

Melanie Kinskey, Ph.D.

Texas A&M University
363 Harrington Tower
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EDUCATION

University of South Florida	Ph.D., Curriculum and Instruction	2020
University of South Florida	Graduate certificate in Qualitative Research	2020
Saint Leo University	M.Ed., Educational Leadership	2011
Saint Leo University	B.A., Elementary Education	2007

ACADEMIC POSITIONS

Fall 2024 - present	Assistant Professor of Science Education, Texas A&M University, Teaching Learning and Culture <ul style="list-style-type: none">TEFB 413: Science in Elementary Schools (Undergraduate)
Fall 2020 – Spring 2024	Assistant Professor of Science Education, Sam Houston State University, School of Teaching and Learning <ul style="list-style-type: none">CIEE 3335: Science Instruction in Elementary Grades (Undergraduate)CIEE 4377: Early Adolescent Learners (Undergraduate)CIEE 3374: Human Growth and Learning (undergraduate)CIED 5371: Applied Research in Education (Graduate)CIED 5383: Integrating Current Technology in Teaching (Graduate)CIED 5384: Curricular Trends for Classroom Teaching (Graduate)CIED 7349: Curriculum Studies (Doctoral)
Summer 2020	Adjunct Professor, University of South Florida (St. Petersburg), College of Education <ul style="list-style-type: none">SCE 6836: Middle Grades Earth Space Science
Fall 2017–Spring 2020	Graduate Teaching / Research Assistant, University of South Florida (Tampa), College of Education <ul style="list-style-type: none">SCE 4310: Teaching Elementary School ScienceEDE 4941: Elementary Education Internship Level IEDE 4942: Elementary Education Internship Level IIEDE 4943: Elementary Education Internship Level IIIEDE 4940: Elementary Education Internship: Final InternshipEDE 4504: Creating and Differentiating Learning EnvironmentsEDE 4301: Instructional Planning for Diverse Learners

K-12 TEACHING POSITIONS

Oct. 2015 - June 2016	Grade 4 Science and ELA Teacher, Hillsborough County Public Schools, Tampa, FL
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Aug. – Oct. 2015 Grade 1 Teacher (All subjects), Hillsborough County Public Schools, Tampa, FL

Aug. 2011 - July 2014 Grade 5 (Science) Teacher and STEM Instructional Coach, District School Board of Pasco County, Land O’Lakes, FL

Aug. 2007 -Aug. 2011 Grade 4 and Grade 5 Teacher (All subjects), Learning Focused Strategies Instructional Coach, District School Board of Pasco County, Land O’Lakes, FL

EDUCATIONAL POLICY POSITIONS

July 2014 - July 2015 Program Development Specialist, Division for Educator Quality, Florida Department of Education, Tallahassee, FL

SCHOLARSHIP ACTIVITIES

REFEREED JOURNAL PUBLICATIONS

Kinskey, M. (2025). Leveraging a community of practice to prepare elementary preservice teachers for instruction with socioscientific issues. *Research in Science Education*. doi: <https://doi.org/10.1007/s11165-025-10242-4>
(IF: 2.2)

Kinskey, M. (Accepted). Elementary teacher candidates’ views of science instruction after engaging with interdisciplinary STEM materials. *Journal of College Science Teaching*.

Kinskey, M., & Zeidler, D. (2024). Elementary preservice teachers' pedagogical decisions about socioscientific issues instruction. *Journal of Research in Science Teaching*. <https://doi.org/10.1002/tea.21932>
(IF: 3.6).

Kinskey, M., & Newton, M. (2024). Teacher candidates’ views of future SSI instruction: a multiple case study. *Disciplinary and Interdisciplinary Science Education Research*, 6(1), 8
(IF: 2.0)

Asim, S., Davis, J., Kinskey, M., Lavender, H., Murray, J., Obery, A., Sherwood, C.-A., & Voss, S. (2023). Elementary science teacher educators learning together: Catalyzing change with educative curriculum materials and vignette writing. *Innovations in Science Teacher Education*, 8(3).

Kinskey, M. (2023). The importance of teaching nature of science: Exploring preservice teachers’ views and instructional practice. *Journal of Science Teacher Education*, 34(3), 307-327.
(IF:2.1)

Zeidler, D., Ruzek, M., & Kinskey, M. (2022). A “meteor” crashed into our school!. *Science and Children*, 59(3), 64-68.

Kinskey, M., Ruzek, M., & Zeidler, D. L. (2021). Facilitating an elementary school-wide immersive academic event. *Innovations in Science Teacher Education*, 6(4).

Kinskey, M., & Callahan, B. E. (2022). The influences of socioscientific issues on general science teaching self-efficacy. *Research in Science Education*, 52(5), 1451-1465. doi: 10.1007/s11165-021-09991-9
IF: 2.3)

Kinskey, M., & Zeidler, D. (2021). Elementary preservice teachers' challenges in designing and implementing socioscientific issues-based lessons. *Journal of Science Teacher Education*, 32(3), 350-372.
(IF: 2.1)

Kinskey, M. (2020). Elementary preservice teachers use of speaking, listening, and writing skills to understand the importance of nature of science instruction. *Journal of College Science Teaching*, 49(5), 66-73.

Kinskey, M. (2020). Girls in STEM: Using images to improve female student's interest and motivation in science, technology, engineering, and mathematics. *Science and Children*, 57(7), 56 - 59.

Kinskey, M. (2018). Using action research to improve science teaching self-efficacy. *International Journal of Science Education* 40(15), 1795-1811. doi: 10.1080/09500693.2018.150289
(IF 2.2),

REFEREED BOOK CHAPTERS

Kinskey, M. (In Press, 2023) Professional Learning and Taking Risks: How Understanding the Nature of Science Influences Instruction, in S. Jeong, L. Bryan, D. Tippins & C. Sexton (Eds.), *Navigating the challenges of elementary science teaching and learning: Using case-based pedagogy to understand dilemmas of practice*. Springer Nature: Cham, Switzerland. doi: 10.1007/978-3-031-33418-4_23

Newton, M. H., & Kinskey, M. (2021). The Association Between Course Context and Preservice Teachers' Perceptions of SSI Instruction. In *Socioscientific Issues-Based Instruction for Scientific Literacy Development* (pp. 192-222). IGI Global.

BOOK REVIEWS

Kinskey, M. (2018). A book review of Using Think-Aloud Interviews and Cognitive Labs. *The Qualitative Researcher*, 23(3).

RESEARCH MANUSCRIPTS UNDER REVIEW

EXTERNAL GRANT ACTIVITY

Submitted, Under Review

Grant #: 2439535

Role on Project: Principal Investigator
Name of Funding Organization: National Science Foundation
Title of Project: Collaborative Research: Comparing Mixed-Reality Simulations and Peer Teaching to Prepare Preservice STEM Teachers
Amount Requested: \$274,993
Date submitted: July 15,2024

Unfunded

Grant #: 2337706
Role on Project: Principal Investigator
Name of Funding Organization: National Science Foundation
Title of Project: CAREER: Preparing Elementary Teacher Candidates to Facilitate Socioscientific Issues-Based Instruction
Amount Requested: \$550,216
Date submitted: July 21, 2023

Grant #: 2236066
Role on Project: Co-Principal Investigator
Name of Funding Organization: National Science Foundation
Title of Project: Collaborative Research: Preparing STEM Teachers to Facilitate Culturally Relevant Instruction of Socioscientific Issues (CRI-SSI) using Mixed-Reality Simulations
Amount Requested: \$308,083
Date Submitted: July 20, 2022

Grant #: 2239370
Role on Project: Principal Investigator
Name of Funding Organization: National Science Foundation
Title of Project: CAREER: Preparing Elementary Teacher Candidates to Facilitate Culturally Relevant Socioscientific Issues-Based Instruction
Amount Requested: \$490,661
Date Submitted: July 27, 2022

Grant #: 2143322
Role on Project: Principal Investigator
Name of Funding Organization: National Science Foundation
Title of Project: CAREER: Preparing Elementary Educators for Socioscientific Issues-Focused Literacy Instruction
Amount Requested: \$564,673
Date Submitted: July 23, 2021

INTERNAL GRANT ACTIVITY

Awarded

Grant #: 29068
Role on Project: Principal Investigator
Name of Funding Organization: Sam Houston State University
Amount Awarded: \$2,119

Title of Project: Preparing Elementary Preservice Teachers to Facilitate Literacy-Focused STEM Lessons

Period of Grant Award: May 1, 2021 – April 30, 2022

Grant #: 140100-422005-710-10

Role on Project: Principal Investigator

Name of Funding Organization: Odyssey Grant Program at Sam Houston State University

Title of Project: Active Learning in Hawaii

Amount Awarded: \$2,000

Period of Grant Award: December, 2021

REFEREED CONFERENCE PRESENTATIONS

National/International

Kinskey, M. (2025, 17 January). *Socioscientific Reasoning of Middle Grades STEM Teachers in an Online Content Course*, presented at the annual meeting for the Association for Science Teacher Education (ASTE), Long Beach, CA.

Kinskey, M. (2023, April). *Middle Grades STEM Teachers' Socioscientific Perspective Taking Concerning Socioscientific Issues*, presented at the annual meeting for NARST: A global organization for improving science education through research, Chicago, IL.

Kinskey, M. (2023, April). *Literacy-Based STEM Lessons to Improve Elementary Teacher Candidates' Views of Science Instruction*, presented at the annual meeting for the American Educational Research Association (AERA), Chicago, IL.

Kinskey, M. & Newton, M. (2023, January). *Teacher Candidates' Views of Socioscientific Issues-Based Instruction in K-12 Classrooms*, presented at the annual meeting for the Association for Science Teacher Education (ASTE), Salt Lake City, UT.

Sherwood, C. Kinskey, M. & Voss, S. (2023, January). *Science Teacher Educator Learning Through Educative Curriculum Materials*, presented at the annual meeting for the Association for Science Teacher Education (ASTE), Salt Lake City, UT.

Borowczak, M., Burrows, A., & Kinskey, M. (2023, January). *Review of Lesson Plan Creation and Implementation of Integrated STEM Concepts*, presented at the annual meeting for the Association for Science Teacher Education (ASTE), Salt Lake City, UT.

Kinskey, M. & Krause, M. (2022, April). *A Community of Practice for Elementary Teacher Candidates Learning to Enact Socioscientific Issues-Based Instruction*, presented at the annual meeting for the American Educational Research Association (AERA), San Diego, CA.

Kinskey, M. & Zeidler, D. L. (2022, March). *Establishing a Community of Practice to Support Elementary Preservice Teachers' Socioscientific Issues-Focused Instruction*, presented at the annual meeting for NARST: A global organization for improving science education through research, Vancouver, British Columbia.

Kinskey, M. (2022, January). Middle Grades STEM Teacher's Engagement With Socioscientific Issues, presented at the annual meeting for the Association for Science Teacher Education (ASTE), Greenville, SC.

Kinskey, M. & Zeidler, D. L. (2021, April). *Instructional Decision-Making for Preservice Teachers' Socioscientific Issues-Based Teaching*, presented at the annual meeting for NARST: A global organization for improving science education through research, Virtual Conference.

Kinskey, M. & Newton, M. (2021, April). *Teacher Candidates' Perceptions of Socioscientific Issues-Based Instruction*, presented at the annual meeting for the American Educational Research Association (AERA), Virtual Conference.

Kinskey, M. (2021, January). *Elementary Preservice Teachers' Nature of Science Rationale* presented at the annual meeting for the Association for Science Teacher Education (ASTE), Virtual Conference.

Kinskey, M. (2020, April). *Understanding the Importance of Nature of Science Through Field-Based Experiences*, accepted to the annual meeting of the American Educational Research Association (AERA), San Francisco, CA. (Conference Cancelled)

Kinskey, M. & Zeidler, D.L. (2020, March). *Elementary Preservice Teachers' Perceptions of Facilitating Socioscientific Issues*, accepted to the annual meeting of the National Association for Research in Science Teaching (NARST), Portland, OR. (Conference Cancelled)

Zeidler, D.L., Herman, B., Kinskey, M., Willis, S., Wickman, K., Mitchell, M., & Applebaum, S. (2020, March). *Identifying Socioscientific Orientations in the Context of Socioscientific Issues*, accepted to the annual meeting of the National Association for Research in Science Teaching (NARST), Portland, OR. (Conference Cancelled)

Kinskey, M. & Zeidler, D.L. (2020, January). *Challenges Experienced by Elementary Preservice Teachers While Facilitating Socioscientific Issues*, presented at the annual meeting of the Association for Science Teacher Education (ASTE), San Antonio, TX.

Zeidler, D.L., Herman, B., Kinskey, M., Willis, S., Wickman, K., Mitchell, M., & Applebaum, S. (2020, January). *Influencing Students' Social and Moral Compassion Through Socioscientific Issues*, presented at the annual meeting of the Association for Science Teacher Education (ASTE), San Antonio, TX.

Kinskey, M. (2019, April). *Preparing Elementary Preservice Teachers to Facilitate Socioscientific Issues Instruction*, presented at the annual meeting of NARST: A worldwide organization for improving science teaching and learning through research, Baltimore, MD.

Kinskey, M. (2019, April). *Using Socioscientific Issues to Improve Elementary Preservice Teacher Self-Efficacy*, presented at the annual meeting of NARST: A worldwide organization for improving science teaching and learning through research, Baltimore, MD.

Zeidler, D.L., Ruzek, M., Kinskey, M., & Burns, K. (2019, January). *Immersive scenarios: Engaging children in authentic inquiry*, presented at the annual meeting of the Association for Science Teacher Education (ASTE), Savannah, GA.

Zeidler, D.L., Appelbaum, S., Mitchell, M., Wikman, K., Nkrumah, T., Willis, S., Kinskey, M., & Lee, E. (2018, March). *Socioscientific Issues: Teaching and Learning in an Evolving Context*, presented at the annual meeting of NARST: A worldwide organization for improving science teaching and learning through research, Atlanta, GA.

Kinskey, M. (2018, January). *Using Action Research to Improve an Elementary Preservice Teacher's Science Self-Efficacy*, presented at the annual meeting of the Association for Science Teacher Education (ASTE), Baltimore, MD.

Zeidler, D.L., Appelbaum, S., Mitchell, M., Wikman, K., Nkrumah, T., Willis, S., Kinskey, M., & Lee, E. (2018, January). *Teaching Socioscientific Issues in an Evolving Context*, presented at the annual meeting of the Association for Science Teacher Education (ASTE), Baltimore, MD.

Regional

Kinskey, M. (2022, October). *Elementary teacher candidates' views of science after engaging with interdisciplinary science lessons*, presented at the annual meeting of the Southeastern Association for Science Teacher Education (SASTE), Gulf Shores, AL

Zeidler, D. L., Kinskey, M., & Ruzek, M. (2021, October). *Immersive Academics: A Wonder-Infused Pedagogy of Sociocultural Scientific Investigations*, presented at the annual meeting for the Southeastern Association for Science Teacher Education (SASTE), Safety Harbor, FL.

Kinskey, M. (2020, October). *Middle Grades Teachers' Engagement with Socioscientific Issues*, presented at the annual meeting of the Southeastern Association for Science Teacher Education (SASTE), Virtual Conference.

Kinskey, M. (2019, October). *Elementary Preservice Teachers Experiences Facilitating Socioscientific Issues*, presented at the annual meeting of the Southeastern Association for Science Teacher Education (SASTE), Carrollton, GA.

Kinskey, M. & Gutierrez, N. (2019, October). *Elementary Preservice Teacher Development and Science Instructional Practice: A Collaborative Effort*, presented at the annual meeting of the Southeastern Association for Science Teacher Education (SASTE), Carrollton, GA.

Kinskey, M. (2018, October). *Preparing Elementary Preservice Teachers to Facilitate Socioscientific Issues*, presented at the annual meeting of the Southeastern Association for Science Teacher Education (SASTE), Birmingham, AL.

Kinskey, M. (2017, October). *The Case of One Elementary Preservice Teacher as She Improves her Science Self-Efficacy*. Paper presented at the Southeastern Association for Science Teacher Education (SASTE), Pensacola Beach, FL.

State/Local

Kerbs, M., Kinskey, M., & Myers, A. (2021). What I Know Now: A Panel of Junior Faculty Discuss the Journey from Graduate Student to Faculty Role. Panel held at the annual meeting for the Consortium of State Organizations for Texas Teacher Education (CSOTTE), San Marcos, TX.

Kinskey, M. (2018, November). *Putting Nature of Science into Practice: Engaging Elementary Preservice Teachers in Nature of Science*, presented at the annual meeting of the Florida Educational Research Association (FERA), St. Petersburg, FL.

KEYNOTE PRESENTATIONS

Kinskey, M. (2023). Socioscientific Issues to Address STEM Educational Reform Efforts. Keynote Address during the Virtual Bi-Annual International Conference on STEM Education, hosted by Kibabii University, Kenya, Africa.

INVITED PRESENTATIONS

Kinskey, M. (2022). STEM Trends and Research. Invited presentation during the Educational Research Methodologies workshop for visiting professors from Thailand, Center for International Education, College of Education, Sam Houston State University.

Kinskey, M. (2022). Past Awardees Seminar: Where my work is now, Invited presentation for the Association for Science Teacher Education's Awards Seminar, virtual.

Kinskey, M. (2021). Fireside Chat with the 2021 Awardees. Panel held at the Association for Science Teacher Education (ASTE) annual meeting, Virtual Conference.

Lee, S. Gamborg, L., Kinskey, M., & Green, K. (2020, January). Graduate Student Luncheon and Business Meeting. Presentation of leadership roles held at the Association for Science Teacher Education (ASTE) annual meeting, San Antonio, TX.

Lee, S. Gamborg, L., Kinskey, M., & Green, K. (2020, January). 3MT- Graduate Student Competition. Professional learning competition held at the Association for Science Teacher Education (ASTE) annual meeting, San Antonio, TX.

Kinskey, M. & Gutierrez, N. (2019). *Collaborating with Science Methods Instructors*. An invited presentation to supervisors in the College of Education, University of South Florida, Tampa, FL.

Kinskey, M. (2019). *Socioscientific Issues in the Elementary Classroom*. An invited presentation to graduate students enrolled in the Current Trends in Science Education course.

Kinskey, M. (2015). *Growth Mindsets in College and University Settings*. An invited presentation during a monthly webinar to deans and directors of educator preparation programs in Florida, Division of Educator Quality, Tallahassee, FL.

WORKSHOPS/PROFESSIONAL DEVELOPMENT

Kinskey, M. & Mutende, R. (2022). STEM Pedagogies. On-going virtual Professional Learning Community facilitator to high school STEM teachers associated with Kibabii University, Kenya, Africa. Center for International Education, College of Education, Sam Houston State University.

Kinskey, M. (2022). Beating Burnout for Teachers and Teacher Educators. Invited presentation during the “Mini in May” workshop for the Association for Science Teacher Education (ASTE) Graduate Student Forum.

Kinskey, M. (2021). Finishing the Dissertation. Workshop held at the Association for Science Teacher Education (ASTE) annual meeting, Virtual Conference.

Lee, S., Gamborg, L., & Kinskey, M. (2020, January). Graduate Student Workshop: Preparing for the Workforce. Roundtable workshop held at the Association for Science Teacher Education (ASTE) annual meeting, San Antonio, TX.

Zeidler, D.L., Ruzek, M., & Kinskey, M. (2018). *Immersive Scenario: The Great Impact*. A workshop presented to elementary and high school faculty at Venice Elementary and Senior High School, Sarasota County, FL.

Kinskey, M. (2015). *Growth Mindset in Physical Education*. A workshop presented to physical education teachers during the Healthy Schools Summer Academy, Orlando, FL.

Willacy, D., Collado, R., & Kinskey, M. (2014). *Mathematical Practices in Career and Technical Education*. A workshop presented to CTE teachers throughout the state of Florida during the CTE conference, Orlando, FL.

Bauer, C., Selph, B., & Kinskey, M. (2014). *FSA Writing Professional Development*. A workshop presented to elementary teachers in Washington County, FL.

HONORS AND AWARDS

2020 Manuscript Award V: Implications of Research for Educational Practice Graduate Student Level, Association for Science Teacher Education (ASTE)

- 2019 Sisters of the Academy (SOTA) Research Bootcamp Scholar (\$1,500 sponsorship), College of Education, University of South Florida
- 2019 Provost's Award for Outstanding Teaching by a Graduate Teaching Assistant (Honorable Mention), University of South Florida

PROFESSIONAL LEADERSHIP AND SERVICE

Service to the Field of Science Education

Editorial Review Board Member

- 2019 - present *Journal of Science Teacher Education*
- 2019 - 2021 *Science & Children*
- 2019 - 2020 *Florida Journal of Educational Research*

Ad Hoc Reviewer

- 2020 *Curriculum and Teaching Dialogue*

Committee Member

- 2022 - 2024 2024 Local Conference Planning Committee, Association for Science Teacher Education (ASTE)
- 2022 - 2026 Awards Committee, Association for Science Teacher Education (ASTE)
- 2022 - 2025 Membership Committee, NARST: A worldwide organization for improving science teaching and learning through research
- 2019 - 2021 Graduate Student Committee, NARST: A worldwide organization for improving science teaching and learning through research
- 2018 - 2020 Membership and Participation Committee, Association for Science Teacher Education (ASTE)
- 2017 - 2020 Awards Committee, National Science Teachers Association (NSTA)

Conference Proposal Reviewer

- On-going NARST: A worldwide organization for improving science teaching and learning through research
Strand 3: Science Teaching — Primary School (Grades preK-6): Characteristics and Strategies; Strand 7: Pre-Service Science Teacher Education; Strand 9: Reflective Practice
- On-going Association for Science Teacher Education (ASTE); Thread: Curriculum, Pedagogy, and Assessment
- On-going American Educational Research Association (AERA); Science Teaching and Learning SIG Strand 7: Pre-Service Science Teacher Education; Division K

Leadership

- 2024 – 2025 Chair, Membership Committee, NARST: A worldwide organization for improving science teaching and learning through research
- 2021 - 2022 President, Southeastern Association for Science Teacher Education (SASTE)
- 2019 - 2020 Vice President, Graduate Student Forum for the Association for Science Teacher Education (ASTE)

SERVICE TO THE UNIVERSITY

Sam Houston University

2021 - 2024 Mentor, First Gen Trailblazer Mentoring Program
2022, 2023 Scorer, SHSU Academic Writing Center

SERVICE TO THE COLLEGE

Sam Houston University

Committee Member

2022 - 2024 Assessment Committee
2022 - 2024 College of Education Faculty Evaluation and Performance
Committee
2020– 2024 Bring ‘em Back Kats Committee
2022– 2024 Learning by Scientific Design
Spring, 2021 Search for the Director of Innovative Partnerships

Volunteer

9/23/2021 Representative, Day on the Hill
1/27/2022, Opportunity Fair at Teacher Education Center
9/2/2021
8/31/2021 Opportunity Fair at The Woodlands Center

SERVICE TO THE DEPARTMENT

Texas A&M University

Committee Member

February 2025 Ph.D. Student Admit Funding Committee
2024 - 2025 Science Education Partner Hire Committee

Sam Houston University

Leadership

2021– 2024 Program Coordinator, Field 3 (Semester 1 YLR)
2022– 2024 Chair, Social Committee

Committee Member

2022 - 2024 DFES Rubric Revision Committee
Fall, 2023 Search for Clinical Assistant Professor of Science and Mathematics
2020 - 2021 Curriculum Committee

Volunteer

2021 - 2024 Pinner, SHSU Pinning Ceremony
2021 - 2022 Representative, Saturday@Sam
2021 - 2022 Scorer, Capstone Portfolio Reviewer

DOCTORAL COMMITTEE SERVICE

Ward, C. (2023). *Increasing Student Success Through Academic Vocabulary Strategies in 5th Grade Science*. Status: Successful Dissertation Defense. Role: Committee Member

ONGOING PROFESSIONAL MEMBERSHIPS

NARST: *A global organization for improving science education through research*
Association for Science Teacher Education (ASTE)
American Educational Research Association (AERA)
Division K
Science Teaching and Learning SIG

Southeast region of the Association for Science Teacher Education (SASTE)
National Science Teachers Association (NSTA)