

Cindy L. Guerrero

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Center for Research and Development in Dual Language and Literacy Acquisition
Department of Educational Psychology
College of Education and Human Development
Texas A&M University, College Station, Texas

ACADEMIC HISTORY

Education

Ph.D. Texas A&M University, College Station 2015	<i>Educational Psychology</i> <i>Emphasis Area: Bilingual Education</i>
M. Ed. Texas A&M University, College Station 2004	<i>Educational Psychology</i> <i>Emphasis Area: Bilingual Education</i>
M. Ed. Texas State University, San Marcos 1999	Major: Curriculum and Instruction
B.S. Texas State University, San Marcos 1998	Major: Elementary Education

Academic Positions

Educational Psychology, College of Education & Human Development
Texas A&M University, College Station, Texas

2020–current	Research Scientist
2020-current	Lecturer
2017-2020	Associate Research Scientist
2012 – 2017	Senior Research Associate

Aldine Independent School District
Houston, Texas

2005-2012	Lead Research Coordinator
2004-2005	Research Coordinator
1999-2004	English as a Second Language Teacher

Austin Independent School District
Austin, Texas

1998-1999	Elementary Teacher
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RECOGNITIONS AND ACHIEVEMENTS

Staff Extraordinary Service Award, College of Education and Human Development, Texas A&M University, 2023

Nomination for Staff Advisory Council Outstanding Staff Award, College of Education and Human Development, Texas A&M University, 2022

Nomination for Association of Former Students Staff Distinguished Achievement Award, Texas A&M University, 2021

UNIVERSITY TEACHING EXPERIENCE

Texas A&M University (Undergraduate courses)

BEFB 426: Effective instruction for Hispanic students of diverse abilities

Semester: Fall 2023, Spring 2024

INST 363. Advanced English as a second language methods

Semester: Fall 2023

Texas A&M University (Graduate courses)

BIED 616. Spanish for bilingual and dual language classrooms

Semesters: Summer 2021, 2022, 2023

EDCI 611. Teaching English as a second language

Semester: Summer 2020

RESEARCH

Areas of Interest

- Language and literacy development, academic language proficiency, science and reading achievement of emergent bilinguals, and economically challenged students in both rural and urban areas
- Professional learning and coaching for both preservice and inservice teachers of emergent bilinguals, and economically challenged students in both rural and urban areas

Research Grants: Active (n=3)

Research-based Strategies and Artificial Intelligence for School Enhancement: Turning Around Schools (RAISE). (Grant Award No. S411A220007). Grant funded by the U. S. Department of Education, Education Innovation and Research (EIR). Funded \$14,999,990 for 5 years (2023-2027). Investigators: Irby, B. (PI), Lara-Alecio, R. (Co-PI), Tong, F. (Co-PI), Lead Coordinator: **Guerrero, C.**

PROJECT MANAGEMENT AND IMPLEMENTATION: *implement project components including principal residency for instructional coaches, virtual professional development, school enhancement and turnaround, manage IRB approvals, hire and supervise research team (coordinators, graduate students, undergraduate students), generate and track task management, recruit and onboard partner districts and participants, maintain partner relationships with stakeholders, collaborate with consultants and coordinators, oversee data collection, monitor budget*

PROJECT REPORTING AND DISSEMINATION: *conduct weekly meetings with PIs, monthly meetings with External Evaluators, quarterly meetings with Program Officer, develop annual project reporting, disseminate findings through proposals, presentations, research briefs, publications, and organize online and in-person Institutes*

Virtually-Infused Collaborations for Teaching and Learning Opportunities for Rural Youth (VICTORY). (Grant Award No. S411B200055). Grant funded by the U. S. Department of Education, Investing in Innovation (i3). Funded \$7,999,563 for 3 years (2021-2023). Currently in no-cost extension through 2025. Investigators: Lara-Alecio, R. (PI), Irby, B. (Co-PI), Tong, F. (Co-PI), Capraro, R. (Co-PI), & Capraro, M. M. (Co-PI), Lead Coordinator: **Guerrero, C.**

Enhancing Quality Teacher Preparation Through Research-based Instructional Best Practices for Bilingual and English Learners (EBEST). (Grant Award No. T365Z220072). Grant funded by the U. S. Department of Education, Office of English Language Acquisition (OELA). Funded

\$3,000,000 for 5 years (2022-2027). Investigators: Lara-Alecio, R. (PI), Irby, B. (PI), Tong, F. (Co-PI)
Lead Coordinator: **Guerrero, C.**

Research Grants: Completed (n=5)

Literacy-Infused Science Using Technology Innovation Opportunity (LISTO). (Grant Award No.U411B160011). Grant funded by *U.S. Department of Education, Investing in Innovation (i3)*. Funded \$12,000,000 for 5 years (2017-2021), with six month no-cost extension approved through June 30, 2022. Investigators: Lara-Alecio, R. (PI), Irby, B. (Co-PI), Tong, F. (Co-PI), Jones, R. (Co-PI), Capraro, R. (Co-PI), & Capraro, M. M. (Co-PI). Lead Coordinator:**Guerrero, C.**

English Language and Literacy Acquisition-Validation (ELLA-V). (Grant Award No. U411B120047). Grant funded by *U.S. Department of Education, Investing in Innovation (i3)*. Funded \$15,000,000 for 5 years (2013-2017). Investigators: Lara-Alecio, R. (PI), Irby, B. (Co-PI), & Tong, F. (Co-PI). Lead Coordinator: **Guerrero, C.**

Online Bilingual/ESL Certification Project. Grant funded by *Texas Education Agency*. Funded \$500,000 for 3 years (2012-2013). Investigators: Lara-Alecio, R. (PI). Lead Coordinator: **Guerrero, C.**

Collaborative Research: A Longitudinal Randomized Trial Study of Middle School Science for English Language Learners. (Grant Award No. DRL-0822343). Grant funded by the *National Science Foundation*. Funded \$1,695,262 for 4 years (2008-2012). Investigators: Lara-Alecio, R. (PI), Tong, F. (Co-PI), & Irby, B. (PI-sub award). Lead Coordinator: **Guerrero, C.**

Project ELLA: English Language and Literacy Acquisition. (Grant Award No. U411B120047). Grant funded by *U.S. Department of Education, Institute of Educational Sciences (IES)*. Funded \$6,762,115 for 5 years with 1 year no-cost extension (2003-2008). Investigators: Lara-Alecio, R. (PI) & Irby, B. (PI-sub award) Lead Coordinator: **Guerrero, C.**

Research Grants: Not funded (n=2)

PreK Let's Let Science (PkLTS): Building an Inclusive and Innovative Science Base for Diverse Early Learners. Grant submitted to the U.S. Department of Education, Office of Elementary and Secondary Education. Total budget requested: \$3,999,990+400,000 (private match) over 4 years (2023-2027). Investigators: Lara-Alecio, R. (PI), Irby, B. J. (Co-PI), Tong, F. (Co-PI), Guerrero, C. (Co-PI), & Tang, S. (Co-I). Roles and Responsibilities: Proposal development team

Let's Talk Science: Multifaceted Virtual PD and Virtual Mentoring and Coaching to Improve Academic Language Instruction for Young Emergent Bilinguals (Project LTS). Grant submitted to the U.S. Department of Education, Office of English Language Acquisition (OELA). Total Budget Request: \$3 million over 5 years (January 2023-December 2027). Investigators: Tong, F. (PI), Irby, B. J. (Co-PI), & Lara-Alecio, R. (Co-PI). Roles and Responsibilities: Proposal development team

Competitively Awarded Internal Grants (n=1)

Building Rural Teaching Acme in Secondary Science: Enhancing Science Teaching for High Needs Students in Rural Schools, Project BRASS. Grant funded by *Catapult Grant, College of Education and Human Development, TAMU*. Funded \$10,000 for 2 years (2019-2020). Investigators: Lara, R. (PI), Irby, B. (Co-PI), Nafuko, F (Co-PI) , Farenwald, C. (Co-PI) & **Guerrero, C. (Co-PI)**.

PUBLICATIONS

Refereed Publications (n=19)

- Lara-Alecio, R., Irby, B. J., Tong, F., Sutton-Jones, K. L., Guerrero, C., Tang, S., & Pang, H. (2024). Evaluating pedagogical practices in science classrooms: A randomized controlled trial study on virtual professional development with virtual mentoring and coaching. *International Electronic Journal of Elementary Education*, 16(4), 479-494. <https://www.iejee.com/index.php/IEJEE/article/view/2175>
- Tong, F., Irby, B. J., Lara-Alecio, R., Guerrero, C., Tang, S., Sutton-Jones, K. L., & Ross, S. (2023). Designing and evaluating complex educational research to meet What Works Clearinghouse Standards. *Evaluation & Program Planning*, 97. <https://doi.org/10.1016/j.evalprogplan.2023.102262>
- Tong, F., Irby, B. J., Lara-Alecio, R., Guerrero, C., Tang, S., Sutton-Jones, K., & Ross, M. (2023; online first). Designing and evaluating a complex clustered longitudinal randomized controlled trial in high-needs schools: An example of a funded research protocol based on What Works Clearinghouse standards. *Evaluation and Program Planning*. [SSCI, 2021 Impact Factor: 1.886]
- Esparza, A.M., Fleming, K., Zhang, H., Pang, H., Guerrero, C., Lara-Alecio, R., Irby, B., & Tong, F. (2023). Investigating Teachers' Use of Literacy-Infused Science Strategies: A Mixed Methods Study. Manuscript submitted for publication.
- Fleming, K., Esparza, A., Irby, B. J., Lara-Alecio, R., Tong, F., & Guerrero, C. (2022). Windows into thinking: Scaffolding scientific explanations helps overcome barriers to writing. *Science and Children*, 59(6). <https://www.nsta.org/science-and-children/science-and-children-julyaugust-2022/windows-thinking>
- Irby, B. J., Lara-Alecio, R., Tong, F., Guerrero, C., Sutton-Jones, K., & Abdelrahman, N. (2022). Behind the scenes of a longitudinal large-scale randomized control trial study with native Spanish speakers: Lessons learned. In K. Dikilitaş & K. Reynolds (Eds.), *Research methods in language teaching and learning: A practical guide*. Wiley. (Invited.)
- Irby, B. J., Tong, F., Lara-Alecio, R., Tang, S., Guerrero, C., Wang, Z., & Zhen, F. (2021). Investigating the impact of literacy-infused science intervention on economically challenged students' science achievement: A case study from a rural district in Texas. *Science Insights Education Frontiers*, 9(1), 1123-1141.
- Tong, F., Tang, S., Irby, B. J., Lara-Alecio, R., & Guerrero, C., (2020). Inter-rater reliability data of classroom observation: fidelity in large-scale randomized research in education. Data in Brief, 29, 105303. [Indexed in SCOPUS, Cite Score: 2.4]
- Tang, S., Tong, F., Irby, B. J., Lara-Alecio, R., & Guerrero, C., (2020). Fidelity of implementation in a randomized controlled trial study: The effect of virtual professional development on bilingual teachers. *Bilingual Research Journal*, 43(1), 111-124. [Indexed in SCOPUS, Cite Score: 2.5]. 9)
- Tong, F., Tang, S., Irby, B. J., Lara-Alecio, R., & Guerrero, C., (2020). The determination of appropriate coefficient indices for inter-rater reliability: Using classroom observation instruments as fidelity measures in large-scale randomized research. *International Journal of Educational Research*, 99, 101514. [SSCI, 2021 Impact Factor: 2.845].
- Tong, F., Tang, S., Irby, B. J., Lara-Alecio, R., Guerrero, C., & Lopez, T. (2019). A process for establishing and maintaining inter-rater reliability for two observation instruments as a fidelity of implementation measure: A large-scale randomized controlled trial perspective. *Studies in Educational Evaluation*, 62, 18-29. [SSCI, 2021 Impact Factor: 2.704]
- Tong, F., Irby, B. J., Lara-Alecio, R., Guerrero, C., & Tang, S. (2018). The impact of professional learning on in-service teachers' pedagogical delivery of literacy-infused

- science with middle school English learners: a randomized controlled trial study in the U.S. *Educational Studies*. doi: 10.1080/03055698.2018.1509776 [2017 Impact Factor: 0.629]
- Lara-Alecio, R., Irby, B. J., Tong, F., Guerrero, C., & Koch, J. (2018). Assessing conceptual understanding via a literacy-infused, inquiry-based science among middle school English learners and economically-challenged students. *Education Sciences*, 8(27), 1-20. doi:10.3390/educsci8010027 [indexed in Scopus]
- Tong, F., Irby, B. J., Lara-Alecio, R., Guerrero, C., Fan, Y., & Huerta, M. (2014). A randomized study of literacy integrated science intervention for low SES middle school students: Findings from first year implementation. *International Journal of Science Education*, 36(12), 2083-2109. doi: 10.1080/09500693.2014.883107. [2013 Impact Factor 1.516]
- Corcoran, R. P., Ross, S. M., Irby, B. J., Tong, F., Lara-Alecio, R., & Guerrero, C. (2014). ELLA-V and technology usage in an English language and literacy acquisition validation randomized controlled trial study. *World Journal of Educational Technology*, 6(3), 291-307.
- Lara-Alecio, R., Tong, F., Irby, B.J., Guerrero, C., Huerta, M., & Fan, Y. (2012). An experimental study of science intervention among middle school English learners: Findings from first year implementation. *Journal of Research in Science Teaching*, 49(8), 987-1011. doi: 10.1002/tea.21031 [2012 5-year impact factor: 3.227]
- Irby, B. J., Guerrero, C., Rafael-Alecio, R., Tong, F., & Rodriguez, L. (2012). High-quality professional development for teachers of English language learners. *School Leadership Review*, 7(1) 36-46.
- Irby, B. J., Tong, F., Nichter, M., Lara-Alecio, R., Hassey, F., & Guerrero, C. (2011). Hispanic English learners' self esteem related to instructional program type, language of instruction, and gender. *TABE Journal*, 13(1), 26-48.
- Irby, B. J., Tong, F., Lara-Alecio, R., Mathes, G. P., Acosta, S., & Guerrero, C. (2010). Quality of instruction, language of instruction, and Spanish-speaking English learners' performance on a state high-stakes reading assessment. *TABE Journal*, 12(1), 1-42.

Invited Chapters and Other Publications (n=5)

- Lara-Alecio, Irby., B.J., Tong, F., & Guerrero, C. (2022). Partnering with corporations. In. AnLar (Eds.), *Innovations and adaptations inspired through COVID-19 constraints: A rural cross-project summary*.
- Lara-Alecio., R., Irby., B.J., Tong, F., Guerrero, C., Sutton-Jones, K., & Abdelrahman, N. (2022). Behind the scenes of a longitudinal large-scale randomized controlled trial study with native Spanish speakers: Lessons learned. In K. Dikilitas & K., Mastuserio-Reynolds (Eds.), *Research methods in language teaching and learning: A practical guide*. Wiley Blackwell.
- Irby, B.J., Lara-Alecio, R., Tong, F., & Guerrero, C. (2017). Making spaces for learning with maker spaces. [in Chinese]. *Journal of World Education* (Chinese Ministry of Education), 18, 6-9.
- Druery, D., Irby, B. J., Lara-Alecio, R., Tong, F., & Guerrero, C. (2017). Academic Oral and Written Language (AOWLS): A Curriculum Component of the English Language and Literacy Acquisition-Validation (ELLA-V; i3 Grant). In P. Cook (Ed.). *Educational Trends*. Newcastle upon Tyne, England: Cambridge Press.
- Irby, B. J., Tong, F., Lara-Alecio, R., Guerrero, C., Jimenez, D., & Lopez, T. (2014). What works for learners and their teachers in second language learning classrooms. In P. R. Cook, (Ed.), *Educational trends: A symposium in Belize, Central America* (pp. 80-91). Newcastle, UK: Cambridge Scholars Publishing.

Under Review (n=1)

Zhang, H., Sutton-Jones, K. L., Guerrero, C., Irby, B. J., Lara-Alecio, R., & Tong, F. (under review August 2024). A novel design using wearable technology for home observations exploring family involvement in take-home science activity kits. *International Journal of Designs for Learning*.

Technical Research Reports Prepared for Federal Agencies (n=27)

Project RAISE reports submitted to Education Innovation & Research (EIR), U.S. Department of Education (ED)

- (2023). *Project RAISE 1st Year Annual Performance Report*

Project VICTORY reports submitted to Education Innovation & Research (EIR), U.S. Department of Education (ED)

- (2023). *Project VICTORY 3rd Year Annual Performance Report*
- (2022). *Project VICTORY Proposal for No-Cost Extension*
- (2022). *Project VICTORY 2nd Year Annual Performance Report*
- (2021). *Project VICTORY 1st Year Annual Performance Report*

Project LISTO reports submitted to the Office of Investment and Innovation, U. S. Department of Education (ED).

- (2021). *Project LISTO Proposal for No-Cost Extension*
- (2020). *Project LISTO 3rd Year Annual Performance Report*
- (2019). *Project LISTO 2nd Year Annual Performance Report*
- (2019). *Project LISTO Management Plan--Year 3*
- (2018). *Project LISTO Management Plan--Year 2.*
- (2018). *Project LISTO 1st Year Annual Performance Report.*
- (2017). *Project LISTO Management Plan--Year 1.*

Project ELLA-V reports submitted to the Office of Investment and Innovation, U.S., Department of Education (ED).

- (2017). *Project ELLA-V 4th Year Annual Performance Report.*
- (2016). *Project ELLA-V Management Plan—Year 4.*
- (2016). *Project ELLA-V 3rd Year Annual Performance Report.*
- (2015). *Project ELLA-V Management Plan—Year 3.*
- (2015). *Project ELLA-V 2nd Year Annual Performance Report.*
- (2014). *Project ELLA-V 1st Year Annual Performance Report.*
- (2014). *Project ELLA-V Management Plan—Year 2.*

Project MSSELL reports submitted to the National Science Foundation (NSF).

- (2013). *Project MSSELL final performance report.*
- (2011). *Project MSSELL 3rd year annual evaluation.*
- (2010). *Project MSSELL 2nd year annual evaluation.*
- (2009). *Project MSSELL 1st year annual evaluation.*

Project ELLA reports submitted to Institute for Education Sciences (IES), Department of Education (ED).

- (2009). *Project ELLA final evaluation.*
- (2008). *Project ELLA 5th year annual evaluation.*
- (2007). *Project ELLA 4th year annual evaluation.*
- (2006). *Project ELLA 3rd year annual evaluation.*

PRESENTATIONS

Refereed Conference Presentations (n=53)

- McMurray, A., Zhang, H., Guerrero, C. L., Sutton-Jones, K., Zhen, F., Lara-Alecio, R., Irby, B. J., & Tong, F. (2024, April 11). *Family involvement in science (FIS): Nurturing curiosity, inspiring discovery* [Paper Session]. International Network of Scholars (INET) Annual Meeting, Philadelphia, PA, United States.
- Zhang, H., McMurray, A., Guerrero, C. L., Pang, H., Yang, X., Lara-Alecio, R., Irby, B. J., & Tong, F. (2024, April 11-14). *Family members' perceptions of take-home literacy-infused science kit activities* [Poster Session]. AERA Annual Meeting, Philadelphia, PA, United States.
- Guerrero, C., Irby, B. J., Bachman, A., Zhang, H., Lara-Alecio, R., Tong, F., Sutton-Jones, K. L., & Pang, H. (2023, April). *University science mentors' perceptions of virtual interactions with third-grade students in rural settings*. Presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Sutton-Jones, K. L., McMurray, A., Yang, X., Zhang, H., Lara-Alecio, R., Irby, B. J., Tong, F., Guerrero, C., & Pang, H. (2023, April). *Third-grade science teachers' perceptions of an online literacy-infused science intervention*. Presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Tang, S., Lara-Alecio, R., Tong, F., Guerrero, C., Zhang, H., Ma, S., Xu, Y., & Irby, B. J. (2023, April). *A comparison study of teachers' pedagogical practices in online and in-person classes*. Presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Zhang, H., Mills, M., Guerrero, C., Lara-Alecio, R., Irby, B. J., & Tong, F. (2023, September). *Project VICTORY's SRM2 program: Empowering rural youth for STEM success*. National Rural Education Association. (Online)
- Tong, F., Irby, B. J., Lara-Alecio, R., Guerrero, C. L., Tang, S., Zhen, F., & Wang, Z. (2022, April 21-26). *The impact of virtual PD on science teachers' fidelity of implementation in a randomized study* [Conference session]. American Educational Research Association 2022 Annual Meeting, San Diego, CA, United States.
- Tong, F., Irby, B. J., Lara-Alecio, R., Guerrero, C. L., Tang, S., & Wang, Z. (2022, April 21-26). *Longitudinal analysis of English learners' language development via Texas English Language Proficiency Assessment System* [Paper presentation]. American Educational Research Association 2022 Annual Meeting, San Diego, CA, United States.
- Lara-Alecio, R., Irby, B. J., Tong, F., Guerrero, C. L., Tang, S., He, C., & Wang, Z. (2022, April 21-26). *Science teachers' instructional behaviors and their students' science learning: a randomized controlled research study in schools* [Paper presentation]. American Educational Research Association 2022 Annual Meeting, San Diego, CA, United States.
- Tang, S., Guerrero, C., Tong, F., Irby, B., Lara-Alecio, R., Zhen, F., & Guo, W. (2021, April). *Teachers' perceptions of ongoing virtual professional development in a science-infused literacy intervention*. Presented at the annual meeting of the American Educational Research Association (Online conference).
- Lara-Alecio, R., Tong, F., Irby, B., Guerrero, C., Tang, S., Wang, Z., He, C., & Zhen, F. (2021, April). *Fifth-grade science teachers' pedagogical approaches in a randomized controlled trial: A classroom observation study*. Presented at the annual meeting of the American Educational Research Association (Online conference).
- Esparza, A.M., Fleming Jr., K., Pang, H., Zhang, H., Guerrero, C.L., Lara-Alecio, R., Irby, B.J., & Tong, F. (2021, April). *Investigating Literacy-Infused Science Strategies Enactment Among 7th Grade Science Teachers*. Presented at the annual meeting of the American Educational Research Association (Online conference).
- Tong, F., Irby, B. J., Lara-Alecio, R., Tang, S., Guerrero, C. L., Cajiao-Wingenbach, L., Wolf,

- B., & Ross, S. M. (2019, April). *The immediate and long-term impact of an English literacy- and-science-infused intervention on English learners' science achievement*. Paper presented at the annual meeting of AERA, Toronto, Canada.
- Irby, B. J., Tong, F., Lara-Alecio, R., Tang, S., Guerrero, C. L., Cajiao-Wingenbach, L., Ross, S. M., Wolf, B., & Latham, G. (2019, April). *The effect of virtual professional development on kindergarten bilingual teachers' implementation fidelity in a randomized study*. Paper presented at the annual meeting of AERA, Toronto, Canada.
- Fleming, K., Esparza, A., Lara-Alecio, Guerrero, C., R., Irby, B.J., & Tong, F. (2018, October). *100 alternative science conceptions*. Paper presented at Advancement of Science Teaching, Fort Worth, TX.
- Guerrero, C., Tang, S., Lin, S., Lopez, T., Tong, F., Irby, B., & Lara-Alecio, R. (2018, April). *Establishing and monitoring inter-rater reliability of classroom observations in a large- scale randomized controlled trial*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.
- Irby, B., Tong, F., Lara-Alecio, R., Guerrero, C., Tang, S., Lin, S., Wang, Z., & Lopez, T. (2018, April). *Hispanic kindergarten bilingual students' response to instructional intervention on English oral language and early literacy*. Paper presented at the annual meeting of the American Educational Research Association, New York City.
- Tong, F., Lara-Alecio, R., Irby, B., Guerrero, C., Tang, S., Lin, S., Lopez, T., & Min, Y. (2018, April). *Instructional intervention and kindergarten bilingual students' English achievement: A randomized controlled trial in school*. Paper presented at the annual meeting of the American Educational Research Association, New York City.
- Tong, F., Irby, B., Tang, S., Lara-Alecio, R., Guerrero, C., Lopez, T., & Cajiao-Wingenbach, L. (2018, April). *Kindergarten bilingual teachers' pedagogical differences during ESL block in a randomized controlled trial study*. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Tong, F., Irby, B., Lara-Alecio, R., Guerrero, C., Min, Y., Wang, Z., Cajiao-Wingenbach, L., & Lopez, T. (2018, April). *Kindergarten teachers' perception of virtual professional development in a randomized controlled trial study*. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Tang, S., Guerrero, C., Lopez T., Tong, F., Irby, B.J., Lara-Alecio, R., Lin, S., & Min, Y. (2017, April). *Fidelity of implementation in a randomized control trial study: The effect of virtual professional development*. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX.
- Tong, F., Irby, B., Lara-Alecio, R., Guerrero, C., Tang, S., & Lopez, T. (2017 April). *First grade bilingual teachers' pedagogical differences during ESL block in a randomized control trial study*. Paper presented at the annual meeting of American Educational Research Association, San Antonio, TX.
- Tong, F., Irby, B., Tang, S., Lin, S., Guerrero, C., Lara-Alecio, R., & Lopez, T. (2017 April). *Indicators of inter-rater reliability for classroom observation instruments as fidelity of implementation in large-scale RCTs*. Paper presented at the annual meeting of American Educational Research Association, San Antonio, TX.
- Lara-Alecio, R., Tong, F., Irby, B., Guerrero, C., Lopez, T., Tang, S., & Lin, S. (2017 April). *Instructional intervention and bilingual students' English achievement: A randomized controlled trial in School*. Paper presented at the annual meeting of American Educational Research Association, San Antonio, TX.
- Lara-Alecio, R., Irby, B. J., Tong, F., Lopez, T., & Guerrero, C. (2016, April). *Teachers' perception of virtual professional development in a randomized control trial*. Paper presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Tong, F., Irby, B. J., Lara-Alecio, R., Guerrero, C., Tang, S., & Lopez, T. (2016, April). *Second grade bilingual teachers' pedagogical differences during ESL block in a randomized*

- control trial study*. Paper presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Lara-Alecio, R., Irby, B. J., Tong, F., Guerrero, C., Lopez, T., Corcoran, R., & Ross, S. (2016, April). *Using technology to facilitate scalability in a randomized control trial validation study*. Paper presented at the meeting of the American Educational Research Association, Washington, D.C.
- Irby, B. J., Tong, F., Lara-Alecio, R., Guerrero, C., Lopez, T., Corcoran, R., Ross, S., Cheung, A., & Slavin, R. (2016, April). *Evaluating instructional intervention in promoting students' English development and science learning in an urban district*. Paper presented at the meeting of the American Educational Research Association, Washington, D.C.
- Lara-Alecio, R., Tong, F., Irby, B. J., Guerrero, C., Lopez, T., Lai, H. C., & Jimenez, D. (2015, April). *Third grade bilingual teachers' pedagogical differences during ESL block in a randomized control trial study*. Paper presented at the annual meeting of American Educational Research Association, Chicago, IL.
- Lara-Alecio, R., Irby, B. J., Tong, F., Guerrero, C., & Fan, Y. (2014, April). *Computer assisted English language learning environments in Costa Rican elementary schools: An experimental study*. Paper presented at the annual meeting of American Educational Research Association, Philadelphia, PA.
- Irby, B. J., Lara-Alecio, R., Tong, F., Fan, Y., & Guerrero, C. (2014, April). *Teachers' pedagogical practices in grade three English classes in the United States and Costa Rica*. Paper presented at the annual meeting of American Educational Research Association, Philadelphia, PA.
- Tong, F., Irby, B. J., Lara-Alecio, R., & Guerrero, C. (2014, April). *The impact of small group direct instruction on second grade Hispanic females struggling in reading*. Paper presented at the annual meeting of American Educational Research Association, Philadelphia, PA.
- Lara-Alecio, R., Tong, F., Irby, B. J., & Guerrero, C. (2014, April). *Validating innovations in schools: From English Language and Literacy Acquisition (ELLA) to ELLA-V*. Poster session presented at the annual meeting of American Educational Research Association, Philadelphia, PA.
- Guerrero, C., Tong, F., Irby, B. J., & Lara-Alecio, R. (2013, October). *Longitudinal intervention integrating literacy and science for fifth grade Hispanic current and former English learners*. Paper presented at the annual meeting of Texas Association of Bilingual Education, Houston, Texas.
- Irby, B. J., Lara-Alecio, R., Tong, F., & Guerrero, C. (2013, May). *How professional development can shape teachers' pedagogical delivery of science and language teaching in middle school classrooms with English language learners (ELLs) and English-speaking minority students*. Symposium presented at the annual meeting of National Association for Research in Science Teaching, Puerto Rico.
- Tong, F., Irby, B. J., Lara-Alecio, R., Guerrero, C., & Fan, Y. (2013, April). *Longitudinal findings of a literacy-integrated science intervention on middle school low-SES English learners and native English speakers – An Evaluation of a randomized trial study in school*. Paper presented at the annual meeting of American Educational Research Association, San Francisco, California.
- Tong, F., Irby, B. J., Lara-Alecio, R., & Guerrero, C. (2013, February). *A two-year randomized literacy-integrated science intervention with middle school Spanish-speaking English learners and English speakers*. Paper presented at the annual meeting of National Association of Bilingual Education, Orlando, Florida.
- Guerrero, C., Lara-Alecio, R., Irby, B. J., & Tong, F. (2012, October). *Middle school science for English language learners (Project MSSELL): Integrating science software and supplemental leveled questions to increase science achievement of second language learners*. Paper presented at the annual meeting of Texas Association of Bilingual

- Education, San Antonio, Texas.
- Tong, F., Lara-Alecio, R., Irby, B. J., Guerrero, C., Fan, Y., Huerta, M., Xu, S. (2012, April). *Preliminary findings from a randomized literacy-integrated science intervention among low- SES minority middle school students*. Paper presented at the annual meeting of American Educational Research Association, Vancouver, British Columbia, Canada.
- Lara-Alecio, R., Irby, B.J., Tong, F., Guerrero, C., & Rodriguez, L. (2011, April). *Learning academic science language among intermediate English learners*. Paper presented at the annual meeting of American Educational Research Association, New Orleans, LA.
- Lara-Alecio, R., Irby, B., Tong, F., Rodriguez, L., Guerrero, C. (2011, April). *Middle school science for English language and literacy acquisition (MSSELL): A randomized trial longitudinal discovery research K-12 (DR-K12) study*. Paper discussion presented at the annual meeting of American Educational Research Association, New Orleans, LA.
- Lara-Alecio, R., Irby, B., Tong, F., & Guerrero, C. (2011, February). *Promoting bilingualism and biliteracy: Programmatic difference between one-way dual language and transitional bilingual programs*. Paper presented at the annual meeting of National Association of Bilingual Education, New Orleans, LA.
- Guerrero, C., Tong, F., Lara-Alecio, R., & Irby, B. J. (2010, April). *Spanish-speaking English learners' performance on high-stakes reading assessment*. Paper discussion presented at the symposium of annual meeting of American Educational Research Association, Denver, CO.
- Guerrero, C., Tong, F., Lara-Alecio, R., & Irby, B. (2010, February). *Promoting bilingualism and biliteracy: Programmatic difference between one-way dual language and transitional bilingual programs*. Paper presented at the annual meeting of National Association of Bilingual Education, Denver, CO.
- Guerrero, C., Tong, F., Lara-Alecio, R., & Irby, B. J. (2009, October). *Spanish-Speaking English learners' performance on a high-stakes reading assessment*. Paper presented at the annual meeting of Texas Association of Bilingual Education, Houston, TX.
- Tong, F., Lara-Alecio, R., Irby, B. J., Guerrero, C. (2009, April). *Promoting bilingualism and biliteracy: A four-year longitudinal comparison between one-way dual-language and transitional bilingual models*. Paper presented at the annual meeting of American Educational Research Association, San Diego, CA.
- Tong, F., Irby, B. J., Lara-Alecio, R., Guerrero, C. (2009, April). *Gender differences on English language/literacy acquisition among Hispanic second language learners*. Paper presented at the annual meeting of American Educational Research Association, San Diego, CA.
- Guerrero, C., Tong, F., Lara-Alecio, R., & Irby, B. (2009, February). *Promoting bilingualism and biliteracy: Programmatic difference between one-way dual language and transitional bilingual programs*. Paper presented at the annual meeting of National Association of Bilingual Education, Tampa, FL.
- Irby, B., Lara-Alecio, R., Tong, F., Rodriguez, L., Guerrero, C. (2009, February). *One-way developmental dual language model: Practical application of scientifically-based research components*. Paper presented at the Dual Language Immersion SIG Pre-conference of annual meeting of National Association of Bilingual Education, Austin, TX
- Tong, F., Lara-Alecio, R., Irby, B., Mathes, P., Nie, Y., Guerrero, C., & Cox, K. (2008, March). *Gender differences on English language/literacy acquisition among Hispanic second language learners*. Paper discussion at the annual meeting of American Educational Research Association, New York, NY.
- Cox, K., Tong, F., Guerrero, C., Lara-Alecio, R., Irby, B., & Mathes, P. (2007, October).

Empowering struggling readers: The impact of small group direct instruction on second grade Hispanic females. Paper presented at the annual meeting of Research on Women in Education, San Antonio, TX.

Cox, K., Tong, F., Guerrero, C., Lara-Alecio, R., Irby, B., & Mathes, P. (2007, October). *Empowering 2nd grade struggling readers: a small group English reading intervention.* Paper presented at the annual meeting of Texas Association of Bilingual Education, San Antonio, TX.

Lara-Alecio, R., Tong, F., Irby, B., Rodríguez, L., Quiros, A., Guerrero, C., & Cox, K. (2007, April). *Using an observation protocol in bilingual and ESL classrooms in Institute for Education Science-funded research.* Paper presented at the annual meeting of American Educational Research Association, Chicago, IL.

Invited Local, National, and International Presentations (n=41)

Guerrero, C. (2024). *Bridging content and language: Supporting emergent bilinguals in science.* Presented at Conference for the Advancement of Science Teaching (CAST). Houston, TX.

Guerrero, C., Lara-Alecio, R., Irby, B. J., Sutton-Jones, K., McMurray, A., Zhang, H., & Mills, M. (2023, November). *Empowering rural communities: Literacy-Infused Science Mentorship for teachers, students and families.* Presented at the Cambodia International Conference on Mentoring Educators. (Online)

Lara-Alecio, R., Irby, B.J., Tong, F., Guerrero, C., & Zhang, H. (2023, June). *Family Involvement in Science.* Presented at EIR Rural CoP Spotlight. (Online)

Guerrero, C. & Sutton-Jones, K. (2022, April). *Getting started in grant writing.* Presented at Paths to Publications. (Online)

Guerrero, C. (2022, November). *Using graphic organizers in science: Scaffolding oral language, reading comprehension, and writing.* Presented at Conference for the Advancement of Science Teaching (CAST). Dallas, TX.

Irby, B. J., & Guerrero, C. (2022, March). *EIR matching funds overview & tips webinar.*

Lara-Alecio, R., Irby, B. J., Tong, F., Guerrero, C., Esparza, A., Tang, S., McMurray, A., & Fleming, K. (2022). *Literacy-infused science* [Online institute].

Guerrero, C. (2021, July). *Story retell and higher-order thinking for English language and literacy acquisition.* Presented at Frog Street's Early Childhood Education Conference, Dallas.

Guerrero, C. (2021, March). *Facilitating grant implementation.* Presented at Paths to Publications. (Online)

Guerrero, C. (2021, February). *Reading's impact on learning science.* Presented at the College of Education and Human Development's Voices of Impact Speaker Series.

Guerrero, C., Pashmforoosh, R., Abdelrahman, N., Singer, E., Vargas, M., Choron, V., & Sutton-Jones, K. L. (2021, November). *Implementing virtual mentoring and coaching within large-scale projects: A panel discussion.* Presented at the Cambodia International Conference on Mentoring Educators. (Online)

Guerrero, C., & Granados-Aguilar, R. (2021, November). *Scientists as Role Models and Mentors.* Presented at the Cambodia International Conference on Mentoring Educators. (Online)

Granados-Aguilar, R., & Guerrero, C. (2021, November). *Mentoring families to engage in family involvement in science (FIS).* Presented at the Cambodia International Conference on Mentoring Educators. (Online)

Fleming, K., & Guerrero, C. (2019). *Content reading in science for English language and literacy acquisition (CRISELLA).* Dual Language and Literacy Institute, Center for Research and Development in Dual Language and Literacy Acquisition (CRDLLA), Texas A&M University.

Guerrero, C. (2019). *Research-based instructional strategies embedded in LISTO.* Literacy- Infused Science Using Technology Opportunities Institute, Center for

- Research and Development in Dual Language and Literacy Acquisition (CRDLLA), Texas A&M University.
- Guerrero, C. (2019). *Instructional leaders invested in the LISTO classroom*. Literacy-Infused Science Using Technology Opportunities Institute, Center for Research and Development in Dual Language and Literacy Acquisition (CRDLLA), Texas A&M University.
- Guerrero, C. (2019). *Early interventions in reading*. Dual Language and Literacy Institute, Center for Research and Development in Dual Language and Literacy Acquisition (CRDLLA), Texas A&M University.
- Guerrero, C. (2019). *Story-telling and higher-order thinking for English language and literacy acquisition (STELLA)*. Dual Language and Literacy Institute, Center for Research and Development in Dual Language and Literacy Acquisition (CRDLLA), Texas A&M University.
- Guerrero, C. (2019). *Let's talk science (LTS)*. Dual Language and Literacy Institute, Center for Research and Development in Dual Language and Literacy Acquisition (CRDLLA), Texas A&M University.
- Irby, B.J., Lara-Alecio, R., Tong, F., Guerrero, C., Pathikonda, S., & Etchells, M. (2019). *Artificial intelligence to augment personalized mentoring and coaching in education*. Texas A&M Institute of Data Science.
- Lara-Alecio, R., Irby, B.J., Tong, F., & Guerrero, C. (2019). *Literacy-infused science using technology opportunities (LISTO)*. Borlaug Institute for International Agriculture, Texas A&M University.
- Tong, F., Lara-Alecio, R., Irby, B. J., Guerrero, C., & Pathikonda, S. (2019). *Literacy-infused science using technology innovation opportunity: Project LISTO first two years of data*. Dual Language and Literacy Institute, Center for Research and Development in Dual Language and Literacy Acquisition (CRDLLA), Texas A&M University.
- Lara-Alecio, R., Irby, B. J., Tong, F., Guerrero, C., & Pathikonda, S. (2018). *Literacy-infused science using technology innovation opportunity: Project LISTO*. Dual Language and Literacy Institute, Center for Research and Development in Dual Language and Literacy Acquisition (CRDLLA), Texas A&M University.
- Lara-Alecio, R., Irby, B., J, Tong, F., Guerrero, C., & Rivera, H. (2018). *A bouquet of research on English learners*. Texas A&M Hispanic Network Summit, College Station, TX.
- Guerrero, C., Cajiao-Wingenbach, L., Pashmforoosh, R., Tang, S., Eljaouhari, N., Ireland, S., Lara-Alecio, R., Irby, B. J., & Tong, F., (2017, October). *Enhancing graduate students' knowledge and skills through project English language and literacy acquisition-validation (ELLA-V)* --- Graduate Student Research Panel. Literacy Study Group, TAMU.
- Guerrero, C., Cajiao-Wingenbach, L., Pashmforoosh, R., Tang, S., Eljaouhari, N., Ireland, S., Lara-Alecio, R., Irby, B. J., & Tong, F., (2017, October). *Project English language and literacy acquisition - Validation (ELLA-V)*. Center for Research and Development in Dual Language and Literacy Acquisition, TAMU.
- Lara-Alecio, R., Irby, B. J., Tong, F., & Guerrero, C. (2016, November). *English Language and Literacy Acquisition – Validation: 1st grade findings*. Invited presentation sponsored by Center for Research and Development in Dual Language and Literacy Acquisition, TAMU.
- Lara-Alecio, R., Irby, B. J., Tong, F., & Guerrero, C. (2016, April). *English Language and Literacy Acquisition – Validation: RCT District Highlights*. Invited presentation at Dean's Development Council, CEHD, TAMU
- Lara-Alecio, R., Irby, B. J., Tong, F., & Guerrero, C. (2016, April). *English Language and Literacy Acquisition – Validation: RCT District Highlights*. Invited presentation sponsored by Center for Research and Development in Dual Language and Literacy Acquisition, TAMU.

- Lara-Alecio, R., Irby, B. J., Tong, F., Guerrero, C., & Lopez, T. (2016, March). *Project English Language and Literacy Acquisition – Validation (ELLA-V): Using virtual training, observations, and coaching to support teachers' English instruction of elementary bilingual students*. Invited webinar presentation for i3 community.
- Lara-Alecio, R., Irby, B. J., Tong, F., Guerrero, C., & Lopez, T. (2014, June). *Fostering engagement in the online platform and strategies to overcome the tech-hesitant*. Invited presentation at the i3 project directors meeting, Washington D.C.
- Lara-Alecio, R., & Irby, B. J., Tong, F., & Guerrero, C., & Lopez, T. (2014, June). *Sustainability and scalability for Project ELLA-V*. Invited presentation at the i3 project directors meeting, Washington D.C.
- Lara-Alecio, R., & Irby, B. J., & Tong, F., & Guerrero, C. (2013, September). *Validating what works: from project ELLA to project ELLA-V*. Invited presentation at the Education Research Center at Texas A&M University, College Station, TX.
- Lara-Alecio, R., & Irby, B. J., Tong, F., & Guerrero, C. (2013, May). *Validating what works: from ELLA to ELLA-V*. Invited presentation at the i3 project directors meeting, Washington D.C.
- Tong, F., Guerrero, C., Lara-Alecio, R., & Irby, B. J. (2013, May). *A bouquet of research for English language learners*. Invited presentation at the Harris County Department of Education, Houston, TX.
- Lara-Alecio, R., & Irby, B. J., Tong, F., & Guerrero, C. (2013, March). *Findings of project EILE- primary and secondary schools*. Invited presentation to the Multilingual Department of Education, San Jose, Costa Rica.
- Lara-Alecio, R., & Irby, B. J., Tong, F., & Guerrero, C. (2012, June). *Middle school science for English language learners*. Invited presentation at the National Science Foundation annual meeting, Washington D.C.
- Lara-Alecio, R., & Irby, B. J., Tong, F., & Guerrero, C. (2011, June). *Middle school science for English language learners*. Poster presentation at the National Science Foundation annual meeting, Washington D.C.
- Lara-Alecio, R., Irby, B., Tong, F., Guerrero, C., & Mansfield, T. (2010). *Project MSSELL: Middle school science for English language learners*. NSF reverse site visit, Arlington, VA.
- Lara-Alecio, R., Irby, B., Tong, F., Guerrero, C. (2009). *Experimental investigations of instruction and the language of instruction with Spanish-speaking English-language learners*. Fourth Annual IES Research Conference, Washington D.C.
- Lara-Alecio, R., Irby, B., Mathes, P., Rodríguez, L., Guerrero, C., Quiros, A., Tong, F. (2006, October). *Project ELLA: English language and literacy acquisition*. Fifth Annual Celebrate Our Rising Stars Summit, hosted by the Office of English Language Acquisition, Language Enhancement, and Academic Achievement for Limited English Proficient Students (OELA) of the U.S. Department of Education, Washington, DC.

EXTERNAL SERVICE

Service to Professional Organizations

- | | |
|-----------|---|
| 2022-2023 | Officer, Classroom Observation SIG, American Education Research Association (AERA) |
| 2021 | Reviewer, National Science Foundation DRK-12 secondary STEM
Reviewer, Bilingual Education Research SIG
Reviewer, Teaching & Teacher Education, Division K
American Education Research Association (AERA) |

Memberships

American Educational Research Association (AERA)

Division C: Learning and Instruction

Division K: Teaching and Teacher Education

SIGs: Classroom Observation, Bilingual Education and Research

Texas Association of Bilingual Educators (TABE)

SPECIALIZED TRAINING AND CERTIFICATIONS

Training for Human Research, Group 2. Social and Behavioral Research Investigators and Key Personnel, CITICollaborative Institutional Training Initiative (CITI), valid through December 5, 2028

Teacher certification, Grades 1-6 Elementary Self-Contained Certified Teacher, Texas

Teacher certification, English as a Second Language Supplemental, Texas

Teacher certification, Early Childhood Supplemental, Texas