

KAUSALAI (KAY) WIJEKUMAR

Houston Endowed Chair
Department of Teaching, Learning and Culture
Director, Center for Urban School Partnerships (CUSP)
Texas A&M University
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College Station, TX 77843
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EDUCATION

Instructional Systems - Ph.D. December 2000
The Pennsylvania State University, PA
Dissertation Title: The *Effect Of* and *Effect With* Computer Tools in Experts'
Representation of Ill-Structured Problems
Advisor: David H. Jonassen

Master of Science in Computer Science, 1989
University of Pittsburgh, Pittsburgh, PA

Pre-Masters Courses in Statistics and Information Systems 1985
North Carolina State University, Raleigh, NC

Bachelor of Science in Electronics Engineering Technology - Summa Cum Laude 1984
Franklin University, Columbus, OH

Coursework towards degree (QPA 4.0)
Ohio State University, Columbus, OH

PROFESSIONAL EXPERIENCE

2014- present Texas A&M University
Houston Endowed Chair, Teaching, Learning and Culture
Director (2015 -)– Center for Urban Schools Partnerships (CUSP)
College of Education and Human Development
Associate Editor – Journal of Educational Psychology
Editorial Board – Educational Technology Research & Development
Editorial Board – American Educational Research Journal
Editorial Board –Review of Educational Research

- 2000- 2014 The Pennsylvania State University - Beaver Campus
Associate Professor (since 2006)
Information Sciences and Technology
{Elected School Board Director
Quaker Valley School District 2005 to 2014}
Liaison and collaboration with IST Advisory Board Corporate Partners
– Fedex Services, UPMC, Highmark, Westinghouse, Michael Baker
Corporation, PNC Bank, Dicks Sporting Goods, First Energy, Bayer
Pharmaceuticals.
- 2001 The Pennsylvania State University - World Campus
Assistant Professor
- 1999 - 2001 Indiana University of Pennsylvania
Director, Distance Education Development
- 1992 - 1999 Indiana University of Pennsylvania
Director, Office of Institutional Research
- 1989 - 1992 Anderson Consulting (Accenture)
Senior Consultant
(Full Time 1989 to 1990 and contracted services from 1990 to 1992)
- 1987-1989 University of Pittsburgh – Department of Computer Science
Graduate Teaching Assistant

FUNDED GRANTS

- Wijekumar, K., McKeown, D., Thompson, J., Joshi, R.M. (2018-2021). Promoting improvements in teacher quality through massively open online professional development. U423A180074 U.S. Department of Education Institute of Education Sciences.. \$7.5 million
- Wijekumar, K., Meyer, B.J.F., Lei, P., & Hernandez,A. (2018-2022). Efficacy trials for the Web-Based Adaptive Tutoring for EL Learners (SWELL). R305A180060 U.S. Department of Education Institute of Education Sciences, Goal 3 Efficacy, \$3.3 million.
- Wijekumar, K., Harris, K., Graham, S., McKeown, D., Lei, P., & Meyer, B.J.F. (2018-2022). Efficacy of a web-based writing partner (We-Write Persuasively) to improve writing persuasive essays for 5th grade students. R305A180212 U.S. Department of Education Institute of Education Sciences, Goal 3 Efficacy, \$3.3 Million

- Wijekumar, K. (2017-2019), Science Literacy in Middle Grades. Powell Foundation of Houston, \$54,000
- Wijekumar, K., Meyer, B.J.F., & Lei, P. (2015-2020). Efficacy and Replication Trial of the Individualized Adaptive ITSS with 4th- and 5th-Grade Students in High Poverty Schools. R305A150057 U.S. Department of Education Institute of Education Sciences. \$3.5 million
- Thompson, J.T., Wijekumar, K., Castro-Olivio, S. (2016-17). Technology-Delivered Emergent Literacy Assessment for Children with Autism Spectrum Disorder, Texas Grant. \$25,000.
- Wijekumar, K., Harris, K., Graham, S., Meyer, B.J.F., & Lei, P. (2013-2016). Development of a web-based writing partner (We-Write Persuasively) to improve writing persuasive essays for 5th grade students. \$1.5 million. U.S. Department of Education Institute of Education Sciences
- Wijekumar, K., Hammer, J., Boettcher, C., Viruru, R., Goldsby, D. Acosta, S., & Padron, Y. (2016), TRANSFORMERS. A Proposal for a catapult grant from the College of Education and Human Development at Texas A&M University. 25,000
- Wijekumar, K., Meyer, B.J.F., Lei, P., Schwarz,A. & August, D. (2012-2015). Improving Reading Comprehension of Middle Grades English Language Learners by Combining Structure Strategy with Web-Based Adaptive Tutoring for EL Learners (SWELL). U.S. Department of Education Institute of Education Sciences \$1.5 million.
- Wijekumar, K. , Meyer, B.J.F., & Lei, P. (2008-2013). Efficacy and Replication Research on the Intelligent Tutoring System for the Structure Strategy -- Rural and Suburban Schools Grades 4,5,7 and 8. US Department of Education, Institute of Education Sciences. R305A080133. \$3 million.
- Wijekumar, K. & Hitchcock, J. (2007-2009). Randomized Controlled Effectiveness Trial on Odyssey Math in the Mid-Atlantic Region, Regional Educational Laboratory – Mid-Atlantic, U.S. Department of Education. \$3.6 Million
- Peck, K. Terenzini, P., Wijekumar, K., Clariana, R., Van Horn, B., Prinz, E., Boyd, W., Cecil, H., Hartman, W., Hold, M.K., Hughes, C. Johnson, K., LeTendre, G., Melnick, S., Meyer, B.J.M., Nelson, K. (2006-2011) Mid-Atlantic Collaborative for Applied Research in Education (REL Mid-Atlantic). \$29 million.
- Wijekumar, K., Maher, Y. & Meyer, B.J.F (2005-2007). Intelligent Tutoring for the Structure Strategy in Fayette County Schools. Award from the Claude Worthington Benedum Foundation. \$169,000.

Meyer, B.J.F., Wijekumar, K., Middlemiss, W. & VanHorn, B. (2003-2007). Intelligent Tutoring Using the Structure Strategy to Improve Reading Comprehension of Middle School Students. United States Department of Education \$1.2 million.

Meyer, B.J.F., Wijekumar, K. (2004). Computers for the ITSS Schools. United States Department of Education, \$43,000.

Wijekumar, K. (2003). Intelligent Tutoring Systems Pilot Tests. Research and Development Grant, Penn State Commonwealth College, \$2200

Wijekumar, K. (2002) Investigating the use of Software Agents for Mentoring Women in Information Sciences, Research Development Grant, Penn State Commonwealth College, \$2500.

Wijekumar, K. (2001) Prose on the WWW, Research Development Grant, Penn State Commonwealth College, \$3000.

Eddy, R, Wood, J.T., Andrew, A. Wijekumar, V. & Wijekumar, K. (2001-2005). Weapons of Mass Destruction - REALTI-CTC Grant \$250,000

Grants Submitted

Wijekumar, K., McKeown, D., Beerwinkle, A., Zhang, S. (2019). Longitudinal Analysis of English Learners. US Department of Education, 1.6 million dollars

Wijekumar, K., Beerwinkle, A., Cromley, J. (2019). Promoting Reading in Science and Mathematics (PRISM). US Department of Education, 1.5 million dollars

Joshi, R.M., Wijekumar, K., Cantrell, E., Lei, P (2019). Efficacy and replication trial of the Neuhaus Reading Materials. US Department of Education, 3.3 Million

PUBLICATIONS

Wijekumar, K., Beerwinkle, A., McKeown, D., Zhang, S., & Joshi, R. M. (in press). *The “gist” of the reading comprehension problem in grades 4 and 5*. *Dyslexia: An International Journal of Research and Practice* | Impact Factor: 1.568 | data-based, quantitative.

Wijekumar, K., Meyer, B.J.F., Lei, P., & Beerwinkle, A. L. (in press). Supplementing Teacher Knowledge Using Web-Based Intelligent Tutoring System to Improve Content Area Reading Comprehension with 4th and 5th Grade Struggling Readers, *Dyslexia: An*

- Graham, S., Wijekumar, K., Harris, K.R., Lei, P., Fishman, E., Ray, A., & Houston, J. (2019). Writing skills, knowledge, motivation, and strategic behavior predict students' persuasive writing performance in the context of robust writing instruction. *Elementary School Journal*.
- Wijekumar, K., Graham, S., Harris, K.R., Lei, P., Barkel, A., Aitken, A., Ray, A., & Houston, J. (2019). The roles of writing knowledge, motivation, strategic behaviors, and skills in predicting elementary students' persuasive writing from source material. *Reading & Writing: An Interdisciplinary Journal*.
- Wijekumar, K., Beerwinkle, A., Joshi, R.M. (2019). Etiology of teacher knowledge and instructional skills for literacy at the upper elementary grades, *Annals of Dyslexia*, 69(1), 5-20, DOI: 10.1007/s11881-018-00170-6
- Xu, Z., Wijekumar, K., Ramirez, G., Hu, X., & Irey, R. (2019). The effectiveness of intelligent tutoring systems on k-12 students' reading comprehension: A meta-analysis. *British Journal of Educational Technology*, 50, 3119-3137. (IF 2017: 2.729)
- Xu, Z., Banerjee M., Ramirez G., Zhu G., & Wijekumar K. (2019). The effectiveness of educational technology applications on adult English language learners' writing quality: A meta-analysis. *Computer Assisted Language Learning*, 32, 132-162. DOI: 10.1080/09588221.2018.1501069 (IF 2017: 1.928)
- Wijekumar, K., Rolando, J., Barnes, R., & Winso, J. (2018). Virtual Reality Instruction for First Responders. *Professional Safety*. December.
- Wijekumar, K., Meyer, B.J.F., Lei, P-W, Hernandez, A., August, D. (2018). Effects of web-based text structure instruction for 4-6th grade Spanish Els reading comprehension. *Reading and Writing: An Interdisciplinary Journal*, 31,9: 1969-1996.
- Beerwinkle, A., Wijekumar, K., Walpole, S. & Aguis, R. (2018). An Analysis of the Ecological Components within a Text Structure Intervention, *Reading and Writing: An Interdisciplinary Journal* , 31,9: 2041-2064.
- Ji, Xuejuen, Beerwinkle, A. & Wijekumar, K. (2018). Using Latent Transition Model to Identify Effects of an Intelligent Tutoring System on Reading Comprehension, *Reading and Writing: An Interdisciplinary Journal* , 31,9: 2095-2113.
- Meyer, B.J.F.,& Wijekumar, K. (2018) Comparative Signaling Words Generated for Expository Texts by 4th - 8th Graders: Variations by Reading Comprehension Levels and Text Structure Strategy Intervention, *Reading and Writing: An Interdisciplinary Journal* , 31,9: 1937-1968.

- Wijekumar, K., Meyer, B. J. F., & Lei, P. (2017). Web-based text structure strategy instruction improves seventh graders' content area reading comprehension. *Journal of Educational Psychology*, 109(6), 741-760. <http://dx.doi.org/10.1037/edu0000168>
- Wijekumar, K., Meyer, B.J.F., Lei, P., Xuejun, J., Joshi, R.M. (2017, April 5). Evidence of an Intelligent Tutoring System as a Mindtool to Promote Strategic Memory of Expository Texts and Comprehension with Children in Grades 4 and 5. *Journal of Educational Computing Research*. DOI: 10.1177/0735633117696909
- Wijekumar, K., Meyer, B.J.F., Lei, P.-W, Lin, Y., Johnson, L.A., Shurmatz, K., Spielvogel, J., Ray, M., & Cook, M. (2014). Improving reading comprehension for 5th grade readers in rural and suburban schools using web-based intelligent tutoring systems. *Journal of Research in Educational Effectiveness*, 7:4, 331-357, DOI: [10.1080/19345747.2013.853333](https://doi.org/10.1080/19345747.2013.853333)
- Meyer, B. J. F., & Wijekumar, K. K., (2014). Why fifth- and seventh- graders submit off-task responses to a web-based reading comprehension tutor rather than expected learning responses. *Computers & Education* (2014), <http://dx.doi.org/10.1016/j.compedu.2014.02.013>
- Wijekumar, K., Meyer, B.J.F., Lei, P.-W. (2013). High-fidelity implementation of web-based intelligent tutoring system improves fourth and fifth graders content area reading comprehension. *Computers & Education*, 68, 366-379.
- Wijekumar, K., Meyer, B.J.F., Lei, P. (2012). Large-scale randomized controlled trial with 4th graders using intelligent tutoring of the structure strategy to improve nonfiction reading comprehension. *Journal of Educational Technology Research and Development*. 60, 987-1013.
- Wijekumar, K., & Forlenza. (2012). Education Practitioners' Consumption of Research. *Journal of the Pennsylvania Association for Curriculum Development*.
- Meyer, B.J.F., Wijekumar, K. K., & Lin, Y. (2011). Individualizing a Web-Based Structure Strategy Intervention for Fifth Graders' Comprehension of Nonfiction. *Journal of Educational Psychology*, 103 (1), 140-168.
- Meyer, B.J.F., Wijekumar, K., Middlemiss, W., Higley, Lei, P., K., Meier, C., Spielvogel, J., (2010). Web-Based Tutoring of the Structure Strategy With or Without Elaborated Feedback or Choice for Fifth- and Seventh-Grade Readers. *Reading Research Quarterly*, 45(1) 62-92.
- Wijekumar, K., Hitchcock, J., Turner, H.W., Lei, P, Peck, K. (2009). A Multisite Cluster Randomized Trial of the Effects of CompassLearning Odyssey® Math on the Math Achievement of Selected Grade 4 Students in the Mid-Atlantic Region. NCEE 2009-4068: <http://www.eric.ed.gov/PDFS/ED507314.pdf>

- Wijekumar, K. and Hitchcock, J. (2009). The Effects of Odyssey® Math on Grade 4 Student Math Achievement in the Mid-Atlantic Region. Brief Report Published by the U.S. Department of Education. Available at http://ies.ed.gov/ncee/edlabs/projects/rct_26.asp retrieved on July 3, 2009.
- Wijekumar, K. & Jonassen, D.H. (2007). The Effects of Tool Expertise on Ill-Structured Problem Solving, *Computers in Human Behavior*. Vol. 23, Issue 1, January 2007, pp 664-704.
- Wijekumar, K. & Spielvogel, J. (2006). Intelligent Discussion Boards© –Promoting Deep Conversations in Asynchronous Discussion Boards through Synchronous Support. *IEEE Campus-Wide Information Systems - The international journal of information and learning technology* Vol. 23, No. 3, 221-232.
- Wijekumar, K. & Meyer, B.J.F. (2006). Design and pilot of a web-based intelligent tutoring system to improve reading comprehension in middle school students. *International Journal of Technology in Teaching and Learning*, 2(1), p 36-49.
- Wijekumar, K., Meyer, B.J.F., Ferguson, L. & Wagoner, D. (2006). Technology Affordances: The “Real Story” in Research with K-12 and Undergraduate Learners. *British Journal of Educational Technology: Special Issue on Technology Effects*. January 2006, Vol 37, 191-209.
- Wijekumar, K. & Ferguson, L. & Wagoner, D. (2006) Problems with Assessment Validity and Reliability in Web-Based Distance Learning Environments and Solutions. *Journal of Educational Multimedia and Hypermedia*, Vol. 15, No.2, p 199-216.
- Wijekumar, K. (2005) Research and Practice to Inform the Creation of Effective Web-Based Learning Environments. *Innovate*. Vol. 1, Issue 5, June-July 2005. Available at: <http://www.innovateonline.info/index.php?view=article&id=26>
- Wagoner, D. & Wijekumar, K. (2004). Improving Self-Awareness of Nutrition and Lifestyle Practices through On-Line Journaling. *Journal of Nutrition Education and Behavior*, 211-212. Vol. 26, No.4, Jul-Aug 2004.
- Cameron, B. & Wijekumar, K (2003). “The Effectiveness of Simulation in a Hybrid and On-line Networking Course”. *Association for Computing Machinery, Special Interest Group on Computer Science Education*. Feb 2003
- Ferguson, L. & Wijekumar, K. (2000). Developing Web-Based Learning Environments for Safety Sciences. *The Journal of the American Society of Safety Engineers*.

Wijekumar, K. (1999). Evaluating Collaborative Learning. In Tech Times: The Newsletter of the Pennsylvania Association for Educational Communications and Technology, Fall Issue.

Manuscripts in Review

Lindner, A., Wijekumar, K., Joshi, R.M. (2019). Latent Class Analyses of Spelling Errors Among Monolingual and Spanish Speaking English Learners. Submitted for publication.

Bannerjee, M., Xi, Z., & Wijekumar, K. (2019). A Strategic Synthesis of Learning Technologies Through a Sociocultural Lens, Submitted for publication

Feng, L., Guo, D., Jiang, W., Joshi, R.M., & Wijekumar, K. (2018). Profiles of Poor Comprehenders across Different Orthographies: A Meta-analytic Review. Submitted for publication.

Lee, J., Chow, S-M., Lei, P-W, Wijekumar, K., & Molenaar, P. (submitted) A Dynamic Analysis of Lesson Progression within the Intelligent Tutoring System of Structure Strategy (ITSS)

Wijekumar, K., Meyer, B.J.F., Lei, P., Lin, Y., Johnson, L.A., Shurmatz, K., Spielvogel, J. (2018). Curricular intrusions in learning environments: problems and solutions. Paper submitted for publication.

Wijekumar, K. Meyer, B.J.F., Lei, P., Johnson, L., & Spielvogel, J. (2019). Efficacy of a web-based tutoring system in improving 8th graders content area comprehension. Paper submitted for publication.

Non-Refereed Publications at National Level Published by U.S. Department of Education

Wijekumar, K., McKeown, D., Joshi, R.M., Thompson, J. (2019). Supporting Effective Educator Development (SEED) Massively Open Online Virtual (MOOV) system. Annual Report Year 1.

Wijekumar, K., Meyer, B.J.F., & Lei, P. (2019). Framework for Accelerating Strategic Comprehension of Text with High Poverty Schools – Grades 4 through 6. Annual Report to the U.S. Department of Education Institute of Education Sciences – FASCT Efficacy Replication. Year 4 Report

Wijekumar, K., Harris, K.R., Graham, S., Meyer, B.J.F., & Lei, P-W (2019). Development of a web-based writing project (we-write persuasively) to improve writing persuasive

essays for 5th graders. Annual Report to the U.S. Department of Education Institute of Education Sciences Year 2 Report.

Wijekumar, K., Meyer, B.J.F., & Lei, P. (2019). Strategy Instruction on the Web for English Learners (SWELL) Efficacy – Grades 4 through 6. Annual Report to the U.S. Department of Education Institute of Education Sciences – FASCT Efficacy Replication, Year 2 Report

Wijekumar, K., Meyer, B.J.F., & Lei, P. (2018). Framework for Accelerating Strategic Comprehension of Text with High Poverty Schools – Grades 4 through 6. Annual Report to the U.S. Department of Education Institute of Education Sciences – FASCT Efficacy Replication, Year 3 Report.

Wijekumar, K., Harris, K.R., Graham, S., Meyer, B.J.F., & Lei, P-W (2018). Development of a web-based writing project (we-write persuasively) to improve writing persuasive essays for 5th graders. Annual Report to the U.S. Department of Education Institute of Education Sciences Year 4.

Wijekumar, K., Meyer, B.J.F., & Lei, P. (2018). Framework for Accelerating Strategic Comprehension of Text with High Poverty Schools – Grades 4 through 6. Annual Report to the U.S. Department of Education Institute of Education Sciences – FASCT Efficacy Replication Year 3 Report

Wijekumar, K., Meyer, B.J.F., & Lei, P. (2017). Framework for Accelerating Strategic Comprehension of Text with High Poverty Schools – Grades 4 through 6. Annual Report to the U.S. Department of Education Institute of Education Sciences – FASCT Efficacy Replication Year 4 Report

Wijekumar, K., Harris, K.R., Graham, S., Meyer, B.J.F., & Lei, P-W (2017). Development of a web-based writing project (we-write persuasively) to improve writing persuasive essays for 5th graders. Annual Report to the U.S. Department of Education Institute of Education Sciences Year 4.

Wijekumar, K., Meyer, B.J.F., & Lei, P. (2016). Framework for Accelerating Strategic Comprehension of Text with High Poverty Schools – Grades 4 through 6. Annual Report to the U.S. Department of Education Institute of Education Sciences – FASCT Efficacy Replication

Wijekumar, K., Meyer, B.J.F., Lei, P., & Hernandez, A. (2016). Improving Reading Comprehension of Middle Grades English Language Learners by Combining Structure Strategy with Web-Based Adaptive Tutoring for EL Learners (SWELL) Final Report to the U.S. Department of Education Institute of Education Sciences – SWELL Development.

- Wijekumar, K., Harris, K.R., Graham, S., Meyer, B.J.F., & Lei, P-W (2016). Development of a web-based writing project (we-write persuasively) to improve writing persuasive essays for 5th graders. Annual Report to the U.S. Department of Education Institute of Education Sciences Year 3.
- Wijekumar, K., Meyer, B.J.F., Lei, P., & Hernandez, A. (2015). Improving Reading Comprehension of Middle Grades English Language Learners by Combining Structure Strategy with Web-Based Adaptive Tutoring for EL Learners (SWELL) Annual Report to the U.S. Department of Education Institute of Education Sciences – SWELL Development Year 3
- Wijekumar, K., Harris, K.R., Graham, S., Meyer, B.J.F., & Lei, P-W (2015). Development of a web-based writing project (we-write persuasively) to improve writing persuasive essays for 5th graders. Annual Report to the U.S. Department of Education Institute of Education Sciences Year 2.
- Wijekumar, K., Meyer, B.J.F., Lei, P., & Schwartz (2014). Improving Reading Comprehension of Middle Grades English Language Learners by Combining Structure Strategy with Web-Based Adaptive Tutoring for EL Learners (SWELL) Annual Report to the U.S. Department of Education Institute of Education Sciences – SWELL Development Year 2.
- Wijekumar, K., Harris, K.R., Graham, S., Meyer, B.J.F., & Lei, P-W (2014). Development of a web-based writing project (we-write persuasively) to improve writing persuasive essays for 5th graders. Annual Report to the U.S. Department of Education Institute of Education Sciences Year 1.
- Wijekumar, K., Meyer, B.J.F. & Lei, P. (2013). Final Report to the U.S. Department of Education Institute of Education Sciences – Randomized Controlled Trial on the efficacy of ITSS in Improving Reading Comprehension with rural and suburban 7th and 8th graders.
- Wijekumar, K., Meyer, B.J.F., Lei, P., & Schwartz (2013). Annual Report to the U.S. Department of Education Institute of Education Sciences – SWELL Development Year 1.
- Wijekumar, K., Meyer, B.J.F. & Lei, P. (2011). Annual Report to the U.S. Department of Education Institute of Education Sciences – Randomized Controlled Trial on the efficacy of ITSS in Improving Reading Comprehension with rural and suburban 7th and 8th graders.
- Wijekumar, K., Meyer, B.J.F. & Lei, P. (2010). Annual Report to the U.S. Department of Education Institute of Education Sciences – Randomized Controlled Trial on the

efficacy of ITSS in Improving Reading Comprehension with rural and suburban 4th and 5th graders.

Wijekumar, K., Meyer, B.J.F. & Lei, P. (2009). Annual Report to the U.S. Department of Education Institute of Education Sciences – Software updates and school recruitment for the randomized controlled efficacy trial on ITSS.

PARTS OF BOOKS

Peti-Stantic, A, Wijekumar, K., Limpo, T., & Joshi, M. Eds (2018). A comparative portrait of elementary and middle grade language arts instruction across the world. Springer.

Wijekumar, K. (2017). Spanish Speaking English Learners Interactions with a Web-Based Tutoring System for Reading Comprehension. In Doris Lufts-Baker (Ed.) *Second Language Acquisition: Methods, Perspectives, and Challenges*. Hauppauge, NY: Nova Science Publishers.

Wijekumar, K. (2017). Text Structures as a Means to Promoting Computational Thinking. CEIST Compilation.

Wijekumar, K., Meyer, B.J.H., Harris, K., Graham, S., Lei, P-W, Beerwinkle, A. (2016). Comparing Learning Outcomes and Implementation Factors from Student-Managed vs. Teacher-Managed Intelligent Tutoring Systems. In Robert K. Atkinson (Ed.) *Intelligent Tutoring Systems: Structure, Applications and Challenges*. Hauppauge, NY: Nova Science Publishers.

Wijekumar, K., Meyer, B.J.F., & Lei, P-W (2016). Improving content area reading comprehension with 4-6th grade Spanish ELLs using web-based structure strategy instruction. In J. Michael Spector, Dirk Ifenthaler, Demetrios G. Sampson, and Pedro Isaias (Eds). *Competencies in Teaching, Learning and Educational Leadership in the Digital Age: Papers from CELDA 2014*, Springer.

Wijekumar, K. Harris, K., Graham, S., & Meyer, B.J.F. (2016). We-Write: A Teacher and Technology Supported Persuasive Writing Tutor for Upper Elementary Students. In S. Crossley & D. S. McNamara (Eds.) *Adaptive Educational Technologies for Literacy Instruction*. New York, NY: Routledge Publishers – Taylor & Francis Group.

Meyer, B.J.F. & Wijekumar, K. (2016). Web-based intelligent tutoring for the structure strategy. In S. Crossley & D. S. McNamara (Eds.) *Adaptive Educational Technologies for Literacy Instruction*. New York, NY: Routledge Publishers – Taylor & Francis Group.

- Wijekumar, K. & Meyer, B. J. F. (2013). Comprehension using the strategic organization of text aided by a web-based intelligent tutoring system: A text and computer based mindtool. In J. M. Spector, B. B. Lockee, S. E. Smaldino, & M. C. Herring. *Learning, Problem Solving, and Mind Tools*. New York, NY: Routledge Publishers – Taylor & Francis Group.
- Wijekumar, K. (2010) Designing and Developing Web-Based Intelligent Tutoring Systems: A Step-by-Step Approach with Practical Applications. *Handbook of On-line Learning*. K. Rudestrom (Eds.)
- Wijekumar, K. (2009) Borrowing from Intelligent Tutoring Technologies to Improve Learning in Distance Learning Environments. *Encyclopedia of Distance and On-line Learning*. Patricia Rogers Ph.D., Gary Berg Ph.D., Judith Boettcher Ph.D., Carole Howard Ph.D., Lorraine Justice Ph.D., Karen Schenk Ph.D. (Eds.)
- Meyer, B. J. F., & Wijekumar, K. (2007). A Web-Based Tutoring System for the Structure Strategy: Theoretical Background, Design, and Findings. In D.S. McNamara (Ed.), *Reading comprehension strategies: Theories, interventions, and technologies*, pp. 347-375. Mahwah, New Jersey: Lawrence Erlbaum Associates.
- Wijekumar, K. (2003). Web-based course management systems. In *Encyclopedia of distance learning*, Thousand Oaks, CA: Sage Publications.

PROFESSIONAL DEVELOPMENT SESSIONS

Dr. Wijekumar has conducted over 200 professional development sessions on reading comprehension, writing, and technologies for learning throughout the world.

PUBLIC RADIO OUTREACH FOR FAMILIES

Over 40 segments have been created and aired on the Public Radio Station,
KAMU.TAMU.EDU
Available in English and Spanish

Comprehension:

<http://fmstream.kamu.tamu.edu/Podcasts/LiteracyMatters/2018/060618.mp3>

Remember More:

<http://fmstream.kamu.tamu.edu/Podcasts/LiteracyMatters/2018/061318.mp3>

Generating Inferences:

<http://fmstream.kamu.tamu.edu/Podcasts/LiteracyMatters/2018/062018.mp3>

Reading Comprehension #2

<http://fmstream.kamu.tamu.edu/Podcasts/LiteracyMatters/2018/062718.mp3>

Learning to read:

<http://fmstream.kamu.tamu.edu/Podcasts/LiteracyMatters/2018/070418.mp3>

Reading Comprehension #3

<http://fmstream.kamu.tamu.edu/Podcasts/LiteracyMatters/2018/071118.mp3>

Three logical structures:

<http://fmstream.kamu.tamu.edu/Podcasts/LiteracyMatters/2018/082218.mp3>

Videos for Dissemination

English and Spanish

Comparison Video

http://youtu.be/d_ZL0yEeUac

Spanish Comparison Video

<https://youtu.be/p52rbxWwIxQ>

Problem and Solution Video

<http://youtu.be/gEEXvMPMU2k>

PRESENTATIONS, CONFERENCES (Selected List)

Wijekumar, K. (2020). Keynote Address for the American Educational Communications Technology Conference, Jacksonville, FL, Nov, 2020.

Ji, X.R., Wu, A.D., & Wijekumar, K. (accepted). Investigating the skill hierarchies in reading comprehension. Paper to be presented at the 2020 Annual Meeting of the National Council on Measurement in Education. San Francisco, CA.

Owens, J.K., McKeown, D., & Wijekumar, K. (2020). A Mixed Methods Analysis of the Role of Administration and the Effects of Principal Accountability on Teacher Implementation Fidelity of a Evidence Based Writing Intervention. Society for Research in Educational Effectiveness, March 2020.

Zhang, S., Wijekumar, K., Fitzhugh, S., & McKeown, D. (2020). Recognizing the Growth Made by Students with Limited English Proficiency: A Latent Growth Curve Approach. Society for Research in Educational Effectiveness, Washington D.C., March 2020.

Banerjee, M., Wijekumar, K., McKeown, D., Joshi, R.M., Thompson, J. (2020). Effects of Web-Based Teacher Professional Development About Elementary Grade Reading Comprehension. Society for the Scientific Study of Reading, Newport, CA, July 2020.

McKeown, K., Wijekumar, K., Owens, J., Harris, K.R., & Graham, S. (2020). Pragmatic Computer-Based Formative and Summative Writing Assessments. Society for the Scientific Study of Reading, Newport, CA, July 2020

- Wijekumar, K., McKeown, D., Garza, J. Owens, J.K., Moore, K.A. (2020). The Power of Systematic Evidence-Based Reading Instruction = 100% Pass Rates for All Learners in Grade 3 to 5. Texas Association for School Administrators, Mid-Winter Conference, Austin, TX, January 2020.
- Zhang, S., Mckeown, D., Wijekumar, K. (2019, December). *Self-efficacy of writing among Grade 4 students: A deeper look into psychometric properties of items and survey design*. Paper presented at the annual meeting of American Reading Forum. Sanibel, FL.
- Zhang, S., Wijekumar, K., & Fitzhugh, S. (2019, November). *The power of assessment FOR learning over assessment OF learning*. Paper presented at the annual Texas Assessment/TACTP Conference. Austin, TX.
- Wijekumar, K., McKeown, D., Garza, J. (2019). Ensuring Success for Every Child. Texas Association for School Administrators Conference on Accountability Systems. Georgetown, TX, November 2019.
- Hayes, K. & Wijekumar, K. (2019). Report on Teacher Turnover for Accountability Systems. Texas Association for School Administrators Conference on Accountability Systems. Georgetown, TX, November 2019.
- Fitzhugh, S., Wijekumar, K., & Zhang, S., (2019). Indicators of student progress and impacting student outcomes. Texas Association for School Administrators, Assessment Conference, Georgetown, TX, November 2019.
- Ealy, C., Perry, M., Wijekumar, K., & Hayes, K. (2019). Case study on the College Station ISD Community-Based Accountability Systems Progress. Texas Association for School Administrators, Assessment Conference, Georgetown, TX, November 2019.
- Wijekumar, K., McKeown, D., & Owens, J.K., (2019). Psychometrics of Standardized Tests: What Exactly Do They Measure?. Texas Association for School Administrators, Assessment Conference, Georgetown, TX, November 2019.
- Wijekumar, K. (2019). Computer Based Assessments in Writing. International Literacy Association Conference, New Orleans, LA, October 2019.
- Wijekumar, K., Owens, J.K., Garza, J., Harris, K.R., & Graham, S. (2019). We-Write teacher-led computer supported instruction makes successful writers. World Educational Research Association, Tokyo, Japan, July 2019.
- Xu. Z., Wijekumar, K., Zhang S. (2019). The effects of text-structure instruction on English learners' reading comprehension and strategies. Annual Meeting of Society for the Scientific Studies of Reading, Toronto, Jul. 17-20, 2019.

- Pirnay-Dummer, P., Wijekumar, K., Meyer, B.J.F. (2019). Developments in Syntax-Based Prescoring and Autoscoring on Short Written Answers. American Educational Research Association, Toronto, Canada, April 2019.
- Xu, Z, Wijekumar, K., Zhang, S., Nan, B., Banerjee, M. (2019). Transforming Reading Strategies of Chinese English learners through the use of web-based text structure instruction. American Educational Research Association, Toronto, Canada, April 2019.
- Xu, Z., Wijekumar, K., Zhang, S., Nan, B. & Banerjee, M. (2019). Transforming reading strategies of Chinese English learners through the use of web-based text structure instruction. Annual Meeting of American Educational Research Association, Toronto, Apr. 5-9, 2019.
- Zhang, S., Lei, P., Wijekumar, K., Banerjee, M. (2019, March). *Latent profile and transition analysis of reading proficiency among grade 4 students: The intervention effect of the intelligent tutoring system*. Paper presented at the annual meeting of the Society for Research on Educational Effectiveness: SREE. Washington, D.C.
- Wijekumar, K. Harris, K.R., & Graham, S. (2019). Scaling up We-Write. Pacific Coast Research Conference – Coronado, CA, February 2019.
- Wijekumar, K. (2019). Mining student interaction data from the web-based intelligent tutoring system. Stella Maris Colege, Chennai, India, February 2019.
- Wijekumar, K., Beerwinkle, A.L., & Garza, J. (2019). Super improvements in reading comprehension with the framework for accelerating strategic comprehension of text. Texas Association of School Administrators, Mid-Winter Conference, Austin, Texas, January 2019
- Wijekumar, K. (2018) Randomized Controlled Trials in Education, European Literacy Network COST Action Conference, Porto, Portugal, November 2018.
- Pirnay-Dummer, P., Wijekumar, K., & Harris, K. (2018 July). New Methods and Limitations of using Syntax-Based Prescoring on Short Answers, SIG Writing, Antwerp Belgium.
- Beerwinkle, A., & Wijekumar, K. (2018) Text Structures in Middle School Science Instruction. American Educational Research Conference, New York, NY, April 2018
- Beerwinkle, A., & Wijekumar, K. (2018) Intelligent Tutoring Systems for the Text Structure Strategy. European Literacy Network Conference, Porto, Portugal, November 2018

- Wijekumar, K., Garza, J., Beerwinkle, A., & Zhang, S. (2018) Researcher and practitioner perspectives on improving content area reading comprehension. European Literacy Network Conference, Porto, Portugal, November 2018
- Wijekumar, K., Bannerjee, M., Beerwinkle, & Zhang, S. (2018) Improving reading comprehension for all learners. Brownsville Independent School District Literacy Conference, October 2018.
- Wijekumar, K. & Pirnay-Dummer, P. (2017). Scoring of Recalls in Writing and Reading, Challenges and Solutions, Brandenburg University, Germany, November 2017
- Wijekumar, K. (2017). Keynote: Powerful reading comprehension results with teacher-led technology integration across the globe. European Literacy Network Conference on Reading Comprehension, Lyon, France, November 2017
- Wijekumar, K. (2017). Pragmatic Scaffolding for Computational Thinking Using Text Structures: Theoretical and Empirical Lenses on K-12 Classrooms, 8th Annual International Conference on Computer Science Education: Innovation & Technology, Fort Canning, Singapore, October 2017
- Wijekumar, K. & Beerwinkle, A.L. (2017). Improving content area reading comprehension – super results from a recent study. School Impact Summit, Brownsville, TX, September 2017
- Wijekumar, K. (2017) Text Structure in the Classrooms, Brownsville Independent School District Opening Day Conference for Administrators., August 2017.
- Joshi, R.M. & Wijekumar, K. (2017). Symposium: Teacher perception and teacher knowledge about literacy skills. Society for the Scientific Study of Reading Conference, Nova Scotia, Canada, July, 2017.
- Wijekumar, K., Graham, S., Harris, K., & Meyer, B.J.F. (2017). Teacher perception and teacher knowledge about reading and writing at upper elementary grade level, Society for the Scientific Study of Reading Conference, Nova Scotia, Canada, July, 2017.
- Lindner, A., Wijekumar, K., & Joshi, R.M. (2017). English Spelling Errors Among English Language Learners: A Latent Class Analysis Study. Society for the Scientific Study of Reading Conference, Nova Scotia, Canada, July, 2017.
- Wijekumar, K. (2017). Promoting Reading Comprehension and Writing with Text Structures. Kenyatta University Seminar Series, Nairobi, Kenya, June 2017
- Pirnay-Dummer, P.N., Wijekumar, K. & Graham, S. (2017). Using Automatically Computed Type-of-Word Chains in Linear Models to Predict Topic-Relatedness and Quality of

Writing, American Educational Research Association Annual Conference, San Antonio, TX April 2017

Wijekumar, K., Meyer, B.J.F., Lei, P., Hernandez, A., & Beerwinkle, A., (2017). Elementary Spanish-Speaking English Learners Improve in Comprehension With Text Structure Instruction on the Web. American Educational Research Association Annual Conference, San Antonio, TX April 2017

Ji, X.R., Wijekumar, K., Meyer, B.J.F., Lei, P., Joshi, R.M. (2017). Using Latent Transition Model to Identify Effects of an Intelligent Tutoring System on Reading Comprehension, American Educational Research Association Annual Conference, San Antonio, TX April 2017

Jiang, X., Lei, P-W., Meyer, B. J. F., & Wijekumar, K. (2017, October). Exploring the diagnostic capacity of a standardized reading comprehension test. Poster presented at the annual meeting of the Northeastern Educational Research Association, Trumbull, CT.

Li, X., Lei, P.-W., Meyer, B.J.F, & Wijekumar,K. (2017, April). Comparison of Bi-factor and Unidimensional IRT Model for Reading Comprehension Test. Poster presented at the

Wijekumar, K. (2017). Fourth- and Fifth-Grade Struggling Readers Show Strong Improvements in Reading Comprehension When Taught the Structure Strategy Using a Web-Based Tutoring System, American Educational Research Association, Annual Meeting, San Antonio, TX April 2017

Wijekumar, K. & Beerwinkle, A. L. (2017). School Impact Summit, San Antonio, TX April 2017

Li, X., Lei, P.-W., Meyer, B.J.F, & Wijekumar,K. *Comparison of Bi-factor and Unidimensional IRT Model for Reading Comprehension Test*. . Poster session presented at the 2017 Annual Meeting of the National Council on Measurement in Education, San Antonio, TX.

Wijekumar, K. (2017). Symposium on Text Structure Impact on Reading and Writing. Annual Meeting of the Society for Research in Educational Effectiveness, Washington DC. March 2017

Wijekumar, K. (2016). Successful progression from Goal 2 to Goal 3 grant projects. Invited presentation at the Annual Principal Investigators Meeting of the US Department of Education, Institute of Education Sciences, Washington D.C. December 2016.

Wijekumar, K. (2016) Text structure-based reading and writing programs for schools. Presentation at The University of Malta, November, 2016.

- Wijekumar, K. (2016). Mentoring African American Children through K-12 Schools. Shell Educational Initiatives Group, Beaver, PA, November 2016.
- Wijekumar, K. (2016). Scaffolding fourth and fifth graders'™ learning of text structure strategy using intelligent tutoring, Presentation at the 2016 Technology and Media in Children's Development Special Topic Meeting , Irvine, CA, October 2016.
- Wijekumar, K. (2016). Technology solutions for literacy. Annual School Impact Summit, The Woodlands, TX, October 2016.
- Wijekumar, K. (2016). Web-based tutoring systems for reading comprehension and writing. Huntsville Independent School District Leadership Retreat. September 2016.
- Wijekumar, K. (2016). Self-Regulated Strategies Development Model for Writing at Elementary Grades. Aldine Independent School District. August 2016.
- Wijekumar, K. (2016). Writing Theory and Self-Regulated Strategies Development Model Based Interventions at the Elementary Grades. Annual Conference of the Society for Scientific Study of Reading, Porto, Portugal, July 2016.
- Wijekumar, K., Harris, K.R., Graham, S., Lei, P-W., & Meyer, B.J.F. (2016). Reading comprehension and persuasive writing with sources. Presentation at the SIG-Writing Conference, Liverpool, UK, July 2016.
- Wijekumar, K. (2016). American Psychological Association, Annual Conference, Judge for Poster Session and presentation at Co-Chairs Meeting. Denver, CO, June 2016.
- Wijekumar, K., Meyer, B.J.F., Lei, P-W., Hernandez, A., & August, D. (2016). Upper Elementary Grade Spanish speaking English Language Learners Show Improvement in Reading Comprehension. Presentation at the Annual Conference of the World Educational Research Association, Washington, DC, April 2016.
- Wijekumar, K. (2016). Improving content area reading comprehension with Spanish speaking English learners. Presentation at the Annual Kidd Literacy Conference, New Mexico State University. March 2016.
- Wijekumar, K. (2015). Text structure based comprehension using web-based intelligent tutoring systems. European Literacy Network Working Group Conference in Prague, Czech Republic, Nov 2015.
- Kavanaugh, C., Graham, S., Wijekumar, K., Harris, K.R., Houston, J., Ray, A., Barkel, A., & Aitkens, A. (2015, February). A test of the domain model of learning with writing. Poster presented at Pacific Coast Research Conference, San Deigo, CA.

- Aitken, A, Barkel, A., Graham, S., Wijekumar, K., Harris, K.R., Kavanaugh, C., Ray, A., & Cuningham, J. (2015, February). Does the quality of structural elements predict overall writing quality. Poster presented at Pacific Coast Research Conference, San Deigo, CA.
- Wijekumar, K., Meyer, B.J.F., Lei, P-W., Hernandez, A., & Montelongo, J. (2015). Improving content area reading comprehension with Spanish speaking English Language Learners in Grades 4-6. Presentation at the Annual Conference of the Society for the Scientific Study of Reading, Waikaloa, HI, July 2015.
- Wijekumar, K., Meyer, B.J.M, & Lei, P-W (2015). Efficacy of the web-based intelligent tutoring system for the structure strategy with 4th and 5th-grade students in high poverty schools . American Educational Research Association Annual Conference. Chicago, IL, April 2015.
- Wijekumar, K., Meyer, B.J.M, & Lei, P-W (2015). The power of text structure in reading and comprehending expository texts. Society for Research in Educational Effectiveness Conference. Washington, D.C., March 2015.
- Wijekumar, K., Meyer, B.J.M., Hernandez, A., Montelongo, J., Oemig, P., Wall, F.S., & Esquivel, J. (2015). Results from field tests of the SWELL system to improve content area reading comprehension with children in grades 4-6. KIDD Literacy Conference. Las Cruces, NM, March 2015.
- Wijekumar, K., Meyer, B.J.M, & Lei, P-W (2014). Improving Content Area Reading Comprehension with 4-6th Grade Spanish Ells using Web-based Structure Strategy Instruction. Cognition and Eploratory Learning in the Digital Age (CELDA) International Conference - 2014.
- Wijekumar, K., Meyer, B.J.M, Lei, P-W, & Hernandez, A. (2014). Small Steps to Big Gains Reading Comprehension With 4th, 5th, and 6th Grade Spanish-Speaking English Language Learners. American Educational Research Association Annual Conference. Philadelphia, PA.
- Wijekumar, K. (2014). Practice Makes Permanent – Consequences for Learning. Association for Educational Communications and Technology - Annual Conference.
- Wijekumar, K., Meyer, B.J.F., & Lei, P. (2013). [*Is Learning Road-Kill on the Information Highway?*](#) American Educational Research Association Annual Conference, San Francisco, CA, April 2013.
- Meyer, B.J.F., & Wijekumar, K. (2013). [*Automated Feedback and Online Individualization of Reading Comprehension Instruction.*](#) American Educational Research Association Annual Conference, San Francisco, CA, April 2013.

- Wijekumar, K., Meyer, B.J.F., & Lei, P. (2012). The Efficacy of a Web-based Intelligent Tutoring System Designed to Teach the Structure Strategy to 5th Grade Students American Educational Research Association Annual Conference, Vancouver, British Columbia, April 2012.
- Wijekumar, K., Garza, R., Cychol, V., Clise, J., Knotek, E.W., Watt, J., Rorick, D. (2012). Real-Life Problem-Based Learning Environments as a Learning Tool in Information Sciences and Technology. Information Systems – IADIS International Conference, March 10-12, 2012, Berlin, Germany.
- Wijekumar, K., Johnson, L.A., Shurmatz, K. & Weaver, J. (2011). Research in schools, experiences from the field in large scale efficacy trials of technologies. ELEARN, Honolulu, HI, October 2011.
- Wijekumar, K. (2011). Practitioners consumption of technology research. Annual Conference on Regional Laboratories – Philadelphia, PA. November 2011
- Wijekumar, K. & Meyer, B.J.F. (2011). Assessment of student comprehension through Natural Language Processing. Global Learn 2011. Melbourne, Australia, April, 2011.
- Wijekumar, K. & Meyer, B.J.F. (2011). Reading and Writing Improvement through Web-Based Structure Strategy Training in Elementary and Middle Schools. Global Learn 2011. Melbourne, Australia, April, 2011.
- Wijekumar, K., Knotek, E.W., Marchione, L., Jasper, R., Godfrey, J., Lacey, A., (2011). A Botanical i-Phone Application Development as a Learning Tool and Community Use Tool. The World Scientific and Engineering Academy and Society Conference on Mobile Applications, Venice, Italy, March 7-10, 2011.
- Wijekumar, K. (2010). Invited Keynote Address – Delta Phi Epsilon Annual Conference, Philadelphia, PA November 19, 2010
- Wijekumar, K. (2010). Invited Speaker – Large Scale Effectiveness Studies in Schools. University of Pennsylvania Speaker Series. November 2010.
- Wijekumar, K. & Lei, P. (2010). Findings from an efficacy study on reading comprehension. Presented at the Hong Kong National University Colloquium on Educational Research, May 2010.
- Wijekumar, K., Meidinger, E.J., Baxa, D., Crossland, J., Guantonio, M., Iocca, D., Petrucelli, A., Stewart, I. (2010). Natural Language Processing and Scoring Student Writing in Web-Based Intelligent Tutoring Systems. International Technology, Education, and Development Conference – Valencia Spain March 8-10, 2010.

- Wijekumar, K., Meyer, B.J.F. & Lei, P. (2010). Efficacy Research on the Intelligent Tutoring System for the Structure Strategy (ITSS) – Year 1. Presented at the Annual Conference of the U.S. Department of Education Institute of Education Sciences. National Harbor, MD. May 2010.
- Wijekumar, K. (2010). Findings on the effectiveness of Odyssey Math. U.S. Department of Education Institute of Education Sciences Annual Conference Panel. National Harbor, MD, May 2010
- Wijekumar, K. & Meyer, B.J.F. (2009). Lessons Learned in Conducting Research on the Intelligent Tutoring System for the Structure Strategy (ITSS). Presented at the Annual Conference of the U.S. Department of Education Institute of Education Sciences. Washington, D.C. May 2009.
- Wijekumar, K., Hitchcock, J., Turner, H.W., Peck, K. (2009). Randomized Controlled Trial on Odyssey Math – Research Design. American Educational Research Conference, San Diego, CA.
- Wijekumar, K., Boland, D., Campbell, N., D’Amico, J. & James, P. (2009). Diversity Disposition Among College Students in Europe and U.S. with Prototypes for a Web-Based System to Improve Diversity Disposition. International Conference on Technology Education. Valencia, Spain, March 2009.
- Wijekumar, K. & Meyer, B.J.F. (2009). Reading Comprehension And Motivation In Elementary School Students Using A Web-Based Tutoring System. At the International Conference on Cognition and Exploratory Learning in the Digital Age (CELDA), Freiburg, Germany, October 2009.
- Wijekumar, K. and Meyer, B.J.F. (2008). Motivating Reading Comprehension In 5th Grade Students Using A Web-Based Tutoring System. International Conference on Cognition and Exploratory Learning in the Digital Age (CELDA), October 2008.
- Wijekumar, K. and Meyer, B.J.F. (2008). Improving Reading Comprehension in Middle School Students Using a Web-Based Tutoring System for the Structure Strategy. At the World Conference on Educational Multimedia, Hypermedia & Telecommunications, Vienna, Austria. June 2008.
- Wijekumar, K. (2008). “Technology Interrupted Cognition”: Implications for Technology Enhanced Learning. At the World Conference on Educational Multimedia, Hypermedia & Telecommunications, Vienna, Austria. June 2008.
- Wijekumar, K., Garlitz, K., Hartman, D., Lyon, J., Mangie, A., Shaffer, M., Simitoski, K. (2008). Cognitive Schemas in Web-Based Learning Environments: Effects of Instant Messaging Interruptions on Undergraduates. At the International Association of Science

and Technology for Development (IASTED) annual conference on Human Computer Interaction, Innsbruck, Austria. March 2008.

Wijekumar, K. (2007, April). Effectiveness of Odyssey Math Software on 4th grade students across the mid-atlantic region. Pennsylvania State Curriculum Coordinators Conference, Harrisburg, PA.

Reviewing and Service to Professional Organizations and University

Director, Center for Urban School Partnerships (CUSP) Texas A&M University

Associate Editor – Journal of Educational Psychology

Editorial Board of the Educational Technology Research and Development

Editorial Board Review of Educational Research

Board of the Texas Association of School Administrators Community-Based Accountability Systems group.

Organizer of the Texas A&M School Impact Summit Spring and Fall conference for school personnel across Texas

Editorial Board of the Technology, Knowledge, and Learning Journal

Member of the European Literacy Network (2015-2022)

Program Committee - International Conference on Computational Thinking Education 2019

Standing Member Review Panel of the Hong Kong Grants Council.

College of Education and Human Development – Research Innovation Review Team

College of Education and Human Development – School Improvement Project Writing Project Leader

Texas A&M University Provost Grand Challenge Committee member

Search Committee – STEM Provost’s Diversity Hire – Paul Hernandez & Karen Rambo Hernandez, January 2019.

Search Committees – Program Manager, Science Content Developer, Project Manager, Online Coordinator, Graphics Designer positions for SEED grant 2019

Search Committee – EPSY – Research 2018-2019

Search Committee Chair – Technology Search 2017

Search Committee Member – Literacy Search 2018

Reviewer for the Center for Innovation in Learning at Penn State (COIL)

Reviewer for the U.S. Department of Education Regional Educational Laboratory Program

Reviewer for the U.S. Department of Education What Works Clearinghouse

Reviewer for the National Science Foundation

Reviewer for Journal of Interacting with Computers - Elsevier

Reviewer for Journal of Educational Resources in Computing - ACM

Reviewer for ACM – Interacting with Computers

Reviewer for North Central Regional Educational Laboratory – Department of Education.

Reviewer for American Educational Research Association Conference

Reviewer for Association for Computing Machinery SIG - Computer Science Education

Reviewer for American Association for Computing in Education Conference

Reviewer for American Educational Communications and Technology Conferences

RESEARCH IN PROGRESS

Current Development of a web-based intelligent tutor for writing in collaboration with Arizona State University (Drs. Harris and Graham)

Development, design, implementation, and research on the use of intelligent agents in K-12 learning environments (with Drs. Bonnie J.F. Meyer and Puiwa

Lei - The Pennsylvania State University and Dr. Pablo Pirnay-Dummer - University of Freiburg, Germany)

Development of a Spanish Language Tutor for Reading Comprehension in collaboration with Dr. Hernandez (New Mexico State University) and Dr. Diane August, American Institutes for Research and Center for Applied Linguistics – Washington D.C.

Randomized Controlled Trials in Educational Software (with Dr. Kyle Peck, The Pennsylvania State University and Dr. Herbert W. Turner – Analytica Inc. and University of Pennsylvania)

Service Oriented Architecture and Enterprise Integration Tools (with Dr. Pablo Pirnay-Dummer, University of Freiburg, Germany, Mr. Manu Brahman, Development Dimensions International, Dr. Courtney Young, The Pennsylvania State University, Dr. Gwen Lee, Nanyang Technological University Singapore)

Development of the Diversity Disposition measure and virtual learning environment (with Dr. Don Sheffield, PSU)

Expert/Novice differences in ill-structured problem solving using the Cognitive Flexibility Theory.

MEMBERSHIP

The Honor Society of Phi Kappa Phi
The Honor Society of Phi Delta Kappa
Association for Educational Communications and Technology
Society for College and University Planning
Association for Computing Machinery
Royal Schools of Music - London

AWARDS AND HONORS

College of Education Research Award – Texas A&M University
Outstanding Advisor Award - presented by the Student Government 2008 PSU Beaver
Faculty Research Excellence Award – Advisory Board 2006 PSU Beaver
Phi Kappa Phi
Experiential Education Supervision Service Award 1993 and 1994 - IUP
Columbus Chamber of Commerce Scholar 1984 - Columbus, Ohio

Upperclassmen Scholar 1983-84 - Franklin University
Royal Schools of Music London - Scholar 1977-79

UNIVERSITY AND OTHER COMMITTEES

Quaker Valley School District – Elected School Board Director 2005-current
College of Information Sciences and Technology Center for Enterprise Architecture -
Affiliated Faculty
Penn State Beaver Information Sciences and Technology Faculty Search Chair – 2008-2010
Penn State Beaver Computer Science Faculty Search Chair 2007-08
Pittsburgh Technology Council
Penn State Beaver Promotion and Tenure Committee (2008-2009)
Penn State Faculty Senate (2002 – 2008)
Penn State Beaver Internship Coordinator (2002- 2011)