

KENNETH J. FLEMING, JR.
Department of Educational Psychology
Texas A&M University
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EDUCATION

- Ph.D. Texas A&M University, College Station, TX, May 2017
Program Area: Curriculum & Instruction, emphasis in Science Education
Committee Chairs: Dr. Bugrahan Yalvac and Dr. Carol Stuessy
Dissertation: Authenticity as an Element of Science Exhibit Design
- M.Ed. Texas A&M University, College Station, TX, August 2013
Program Area: Curriculum & Instruction, emphasis in Science Education
- B.A. University of Maryland, University College, December 2008
Program Area: History
- A.A.S. Community College of the Air Force, December 2008
Program Area: Communications Applications and Technology
- A.A. Defense Language Institute, Monterey, CA, June 2004
Program Area: Korean Language & Culture

PROFESSIONAL EXPERIENCE

Texas A&M University, College Station

June 2017-Current

Research Specialist, Project Coordinator, LISTO (longitudinal RCT study looking at the measurable impact of virtual coaching and mentoring activities on fifth grade science teachers and economically disadvantaged students at schools across the state of Texas; \$15M forward-funded i3 federal Department of Education grant

Specific responsibilities include:

- Design 25-weeks of standards-aligned literacy-infused science curriculum
- Develop and facilitate bi-weekly professional development for science teachers
- Provide real-time and reflective one-on-one coaching to grade 5 science teachers

Spring 2015-Summer 2015

Graduate Research Assistant, Education Research Center, Texas A&M University
Drafted high impact practice grant proposal (funded \$30K)
Created research-based graduate strand for Technology & Teacher Education
STEM education/informal education reviewer; *Learning Environments Research*
Assisted graduate seminar; mentored junior researchers study design/data analysis
Co-authored and edited challenges in teacher education book chapter

Fall 2013-Fall 2014

Graduate Research Assistant, Educator Preparation Program Curriculum Re:Design
Collected/analyzed institutional data, landscape of teacher education in Texas
Evaluated peer institutions by production numbers, specialization, nat'l ranking
Created learning outcomes/curriculum maps; circulated resources for approval
Voice of the program; presented iterations to dept and college-level committees

Spring 2014-Current

Assistant Lecturer, Dept of Teaching, Learning, & Culture, Texas A&M University
Undergraduate Courses
Science Methods for Elementary (TEFB 413) (face-to-face, w/field supervision)
Inquiries in Physical Sciences (MASC 475) (face-to-face)
Science & Math Methods for Secondary (TEFB 406/407) (face-to-face)
Graduate Courses
Cultural Foundations of Education (EDCI 602) (online)
Analysis of Teaching Behaviors (EDCI 673) (online)
Society and Education in World Perspective (EDCI 645) (online)\
Learning Theory and Young Children (EDCI 656) (face-to-face)

Community Homeschool Center

Summer 2012-Fall 2016

Private Instructor, Community Homeschool Center, Bryan, Texas
Developed audience-appropriate course materials
Developed marketing strategies / managed budget

Bryan Independent School District

Fall 2009-Spring 2012

Classroom Teacher, Anson Jones Elementary, Bryan ISD, Texas

2011/2012 School Year

4th Grade Math & Science Classroom Teacher
Positive Behavior Support and Response Team Member

2010/2011 School Year

5th Grade Science Classroom Teacher & Math Interventionist
Campus Leadership Team, Grade Level Leader
Master Schedule Committee Member
Positive Behavior Support and Response Team Member

2009/2010 School Year

5th Grade Math & Science Classroom Teacher
Positive Behavior Support and Response Team Member

PUBLICATIONS

- Akleman, E., Barroso, L., Capraro, M., Creasy, T., Fleming, K., He, W., Hong, L., Williams, A. (2019). Recycling plastics: Middle school students create solutions during a summer camp. *European Journal of STEM Education*.
- Etchells, M., Ketsetzi, A., Fleming, K., Meister, S., & Waxman, H. (2017). Identifying key factors influencing violence directed toward K-12 teachers in American schools. *Electronic International Journal of Education, Arts, and Science*, 3(6), 19-35.
- Webber, N., Waxman, H. & Fleming, K. (2015). With its high teacher costs, is Teach for America a viable option for schools? *The Conversation*, April 2, 2015.
<http://theconversation.com/with-its-high-teacher-cost-is-teach-for-america-a-viable-option-for-schools-37695>
- Lyons, L., Fleming, K., Etchells, M., Ging, A., Ketsetzi, A. & Waxman, H. (2015). Evaluating the Implementation of Core Practices in Teacher Education Programs in Texas. *Texas Forum on Teacher Education*, 5, 33-48. Available at
<http://www.txate.org/pdf/publications/2015/Lyons-Forum2015.pdf>
- Fleming, K. (2014). Assessment of TLAC Undergraduate Educator Preparation Program (internal distribution)

PRESENTATIONS

National or International Conferences

- Fleming, K., Esparza, A.M., Guerrero, C., Irby, B., Tong, F., & Lara, R. (2020). Scaling up research on family involvement in science learning. Paper presentation. American Education Research Association 2020 Annual Conference, San Francisco, CA, April 17-21.
- Esparza, A.M., Fleming, K, Tang, S., Guerrero, C.L., Lara-Alecio, R., Irby, B.J., Tong, F., Wang, Z. (2020). “Science Teachers’ Growth Trajectory in Engagement in Continuous Online PD: A Large-Scale RCT Perspective.” Paper Presentation. American Educational Research Association 2020, San Francisco, CA. April 17-21.
- Fleming, K., Etchells, M., Sonnenburg, S., Jabbari, N., & Waxman, H. (2015). A content analysis of current topics and issues in teacher education. Paper presentation. American Education Research Association 2016 Annual Conference, Washington, D.C., April 8-12.
- Fleming, K., Lyons, L., Etchells, M., & Waxman, H. (2015). Evidence of leadership as a high quality indicator for teacher certification program evaluation. Paper presentation. American Education Research Association 2016 Annual Conference, Washington, D.C., April 8-12.

State or Regional Conferences

- Fleming, K. (2020). Science in the Hundred Acre Wood. Informal Science Education Association Annual Conference, Baylor Research and Innovation Collaborative, Waco, TX, Feb 26-28.
- Fleming, K., & Esparza, A.M. (2019). Bringing science home with Project LISTO. Conference of the Association of Science Teachers in Texas, Dallas, TX, Nov 19-22.
- Esparza, A.M., & Fleming, K. (2019). Bite-size vocabulary. Conference of the Association of Science Teachers in Texas, Dallas, TX, Nov 19-22.
- Esparza, A.M., & Fleming, K. (2019). Conference of the Association of Science Teachers in Texas, Dallas, TX, Nov 19-22.
- Fleming, K., & Esparza, A.M. (2018). 100 alternative science conceptions and activities to draw them out. Conference of the Association of Science Teachers in Texas. Fort Worth, TX, Nov 1-3.
- Fleming, K., Etchells, M., Sonnenburg, S., Jabbari, N., & Waxman, H. (2015). A content analysis of current topics and issues in teacher education. Paper presentation. Southwest Education Research Association Annual Conference, San Antonio, Texas, Feb 4-6.
- Fleming, K., Lyons, L., Etchells, M., & Waxman, H. (2015). Evidence of leadership as a high quality indicator for teacher certification program evaluation. Paper presentation. Southwest Education Research Association Annual Conference, San Antonio, Texas, Feb 4-6.

Professional Development Presentations

- Esparza, A.M., & Fleming, K. (2019). Scaffolding the Claim-Evidence-Reasoning Framework in Literacy-Infused Science Instruction. LISTO Institute. Stella Hotel and Conference Center, College Station, TX. Oct 3-4.
- Esparza, A.M., & Fleming, K. (2019). Using Formative Assessment to Differentiate Science Instruction for Grades 5-7. LISTO Institute. Stella Hotel and Conference Center, College Station, TX. Oct 3-4.
- Fleming, K. (2019). Taking LISTO Outdoors: Scaffolding Student Engagement in Outdoor Science Learning Experiences. LISTO Institute. Stella Hotel and Conference Center, College Station, TX. Oct 3-4.
- Fleming, K., & Guerrero, C. (2019) ELLA-V Curriculum Innovation: Content Reading in Science for English Language and Literacy Acquisition. Dual Language and Literacy Institute. Embassy Suites, College Station, TX, July 12.

Irby, B. & Fleming, K. (2019). Peer Coaching. Summer Leadership Institute. Calvary Court Hotel, College Station, TX, July 10.

Fleming, K., Esparza, A.M., & Guerrero, C. (2018). Classroom Observations: Fidelity of Implementation. LISTO Institute. Stella Hotel and Conference Center, College Station, TX. Oct 3-4.

Fleming, K., & Esparza, A.M. (2018). Unpacking the LISTO Curriculum. LISTO Institute. Embassy Suites, College Station, TX. Oct 4-5.

Esparza, A.M., Guerrero, C., & Fleming, K. (2018). ELLA-V Curriculum Innovation: Content Reading in Science for English Language and Literacy Acquisition. Dual Language and Literacy Institute. Embassy Suites, College Station, TX. July 17-20.

Community Outreach

Fleming, K., & Fleming, N. (2019). Science of the Sabbath. Special Event with the After School Kids (A.S.K.) program, First United Methodist Church of Bryan, Texas. Oct 15.

Fleming, K., & Fleming, N. (2018). Science in the Hundred Acre Wood. Special Event at the Children's Museum of the Brazos Valley. Sept 21.

Fleming, K., & Fleming, N. (2018). Homeschool Science Fair. Special Event at the Community Homeschool Center, Bryan, TX. Apr 27.

Fleming, K., & Fleming, N. (2017). DeSTEMber Camp. Special Event at the Community Homeschool Center, Bryan, TX. Dec 13-15.

Fleming, K., & Fleming, N. (2017). 12 Days of Science. Special Event at the Community Homeschool Center, Bryan, TX. Nov 30.

Fleming, K., & Fleming, N. (2016). DeSTEMber Camp. Special Event at the Community Homeschool Center, Bryan, TX. Dec 14-16.

Invited Speaker Presentations

Fleming, K. (April 2018). Facilitating a risk-taking disposition through authentic scientific inquiry. Invited Speaker, Hope College, Division of Natural and Applied Science, Biology Department

Fleming, K. (Fall 2017). Using concept mapping to analyze interview data, Invited Speaker, SOCI 605 Qualitative Research Methods

Fleming, K. (April 2014). Current research developments in Science Education, Invited Speaker, April Graduate Student Association Meeting

Fleming, K. (July 2014). Merits and challenges of alternative progressions among AggieTEACH candidates: Result from a focus group, Presenter, College of Science & College of Education and Human Development Committee, Texas A&M University

Fleming, K. (June 2014). Texas A&M's Role in the Teacher Certification Landscape in Texas. Special presentation to dean, part of a larger project to assess TLAC's undergraduate preparation program

Fleming, K. (April 2014). Current research developments in Science Education, Invited Speaker, April Graduate Student Association Meeting

Fleming, K. (Fall 2013). Conceptual Frameworks in Science Education, Invited Speaker, EDCI 603, Mixed Methods Research in Curriculum and Instruction

SERVICE

Advisor, Children's Museum of the Brazos Valley, Bryan, TX (Fall 2017-current)

Field Experiences Supervisor, Senior Methods student placements in Bryan ISD, College Station ISD (Fall 2016-Spring 2017)

Organizer, STEM Think Tank (Summer 2013-Spring 2016)

Curriculum Development, Created graduate studies Strand, Technology & Teacher Education

Grant Writing, Building Undergraduate Researchers in Education - TLAC High Impact Practice Grant Proposal (awarded \$30K)

Reviewer, STEM education, informal education, *Learning Environments Research* journal

PROFESSIONAL ORGANIZATIONS

Southwest Educational Research Association, member since 2012

Informal Science Education Association, member since 2012

Association of Science and Technology Centers, member since 2014

American Association for the Advancement of Science, member since 2014

Citizen Science Association, member since 2014

National Association of Research in Science Teaching, member since 2015

American Educational Research Association, member since 2015