners," Texas Association for Bilingual Education (TABE), San Antonio, TX. (October 2007).
- Fies, C. H., "Developing Online Jigsaw Science Courses," Innovations in Online Learning (IOL), Austin, TX. (May 2007).

2006

- Fies, C. H., "Dialogue or monologue? A framework for technology supported classroom communications," American Educational Research Association (AERA), San Francisco, CA. (April 2006).
- Fies, C. H., "Dialogue or monologue? A framework for technology supported classroom communications," Southwest Educational Research Association (SERA), Austin, TX. (February 2006).

2005

- Fies, C. H., "Active learning technologies: The case of Classroom Response Systems," School Science and Mathematics Association (SSMA) 2005 Annual Convention, Ft. Worth, TX. (November 2005).
- Fies, C. H., "Classroom Response Systems: myth and realities," 4th Annual San Antonio Science and Mathematics Saturday, San Antonio, TX. (October 2005).

2003

- Fies, C. H., "Constructivist learning in large course sections through the use of Personal Response Systems (PRS)," South Central Regional Technology in Education Consortium (SRTEC), Corpus Christi, TX. (2003).

1999

McClusky, J., Emery, S., Fies, C. H., & Hester, E., "Remarkable electrophilic addition to 1-methoxy-1,3-cyclohexadiene," 218th National Meeting of the American Chemical Society (ACS), New Orleans. (August 24, 1999).

Mason, D. S., & Fies, C. H., "Identifying persistent student misconceptions in second-semester general chemistry courses," 72nd Annual Conference of the National Association for Research in Science Teaching (NARST), Boston, MA. (March 1999).

1998

McClusky, J., Emery, S., & Fies, C. H., "Acid catalyzed addition of methanol to 1-methoxy-1,3-cyclohexadiene: what about carbocation stability?," 216th National Meeting of the American Chemical Society (ACS), Boston. (August 1998).

Invited Talks

2017

Fies, C. H., "UTSA Virtual Campus," UTSA Academy of Distinguished Teaching Scholars Forum, UTSA, San Antonio, TX. (October 2017).

2016

Dietrich, G. B., Harrison, K., Firmin, L. C., & Fies, C. H., "UTSA Education Panel," Alamo ACE Conference, AFCEA, San Antonio. (December 6, 2016).

Fies, C. H., "Community Partnership," 2016 VA Mental Health Summit, VA, San Antonio, TX. (July 28, 2016).

2012

Fies, C. H., "Responding to the Cultural Commons," The Academy for the Cultural Commons, San Antonio, TX. (June 2012).

2010

Langman, J., & Fies, C. H., "U.S. Challenges & Solutions in Science and Technology Education: A View from the Margins: Educational experiences in South Texas. Roundtable Discussion," Meet the Future, Science & Technology International Summit 2010, Den Haag, The Netherlands. (November 2010).

2009

Fies, C. H., "TejanoTech: Shaping the identity of a virtual campus," San Antonio Virtual Environments in Education and Training (SAVE-ET), San Antonio, TX. (September 2009).

Presentations - Not Peer-Reviewed/Refereed

2021

Fies, C. H., Packham, C., Eakes, A., & Trobough, I., "Translating Astronomy Teacher Professional Development into Classroom Practice," 2021 Alamo STEM Ecosystem Conference, Alamo STEM Ecosystem, online. (April 2021).

2020

Fies, C. H., Fuller, L., & Bayless, A., "Astronomy in the Classroom," 2020 Alamo STEM Ecosystem Conference, Alamo STEM Ecosystem, San Antonio. (2020).

Fies, C. H., & Gold, K., "Wait ... You want me to teach what?," 2020 Alamo STEM Ecosystem Conference, Alamo STEM Ecosystem, San Antonio. (2020).

2019

Fies, C. H. (Presenter), & DeJong, S. (Presenter), "Physikexperiment im Unterricht," American Association of Teachers of German Fall 2019, American Association of Teachers of German, Temple, TX. (September 14, 2019).

2016

Fies, C. H., "Military Families," TRC ASSETs Symposium, UTSA, San Antonio, TX. (September 10, 2016).

2013

Fies, C. H., & Langman, J., "Teacher Talk: Professional Development with Elementary Teachers," International Symposium for Campus Viviente in STEM Education, Campus Viviente, New Braunfels. (October 2013).

2010

Fies, C. H., "UTSA in Second Life," San Antonio Virtual Environments in Education and Training (SAVE-ET), San Antonio, TX. (September 2010).

2009

Fies, C. H., "Interdisciplinary Education in the real and virtual world," KIRA Interdisciplinary Science Seminar, Second Life (virtual world). (July 30, 2009).

2008

Langman, J., & Fies, C. H., "Learning through interactions: The power of participatory simulations," 2008 Academy for Teacher Excellence Research Symposium, San Antonio, TX. (November 2008).

2006

Fies, C. H., "Creating inquiring minds: Discovering the disciplines," Teaching, Excellence, Advancement, and Mentoring (TEAM) Center, San Antonio, TX. (April 2006).

Fies, C. H., "Making connections to everyday contexts," Academy for Teacher Excellence (ATE) Faculty Development, San Antonio, TX. (March 2006).

2005

Fies, C. H., "What do they add to an active learning environment?," Academy for Teacher Excellence Research Symposium, San Antonio, TX. (November 2005).

Fies, C. H., "Supporting science learning in diverse settings," TI Seed Grant Symposium, Dallas, TX. (August 2005).

2004

Fies, C. H., "Electronic Response Systems," The University of Texas at San Antonio, Teaching and Learning Center, San Antonio, TX. (October 2004).

Fies, C. H., "Distance education," The University of Texas at San Antonio, Teaching and Learning Center, San Antonio, TX. (May 2004).

Fies, C. H., "Constructivist use of Electronic Response Systems," Institute for Connecting Teachers and Technology - KLRN and TechConnect, San Antonio, TX. (September 2004).

TEACHING

Teaching Interests

Science, Technology, Engineering, and Mathematics (STEM) Education;
Instructional Technologies

Courses Taught

Graduate and Doctoral

Graduate Courses at UTSA

Doctor of Philosophy Degree in Interdisciplinary Learning and Teaching:

ILR 7893: Directed Doctoral Research

ILT 7013: Overview of Research Design for Instructional Inquiry

ILT 7143: Internship (Research & Teaching)

ILT 7733: Evaluation of Research

IST 7893: Directed Doctoral Research

ILT 7981: Doctoral Dissertation

ILT 7983: Doctoral Dissertation

IST 7013: Field Research in IST

IST 7043: Technology and Global Learning

Master of Arts Degree in Education:

C&I 5923: Mentoring (blended, including Virtual Worlds)

C&I 6303: Advanced Methods in Subject-Matter Fields: Mathematics and Science (on campus)
EDU 6983: Master's Thesis
IST 5011: Technical Skills - Animation (blended)
IST 5303: Technology in Curriculum and Instruction (blended)
IST 5323: Concepts of Teaching and Learning (blended, including Virtual Worlds)
IST 5343: Instructional Design Theory (blended, including Virtual Worlds)
IST 5363: Distance Learning and Teaching (blended, including Virtual Worlds)
IST 5383: Technology Training and Management in Educational Systems (blended)
IST 5703: Technology and Learning Cultures (blended, including Virtual Worlds; and fully online)
IST 5883: Digital Storytelling (blended, and online)
IST 6103: Virtual Learning and Teaching (blended, including Virtual Worlds; and fully online)
IST 6353: Multimedia (blended, including Virtual Worlds)
IST 6513: Emergent Technologies in Education (blended)
IST 6951: Independent Study: Technology Skill Development (on campus)
IST 6983: Master's Thesis in IST
IST 6953: Independent Study: Virtual Worlds (blended, including Virtual Worlds)
IST 6973: Special Problems: Simulations in Mathematics and Science (blended)
ALT 6223: Distance and Blended Learning in Adult Education and Human Resource Development (blended, including Virtual Worlds)

Master of Arts Degree in Learning, Design, and Technology (LDT)
LDT 5383: Technology for Training and Professional Development.
LDT 5703: Technology and Learning Cultures.
LDT 5883: Digital Storytelling and Learning
LDT 6003: Research in Learning, Design, and Technology

Master of Science in Chemistry:
CHE 6983: Master's Thesis
CHE 6992: Directed Research
CHE 6993: Directed Research

Undergraduate

Undergraduate Courses at UTSA

C&I 4203: Models of Teaching in the Content Areas of the Secondary School: Science (on campus)
COR 1203: Freshman Seminar (blended, including Virtual Worlds)
IDS 3203/2403: Physical Science (on campus and fully online)
IDS 3003: Science and Humanities (on campus and blended, including Virtual Worlds)
IDS 3201: Advanced Physical Science Laboratory (on campus and fully online)
IDS 3213: Earth and Life Science (on campus)

IDS 3234: Investigations in Physical Science (online)
IDS 4913: Independent Study
UTE 3203: Knowing and Learning
UTE 4203: Project-based Instruction

Undergraduate Courses at City Colleges of Chicago, European Division
ENVST 101: Man and Environment I (online)
ENVT 107: Environmental Geology (online)

Undergraduate Courses at University of Maryland University College, European Division
BIOL 101: Concepts of Biology (on campus)
BIOL 102: Laboratory in Biology (on campus)
BIOL 160: Human Biology (on campus)

Directed Student Learning

Dissertation Committee Chair, "SEL-E: Social Emotional Learning Intervention to Enhance Pre-service Teachers' Empathy Development in a Technology-Mediated Learning Space." (2020 - 2022).

Advised: Shreyashi Halder, Interdisciplinary Learning and Teaching (Ph.D.), UTSA

Dissertation Committee Chair, "The Pandemic's Impact on Education: How Does Learning and Teaching Anatomy Online Compare to Face-to-Face Instruction?" Completed, (2020 - December 2021).

Advised: Anthony Skaggs, Interdisciplinary Learning and Teaching (Ph.D.), UTSA

Dissertation Committee Member, "Teachers as Researchers: A Quantitative Study of a Research-focused Professional Development Program on Teacher Professional Agency." Completed, (2019 - 2020).

Advised: Rosemary Riggs, Educational Leadership (Ph.D.), Texas State University

Master's Thesis Committee Chair, "Chinese Culture in Virtual Spaces 2019." (2019 - 2020).

Advised: Wei Yan

Dissertation Committee Chair, "Learning in Virtual Worlds." (2016 - May 2020).

Advised: Almusaad Haifa

Master's Thesis Committee Chair, "Student Understandings of Topics in General Chemistry II." (2018 - April 2020).

Advised: Sotheara Houy

Dissertation Committee Member, "Technology-mediated Music Education." In-Process, (2017 - 2019).

Advised: Ruben Rodriguez

Dissertation Committee Chair, "Robotics: The development of the academic identity of the Latina/o Bilingual Elementary Learner." Completed, (2015 - 2018).

Advised: Adrienne Guillen

Dissertation Committee Member, "Optogenetic M.E.D: Enhancing Optogenetic Education." (2015 - 2016).

Advised: Emmanuel Michaelides

Dissertation Committee Chair, "Utilizing structured online discussion as course work component to promote critical thinking in higher education." Completed, (December 2014 - December 2015).

Advised: Hong Zhou

Dissertation Committee Chair, "Robotics: The Impact of Storytelling." Proposal, (2013 - 2014).

Advised: Andrew Schuetze

Dissertation Committee Member, "Politics in the Curriculum." Completed, (2012 - 2013).

Advised: Debra Root

Dissertation Committee Chair, "Mobile Learning In Higher Education." Completed, (2011 - 2012).

Advised: Lucretia Fraga

Honors Thesis, "Why Girls Are Behind in Math and Science and What Teachers Can Do to Help." Completed, (2011 - 2012).

Advised: Alexandra Villalobos

Honors Thesis, "Literacy in the Content Areas." Completed, (2011 - 2012).

Advised: Jessica Sigl

Master's Thesis Committee Member, "Usability of Mobile Phone Augmented Reality in Educational Simulation." Completed, (2011 - 2012).

Advised: Ferrer Vicente

Master's Thesis Committee Chair, "Peace Education: Comparison of Turkey's and Texas' primary school curricula." Completed, (2010 - 2011).

Advised: Ufuk Guven

Dissertation Committee Member, "Classroom Response Systems: Using Task-Technology Fit to Explore Impact Potential." Completed, (2009 - 2010).
 Advised: Kenneth Jones

Master's Thesis Committee Chair, "Professional Development Strategies to Integrate Technology into Writing Instruction." Completed, (2009).
 Advised: Jacob Sanchez

Master's Thesis Committee Member, "Evaluation of the Garden Mosaics Program for Teaching Science Literacy through an Environmental Approach." Completed, (2005 - 2006).
 Advised: Sonia Cabrera

Awards, Honors, and Biographical Listings

2022	UTSA Community Impact Award NOMINATION, UTSA
2015	UT Regents Outstanding Teaching Award NOMINATION, UT
2014	UT Regents Outstanding Teaching Award NOMINATION, UT
2011	Tenured and Tenure-Track Excellence in Community Service Award, College of Education and Human Development, Distinguished Achievement Awards 2011
2006	Southwest Educational Research Association (SERA) Outstanding Paper Award: Dialogue or Monologue? A Framework for Technology Supported Classroom Communications
2005	Academy for Teacher Excellence (ATE) Doctoral Fellowship, University of Texas at San Antonio
2005	Student recognition for excellence, UTSA Honors Alliance
2004	Adjunct Presidential Award for Excellence in Teaching, University of Texas at San Antonio
2001	UT Austin Graduate Fellow, University of Texas at Austin