

Patrick R. McGuire - Curriculum Vita

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EDUCATION

Graduate

Ph.D., Instructional Technology, University of Virginia, Charlottesville, VA 2007-2010
M.S., Instructional Technology, Duquesne University, Pittsburgh, PA 2005-2006

Undergraduate

B.S., Secondary Education (Honors), Duquesne University, Pittsburgh, PA 2000-2004
B.A., Mathematics (Honors), Duquesne University, Pittsburgh, PA 2000-2004

PROFESSIONAL EXPERIENCE

University of Colorado Colorado Springs, Colorado Springs, CO

Associate professor, Department of Teaching and Learning 2016-
Co-director, UCCSTeach Program 2012-
Assistant professor, Department of Teaching and Learning 2010-2016

Worcester Polytechnic Institute, Worcester, MA

Research assistant, Department of Computer Science 2008-2010
Primary project = *ASSISTments*

University of Virginia, Charlottesville, VA

Graduate research fellow, Curry School of Education 2007-2010
Primary project = *MyTeachingPartner Math/Science*

Carnegie Mellon University, Pittsburgh, PA

Research assistant, Human-Computer Interaction Institute 2006-2008
Primary project = *ASSISTments*

Bethel Park School District, Bethel Park, PA

Mathematics teacher, Bethel Park High School 2005-2007
Taught lower-level algebra & honors geometry courses

SCHOLARSHIP

Peer-Reviewed Publications

1. **McGuire, P.**, & Ottmer, S. (2019, accepted). Classroom interactions: Course overview and description of an innovative co-teaching model. In Goodell, J.E., & Koc, S. (Eds.). *Preparing STEM Teachers: A Replication Model*. Information Age Processing.
2. Inventado, P. S., Francisco-Inventado, S.G., Matsuda, N., Li, Y., Scupelli, P., & **McGuire, P.** (2018). Using design patterns for preservice teacher education. Paper presented at the 23rd European Conference on Pattern Languages of Programs (EuroPLoP). Bavaria, Germany. Available: DOI: [10.1145/3282308.3282340](https://doi.org/10.1145/3282308.3282340).
3. **McGuire, P.**, Herron, B., & Grannas, K. (2018). Booked on Math: Teaching early childhood math concepts through stories*. Short abstract presented at the Ireland International Conference on Education. Dublin, Ireland. Published by the Infonomics Society, ISBN 978-1-908320-89-6. Proceedings available: <http://www.iicedu.org/Proceedings/IICE-2018-April-Proceedings.pdf>. Average acceptance rate for short abstracts = 4%. (*won award for best abstract).
4. **McGuire, P.**, Tu, S., Logue, M., Mason, C.A., & Ostrow, K. (2017). Counterintuitive effects of online feedback in middle school math: Results from a randomized controlled trial in ASSISTments. *Educational Media International*, 54(3), 231-244. Available: <http://dx.doi.org/10.1080/09523987.2017.1384161>. Average acceptance rate = 20-30%, impact factor = 0.7.
5. **McGuire, P.**, Kinzie, M.B., Thunder, K., & Berry, R.Q. (2016). Methods of analysis and overall mathematics teaching quality in at-risk pre-kindergarten classrooms. *Early Education and Development*, 27(1), 89-109. Average acceptance rate = 21-30%, impact factor = 1.477. Available: [DOI:10.1080/10409289.2015.968241](https://doi.org/10.1080/10409289.2015.968241)
6. **McGuire, P.**, Logue, M.E., Mason, C.A., Tu, S., Heffernan, C., Heffernan, N.T., Ostrow, K., & Li, Y. (2016). To see or not to see: Putting image-based feedback in question. Paper presented at the International Society for Technology in Education. Denver, CO. (2016 acceptance rate for paper category = 18%).
7. Anderson-Pence, K.L., & **McGuire, P.** (2016). The impact of different virtual manipulative types on classroom mathematical discourse. Paper presented at the International Society for Technology in Education. Denver, CO. (2016 acceptance rate for paper category = 18%).
8. Cheesman, E.A., Winters, D.C., & **McGuire, P.** (2016). Technology recommendations (pp. 392-409). In Mather, N., & Jaffe, L.E. (Eds.).

Woodcock-Johnson IV: Reports, Recommendations, and Strategies. Hoboken, NJ: John Wiley & Sons, Inc.

9. **McGuire, P.**, Gagnon, R., & Lanotte, A. (2015). Teacher preparation goes to CLASS. *The Field Experience Journal*, 16, 41-69.
10. Kinzie, M.B., Whittaker, J.V., **McGuire, P.**, Lee, Y., & Kilday, C.R. (2015). Research on curricular development for pre-kindergarten mathematics & science. *Teachers College Record*, 117(7), 1-40. Average acceptance rate = 1-10%, impact factor = 0.722. Available: <http://www.tcrecord.org/library/PrintContent.asp?ContentID=17948>
11. Alismail, H.A., & **McGuire, P.** (2015). 21st century standards and curriculum: Current research and practice. *Journal of Education and Practice*, 6(6), 150-154. Available online: <http://www.iiste.org/Journals/index.php/JEP/article/view/20055/20413>
12. **McGuire, P.**, Gagnon, R. & Anderson-Pence, K.L. (2015). Introducing Pre-service STEM Teachers to the Classroom Assessment Scoring System-Secondary (CLASS-S) Using Video-based Assignments. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2015* (pp. 2437-2442). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE). (Average acceptance rate = 25-39%). Available: <http://www.editlib.org/pv/150378/>.
13. Kinzie, M.B., Whittaker, J.V., Williford, A., DeCoster, J., **McGuire, P.**, Lee, Y., & Kilday, C.R. (2014). *MyTeachingPartner Math/Science* pre-kindergarten curricula and teacher supports: Associations with children's math and science learning. *Early Childhood Research Quarterly*, 29(4), 586-599. Average acceptance rate = 11-20%, five-year impact factor = 2.78. Available: [DOI: 10.1016/j.ecresq.2014.06.007](https://doi.org/10.1016/j.ecresq.2014.06.007).
14. **McGuire, P.** (2013). Using online error analysis items to support pre-service teachers' pedagogical content knowledge in mathematics. *Contemporary Issues in Technology and Teacher Education*, 13(3), 207-218. Average acceptance rate = 21-30%. Association for the Advancement of Computing in Education (AACE). Available: <http://www.editlib.org/d/40389>
15. **McGuire, P.**, & Kinzie, M.B. (2013). Analysis of place value instruction and development in pre-kindergarten mathematics. *Early Childhood Education Journal*, 41(5), 355-364. Average acceptance rate = 11-20%, impact factor = 1.06. Available: [DOI:10.1007/s10643-013-0580-y](https://doi.org/10.1007/s10643-013-0580-y).
16. **McGuire, P.**, Kinzie, M.B., & Berch, D.B. (2012). Developing number sense in pre-k with five-frames. *Early Childhood Education Journal*, 40(4), 213-222. Average acceptance rate = 11-20%, impact factor = 1.06. Available: [DOI: 10.1007/s10643-011-0479-4](https://doi.org/10.1007/s10643-011-0479-4).

17. **McGuire, P.**, & Kinzie, M.B. (2011). An analysis of teacher-child interactions in pre-kindergarten mathematics. Paper presented at the American Educational Research Association Conference. New Orleans, LA.
18. Kinzie, M.B., Whittaker, J. E., Williford, A., **McGuire, P.**, Lee, Y., & Matthew, K. (2011). Early childhood math and science: The impact of *MyTeachingPartner Math/Science*. Paper presented at the American Educational Research Association Conference. New Orleans, LA.
19. Matthew, K., **McGuire, P.**, Kinzie, M.B., Lee, Y., & Foss, J. (2010). A blended-learning approach to professional development in pre-k mathematics and science: Lessons from *MyTeachingPartner*. Paper presented at the Association for Educational Communications and Technology Conference. Anaheim, CA.
20. Lee, Y., Choi, J., & **McGuire, P.** (2010). A review of online dropout and suggestions for future research. Research paper presented at the International Society for Technology in Education Conference. Denver, CO.
21. Wang, F., Kinzie, M.B, **McGuire, P.**, & Pan, E. (2010). Applying technology to problem-based inquiry learning in early childhood education. *Early Childhood Education Journal*, 37(5), 381-389. Average acceptance rate = 11-20%, impact factor = 1.06. Available: [DOI: 10.1007/s10643-009-0364-6](https://doi.org/10.1007/s10643-009-0364-6).
22. **McGuire, P.**, Kinzie, M.B., Kilday, C.R., & Whittaker, J.E. (2010). Children's understanding of two-digit place value: A place for place value in pre-k mathematics instruction. Paper presented at the American Educational Research Association Conference. Denver, CO. (Average acceptance rate = 30-40%). [Available Online](#).
23. Kinzie, M.B., Pianta, R.C., Kilday, C.R., **McGuire, P.**, & Pinkham, A. (2009). Development of curricula, teacher supports, and assessments for pre-kindergarten mathematics and science. Paper presented at the Society for Research on Educational Effectiveness Conference. Washington, D.C. [Available Online](#).
24. **McGuire, P.**, Kinzie, M.B., Pan, E., & Lee, Y. (2008). Effective use of interactive story-based mathematics activities at the pre-k level. In K. McFerrin et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2118-2123). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE). (Average acceptance rate = 25-39%). Available: <http://www.editlib.org/p/27517/>.
25. Pan, E., Kinzie, M.B., & **McGuire, P.** (2008). Design of a web-based curriculum development & delivery system: Lessons from *MyTeachingPartner-Mathematics & Science*. In K. McFerrin et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 3118-3122). Chesapeake, VA: Association for the Advancement of Computing in Education

(AACCE). (Average acceptance rate = 25-39%). Available online:
<http://www.editlib.org/p/27707/>.

26. Wang, F., Kinzie, M.B., **McGuire, P.**, & Pan, E. (2008). Technology-enhanced, problem-based inquiry learning in early childhood education: A theoretical basis. In K. McFerrin et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2266-2271). Chesapeake, VA: Association for the Advancement of Computing in Education (AACCE). (Average acceptance rate = 25-39%). Available online: <http://www.editlib.org/p/27545/>.
27. **McGuire, P.**, & Wiggins, A. K. (2009). Mathematical reasoning and number sense. In E. D. Hirsch & A. K. Wiggins (Eds.). *Preschool sequence and teacher handbook* (pp. 171-218). Charlottesville, VA: Core Knowledge Foundation.

Non Peer-Reviewed Publications

1. **McGuire, P.** (2012). Increasing productivity and saving time with technology: Three practical tips. *The Colorado Mathematics Teacher*, 45(1), 6.
2. Hamre, B., Downer, J., Kilday, C.R., & **McGuire, P.** (2009). Effective teaching practices for early childhood mathematics. White paper prepared for the National Research Council (NRC). In *Mathematics learning in early childhood: Paths toward excellence and equity*. Washington, D.C.: The National Academies Press.

Published Curricula and Assessments

1. Kinzie, M. B., Pianta, R. C., Whittaker, J. V., Berry, R. Q., **McGuire, P.**, Kilday, C. R., Williford, A., & Thomas, K. (2010). *MyTeachingPartner-Math*. Charlottesville, VA: Center for Advanced Study of Teaching & Learning (CASTL).
2. Kinzie, M.B., **McGuire, P.**, & Whittaker, J.V. (2010). *Preschool number sense & place value: Dynamic assessment*. Charlottesville, VA: Center for Advanced Study of Teaching & Learning (CASTL).

PUBLICATIONS UNDER REVIEW OR IN PROGRESS

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1. Weiss, D.J., **McGuire, P.**, & Clouse, W. (revise and resubmit, September, 2018). A shift from passive to active teaching and learning strategies in an undergraduate chemistry course: Results from a decade long study. Submitted to the *Journal of College Science Teaching*.
 2. **McGuire, P.**, Eelsey, S., Barrett, M., & Ruhala, S. (under review, submitted September, 2017). Getting freshmen "Off and Running" to success in college. Submitted to the *International Journal of Health, Wellness, and Society*.

3. Im, H., Kwon, K.A., Jeon, H.J., & **McGuire, P.** (in progress). Unintended consequences of standardized testing on math instruction and achievement: Evidence from the Early Childhood Longitudinal Study. To be submitted to the *Journal of Applied Developmental Psychology*.
4. **McGuire, P.**, & Czaplewski, A.J. (in progress). Are you buying what I'm teaching? Motivating K-12 students using marketing principles.
5. **McGuire, P.**, Anderson-Pence, K.L., Powers, A., & Valentine, A. (in progress). Design and delivery of a high quality summer institute for rural mathematics educators. To be submitted to the *Journal of Research in Rural Education*.
6. **McGuire, P.**, Weiss, D.J., & Clouse, W. (in progress). In search of a goldilocks zone for lecture in university-based STEM courses.

PEER-REVIEWED CONFERENCE PRESENTATIONS

(* indicates UCCS student as co-author; ^ indicates in-service teacher as co-author)

1. **McGuire, P.**, & Ottmer, S. (May, 2019, submitted). What a trip! Integrating field trips into your UTeach program. Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
2. **McGuire, P.** (April, 2019, submitted). Phoning it in: Managing cell phone usage in middle and high school classrooms. Presentation at the National Field Experience Conference. University of Northern Colorado. Greeley, CO.
3. Weiss, D.J., & **McGuire, P.** (March, 2019). Active learning in instrumental analysis using the genius hour. Presentation at the Pittcon Conference & Expo. Philadelphia, PA.
4. Weiss, D.J., & **McGuire, P.** (February, 2019). The "no lecture" lecture: How to keep students actively engaged and learning even at 8am or 8pm. Virtual presentation at the Transforming the Teaching & Learning Environment Conference. Online conference hosted by the University of Idaho.
5. Weiss, D.J., & **McGuire, P.** (January, 2019). Who is more tired at the end of your classes, you or your students? Professional development workshop presented at the UCCS Mountain Lion Teaching and Learning Day Conference. Colorado Springs, CO.
6. Weiss, D.J., **McGuire, P.**, Clouse, W., & Sandoval, R.* (November, 2018). Clickers aren't enough: Results from a decade-long study investigating instructional

strategies in chemistry. Poster presentation at the UCCS Mountain Lion Research Day. Colorado Springs, CO.

7. Herron, B.*, & **McGuire, P.** (November, 2018). Booked on math. Poster presentation at the UCCS Mountain Lion Research Day. Colorado Springs, CO.
8. Anderson-Pence, K.L., **McGuire, P.**, Powers, A., & Valentine, A. (October, 2018). Enhancing mathematics instruction in rural schools: A year-long professional development experience to develop teacher-leaders. Presentation at the Northern Rocky Mountain Educational Research Association Conference.
9. Anderson-Pence, K.L., **McGuire, P.**, Powers, A., & Valentine, A. (October, 2018) School's in for the summer: Math PD for rural teachers. Presentation at the National Rural Education Association (NREA) Conference. Denver, CO.
10. Powers, A., Valentine, A., **McGuire, P.**, & Anderson-Pence, K.L. (October, 2018). Multi-district blended PD for rural math educators: Lessons learned. Presentation at the National Rural Education Association (NREA) Conference. Denver, CO.
11. Weiss, D.J., & **McGuire, P.** (August, 2018). Death of the lecture: Active learning essentials. Presentation at the Colorado Learning and Teaching with Technology (COLTT) Conference. University of Colorado Boulder. Boulder, CO.
12. Caldwell, H., **McGuire, P.**, & Kupferman, S. (August, 2018). Get real! Learning with virtual reality. Presentation at the Colorado Learning and Teaching with Technology (COLTT) Conference. University of Colorado Boulder. Boulder, CO.
13. **McGuire, P.**, & Cruz, C.^ (July, 2018). Meeting Noyce scholars' needs through crowdsourced professional learning communities. Interactive workshop presented at the NSF Noyce Summit. Washington, D.C.
14. Cruz, C.^, & **McGuire, P.** (July, 2018). Using expert teacher panels to support pre-service teacher professional learning communities. Poster presented at the NSF Noyce Summit. Washington, D.C.
15. Long, D., Schack, E., Odell, M., **McGuire, P.**, & Buchanan, M. (May, 2018). Overcoming the challenges of UTeach replication in rural settings. Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
16. **McGuire, P.**, & Ottmer, S.^ (April, 2018). Co-teaching field-based courses with a university faculty and in-service science teacher: A symbiotic relationship. Presentation at the University of Northern Colorado National Field Experience Conference. Greeley, CO.

17. Weiss, D.J., **McGuire, P.**, Clouse, W., & Sandoval, R. (March, 2018). Active learning with clickers and small groups in general chemistry. Paper presented at the National American Chemical Society. New Orleans, LA.
18. **McGuire, P.**, Barrett, M., Elsey, S. & Ruhala, S.* (October, 2017). Getting freshmen "Off and Running" to success in college. Presentation at the Health, Wellness and Society Conference. University of Denver. Denver, CO.
19. Anderson-Pence, K.L., & **McGuire, P.** (September, 2017). Multiplication mini-lessons: Using number strings to build students' understanding. Presentation at the Colorado Council of Teachers of Mathematics Conference. University of Denver. Denver, CO.
20. **McGuire, P.**, & Anderson-Pence, K.L. (September, 2017). Getting started with Google Drive: A roadmap for math educators. Presentation at the Colorado Council of Teachers of Mathematics Conference. University of Denver. Denver, CO.
21. Kupferman, S., & **McGuire, P.** (August, 2017). A Crowdsourced "Appy" Hour: Applications for University Faculty. Presentation at the Colorado Learning and Teaching with Technology (COLTT) Conference. University of Colorado Boulder. Boulder, CO.
22. **McGuire, P.**, Block, R., Hines, L.M., & Christensen, T.M. (July, 2017). Augmenting pre-service STEM teacher preparation with professional learning communities. Poster presentation at the NSF Noyce Summit. Washington, D.C.
23. **McGuire, P.**, & Ottmer, S.^ (May, 2017). Introducing a tiered mentor system for UTeach field-based courses. Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
24. Weiss, D.J., Sandoval, R.*, Brasuel, M., & **McGuire, P.** (April, 2017). Clickers and cooperative learning as a combination to improve student learning in general chemistry as well as analytical chemistry. Paper presented at the National American Chemical Society Conference. San Francisco, CA.
25. **McGuire, P.**, Lanotte, A., & Turner, C. (September, 2016). 538 ways to engage high school students in real world math. Presentation at the Colorado Council of Teachers of Mathematics. Denver, CO.
26. Anderson-Pence, K.L., & **McGuire, P.** (September, 2016). Point, click, learn: Using virtual manipulatives to enhance mathematics instruction. Presentation at the Colorado Council of Teachers of Mathematics. Denver, CO.

27. Mastropietro, K.*, Hines, L., Kalita, J., **McGuire, P.**, & Morris, P. (April, 2016). A mission of transition from military service to STEM professional. Poster presentation at Mountain Lion Research Day. UCCS. Colorado Springs, CO.
28. Gagnon, R., & **McGuire, P.** (April, 2016). The revising process to make a better teacher portfolio. Presentation at the University of Northern Colorado National Field Experience Conference. Greeley, CO.
29. **McGuire, P.**, & Anderson-Pence, K.L. (2015, September). Integrating mathematics and literacy: Killing two birds with one book. Presentation at the Colorado Council of Teachers of Mathematics Conference. Denver, CO.
30. Clayton, G., & **McGuire, P.** (2015, May). The CAEP crusaders: Navigating the accreditation waters as a UTeach replication site. Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
31. **McGuire, P.**, & Rawls, B. (2015, April). Teacher preparation goes to CLASS. Presentation at the Rocky Mountain Early Childhood Conference. Denver, CO.
32. **McGuire, P.**, & Gagnon, R. (2015, April). Using the CLASS model to build a better pre-service teacher candidate. Presentation at the University of Northern Colorado National Field Experience Conference. Greeley, CO.
33. Gagnon, R., & **McGuire, P.** (2015, April). A teacher candidate's day in the life (of a student). Presentation at the University of Northern Colorado National Field Experience Conference. Greeley, CO.
34. **McGuire, P.**, & Lanotte, A. (2014, May). "Appy" hour: Applications for UTeach courses, students, and faculty. Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
35. **McGuire, P.**, Lanotte, A., & Westad, H.* (2014, May). Embedding lesson design challenges into classroom interactions: Lessons learned. Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
36. **McGuire, P.** (2013, November). Common Core before four: Mathematics standards and development before kindergarten. Presentation at the School Science and Mathematics Association Annual Convention. San Antonio, TX.
37. **McGuire, P.**, & Turner, C. (2014, September). Inquiry-based mathematics instruction in a standards-based world. Presentation at the Colorado Council of Teachers of Mathematics Conference. Denver, CO.

38. **McGuire, P.**, & White, J. (2014, September). Integrating video analysis and discussions into professional learning communities. Presentation at the Colorado Council of Teachers of Mathematics Conference. Denver, CO.
39. Berlin, R., & **McGuire, P.** (2014, March). The CLASS system and teacher education: Why it matters, how it works. Presentation at the Rocky Mountain Early Childhood Conference. Denver, CO.
40. **McGuire, P.** (2013, October). Improving teaching practice through mathematics video clubs. Presentation at the National Council of Teachers of Mathematics Regional Conference. Las Vegas, NV.
41. **McGuire, P.** (2013, September). A practical guide to developing and assessing elementary students' mathematical fluency. Presentation at the Colorado Council of Teachers of Mathematics Conference. Denver, CO.
42. **McGuire, P.**, DaLee, J. & Gagnon, R. (2013, May). How can UTeach online? Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
43. **McGuire, P.**, DaLee, J., & Gagnon, R. (2013, May). Should UTeach elementary? We think so! Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
44. **McGuire, P.** (2012, August). Teaching teachers with Ted.com and TeachingChannel.org. Presentation at the Colorado Learning and Teaching with Technology Conference. University of Colorado. Boulder, CO.
45. **McGuire, P.**, & Kelly, C.A. (2012, May). Making a good lesson great: A brain-based lesson planning checklist. Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
46. **McGuire, P.** (2012, May). Staying current using RSS feeds: Automated web browsing for math, science, and technology educators. Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
47. Kelly, C.A., **McGuire, P.**, & Cutter, E. (2012, May). Master teacher training: A comprehensive program and university induction approach. Presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
48. Kelly, C.A., **McGuire, P.**, Peszek, P. & DaLee, J. (2012, May). Developing and implementing a large-scale replication at a small-scale university. Presentation at the

UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.

49. **McGuire, P.** (2011, November). Supporting secondary math and science instruction with intelligent tutoring software. Presentation at the School Science and Mathematics Association Annual Convention. Colorado Springs, CO.
50. Kelly, C.A., & **McGuire, P.** (2011, November). The primacy-recency effect: How the brains learns mathematics. Presentation at the School Science and Mathematics Association Annual Convention. Colorado Springs, CO.
51. **McGuire, P.**, & Weathers, J. (2011, November). Supporting cognitively guided formative assessment techniques in elementary mathematics. Presentation at the School Science and Mathematics Association Annual Convention. Colorado Springs, CO.
52. Kroeschen, K.*, & **McGuire, P.** (2011, November). Using the ASSISTment system to assess middle school mathematics students' homework understanding. Presentation at the School Science and Mathematics Association Annual Convention. Colorado Springs, CO.
53. Kelly, C.A., & **McGuire, P.** (2011, November). Developing number sense in pre-k with five-frames and ten-frames. Presentation at the National Council of Teachers of Mathematics Regional Conference. Albuquerque, NM.
54. **McGuire, P.** (2011, October). ASSISTments: Classroom clickers on steroids. Presentation at the Colorado Council of Teachers of Mathematics Conference. Denver, CO.
55. Kelly, C.A., **McGuire, P.**, Fritz, T., & Peszek, P. (2011, October). The UCCSTeach Program: A model for preparing exemplary secondary mathematics and science teachers. Presentation at the Colorado Council of Teachers of Mathematics Conference. Denver, CO.
56. Kelly, C.A., & **McGuire, P.** (2011, October). Putting it all together: How the brain filters mathematical information. Presentation at the Colorado Council of Teachers of Mathematics Conference. Denver, CO.
57. **McGuire, P.** (2011, August). Formative assessment made easy with intelligent tutoring software. Hands-on technology workshop presented at the Colorado Learning and Teaching with Technology Conference. University of Colorado. Boulder, CO.
58. Kelly, C.A., **McGuire, P.**, Fisher, C., & Weeres, Y. (2011, May). Developing and implementing a large-scale replication at a small-scale university. Presentation at the

UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.

59. Kinzie, M.B., Whittaker, J.E., **McGuire, P.**, & Lee, Y. (2010, October). Pre-kindergarten mathematics & science: Design-based research on curricular development. Design and development showcase at the Association for Educational Communications and Technology Conference. Anaheim, CA.
60. Kinzie, M. B., Whittaker, J.E., Kilday, C.R., Pianta, R.C., **McGuire, P.**, Pan, E., Foss, J., Lee, Y., Hughes, M. M., Josephson, K., Williford, A., Berry, R.Q., Thomas, K., & Kelly, C. (2010, June). *MyTeachingPartner Mathematics-Science*: Year 2 pilot outcomes. Poster presented at the Institute of Education Sciences Conference. Washington, D.C.
61. Kinzie, M.B., Pianta, R.C., Berry, R.Q., Foss, J., Williford, A., Kilday, C.R., Pan, E., Hughes, M.M., Josephson, K., Pinkham, A., **McGuire, P.**, & Lee, Y. (2009, June). Pre-kindergarten math & science, year two: Development of curricula & teacher supports. Poster presented the Institute of Education Sciences (IES) Conference. Washington, D.C.
62. Kilday, C.R., Kinzie, M.B., & **McGuire, P.** (2009, March). An examination of the quality of mathematics and science instruction in pre-k classrooms. Poster presented at the Society for Research in Child Development Conference. Denver, CO.
63. Kinzie, M.B., Pianta, R.C., Berry, R.Q., Wang, F., Hughes, M.M., Kilday, C.R., Pan, E., **McGuire, P.**, & Josephson, K. (2008, June). Year one: Development of integrated pre-kindergarten curricula. Poster presented at the Institute of Education Sciences Conference. Washington, D.C.

INVITED PRESENTATIONS & KEYNOTES

For Higher Education

1. **McGuire, P.**, & Weiss, D.J. (2018, November). Death of the lecture: Active learning essentials. Presentation at the UCCS Faculty Resource Center's Let's Talk Teaching series. UCCS. Colorado Springs, CO.
2. **McGuire, P.** (2018, August). Engaging students through active learning strategies. Presentation at the UCCS new faculty orientation. UCCS. Colorado Springs, CO.
3. **McGuire, P.** (2018, May). Teaching 101 for freshmen 101. Keynote presentation at the UCCS Gateway Program Seminar (GPS) Faculty Retreat. UCCS. Colorado Springs, CO.

4. **McGuire, P.**, Marshall, J., Campitelli, M., Nisbet, L., & Cook, N. (2018, May). Classroom interactions course retreat. Invited pre-conference workshop presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
5. **McGuire, P.** (2017, May). Interactions Matter! Top 10 secrets of super teaching. One-hour professional development seminar delivered to faculty from the UCCS Pre-Collegiate Development Program. UCCS. Colorado Springs, CO.
6. **McGuire, P.** (2017, May). The secrets of super teaching. Professional development workshop presented at the UCCS Gateway Program Seminar (GPS) Faculty Retreat. UCCS. Colorado Springs, CO.
7. **McGuire, P.** (2016, May). Classroom interactions course overview and evolution. Invited pre-conference workshop presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
8. **McGuire, P.** (2016, May). Managing classroom interactions in pre-collegiate courses. One-hour professional development seminar delivered to faculty from the UCCS Pre-Collegiate Development Program. UCCS. Colorado Springs, CO.
9. **McGuire, P.** (2016, May). The secrets of super teaching. Professional development workshop presented at the UCCS Gateway Program Seminar (GPS) Faculty Retreat.
10. **McGuire, P.**, & Christensen, T.M. (2015, December). UCCSTeach program overview and practices. Presentation at the Colorado STEM Teacher Preparation Symposium. Colorado College, Colorado Springs, CO.
11. **McGuire, P.**, & Ottmer, S. (2015, May). Co-teaching UTeach courses with a University Faculty and an in-service teacher: An innovative model. Invited pre-conference workshop presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
12. **McGuire, P.** (2015, May). Classroom interactions: The secrets of super teaching. One-hour professional development seminar delivered to 12 faculty participating in the Southern Colorado REACH faculty orientation. UCCS. Colorado Springs, CO.
13. Fray, S., & **McGuire, P.** (2014, May). Classroom interactions course retreat. Invited pre-conference workshop presentation at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.
14. **McGuire, P.**, McConnell, J., & Lavoy, C. (2013, May). Supporting classroom interactions with educational technology. Invited pre-conference panel presentation

at the UTeach Institute National Math and Science Initiative Conference. University of Texas. Austin, TX.

15. **McGuire, P.** (2013, April). Investing in early childhood mathematics teaching and learning. Keynote faculty talk at the UCCS Mountain Lion Research Day. UCCS. Colorado Springs, CO.
16. **McGuire, P.** (2013, June). Multimedia technology in education. Two-hour technology workshop delivered to 40 faculty from the Jiangsu Province Higher Education Faculty Summer Training Program. UCCS. Colorado Springs, CO.
17. Kinzie, M.B., **McGuire, P.**, & Pan, E. (2009, December). Meeting the need in pre-kindergarten mathematics & science via design-based research. Presentation given at the Curry Tea and Technology Seminar. University of Virginia. Charlottesville, VA.

For PK-12 Education

1. Anderson-Pence, K.L., & **McGuire, P.** (2018, June). Summer CAMP (Curriculum Alignment and Mapping Project) for math teachers. Three-day workshop delivered to 12 in-service educators from Aguilar School District and La Veta School District. Cripple Creek, CO.
2. **McGuire, P.** (2018, March). Mathematical mindset for elementary parents. Invited presentation for 75 parents at the Pikes Peak School of Expeditionary Learning. Peyton, CO.
3. **McGuire, P.** (2015, February). Math CLASS for pre-kindergarten teachers. Three-hour professional development seminar delivered to 100 pre-kindergarten teachers (over four separate sessions) at Pueblo City Schools. Pueblo, CO.
4. **McGuire, P.**, & White, J. (2014, June). Common Core mathematics standards foundation workshop. Six-hour professional development seminar delivered to 17 elementary teachers at Fountain Elementary School. Pueblo, CO.
5. **McGuire, P.** (2014, April). Teaching for conceptual understanding in the elementary mathematics classroom. Three-hour professional development seminar delivered to 50 elementary teachers (over two separate three-hour sessions) at Pueblo City Schools. Pueblo, CO.
6. **McGuire, P.** (2013, October). Roadmap to mathematics curriculum maps. Two-hour presentation delivered to 30 elementary school principals (all elementary principals across the entire PCS-60 district) at Pueblo City Schools. Pueblo, CO.

7. **McGuire, P.** (2013, September). Using technology in counseling. Two-hour professional development seminar delivered to 80 school and professional counselors at the Chi Sigma Iota Conference at UCCS. Colorado Springs, CO.
8. **McGuire, P., & White, J.** (2013, June). Common Core fundamentals for elementary mathematics teachers. Three-hour professional development seminar delivered to 150 elementary mathematics teachers (over six separate three-hour sessions) at Pueblo City Schools Summer Institute. Pueblo, CO.
9. **McGuire, P.** (2013, May). Grant writing for secondary mathematics teachers part II. Three-hour professional development seminar delivered to five secondary mathematics teachers at Central High School. Pueblo, CO.
10. **McGuire, P.** (2013, May). Grant writing for secondary mathematics teachers part I. Three-hour professional development seminar delivered to five secondary mathematics teachers at Central High School. Pueblo, CO.
11. **McGuire, P.** (2013, May). Meaningful integration of educational technology in the high school mathematics classroom. Three-hour professional development seminar delivered to five secondary mathematics teachers at Central High School. Pueblo, CO.
12. Revak, M., Wiggs, M., & **McGuire, P.** (2013, May). Middle school mathematics: Curriculum alignment project. Six-hour professional development seminar delivered to 20 middle school mathematics teachers and content specialists at Pueblo City Schools, Pueblo, CO.
13. **McGuire, P., White, J., & Pruitt, C.** (2013, May). Common Core mathematics fundamentals for grade K-8 teachers. Six-hour professional development seminar delivered to 60 elementary and middle school mathematics teachers and content specialists at Pueblo City Schools. Pueblo, CO.
14. **McGuire, P.** (2013, May). Integrating project-based learning in the secondary mathematics classroom. Three-hour professional development seminar delivered to five secondary mathematics teachers at Central High School. Pueblo, CO.
15. **McGuire, P.** (2013, April). Introduction to inquiry-based teaching in secondary mathematics. Three-hour professional development seminar delivered to five secondary mathematics teachers at Central High School. Pueblo, CO.
16. **McGuire, P.** (2013, April). Using error analysis in secondary mathematics to modify instruction. Three-hour professional development seminar delivered to five secondary mathematics teachers at Central High School. Pueblo, CO.

17. **McGuire, P.** (2013, April). Brain-based lesson planning in secondary mathematics. Three-hour professional development seminar delivered to five secondary mathematics teachers at Central High School. Pueblo, CO.
18. **McGuire, P.** (2012, December). STEM resources for secondary teachers. Three-hour professional development seminar delivered to five secondary mathematics and science teachers at Central High School. Pueblo, CO.
19. **McGuire, P.** (2012, November). Instrumental vs. relational understanding in mathematics: The how vs. the why? Three-hour professional development seminar delivered to five secondary mathematics and science teachers at Central High School. Pueblo, CO.
20. **McGuire, P.** (2012, November). Intro to the CLASS system in secondary mathematics. Three-hour professional development seminar delivered to five secondary mathematics teachers at Central High School. Pueblo, CO.
21. **McGuire, P.** (2012, October). Maximizing the potential of mathematics and science instruction in early childhood with intentional planning and professional learning communities (PLCs). Three-hour professional development seminar delivered to 70 pre-kindergarten, first, and second grade teachers, math coaches, and principals (over two separate sessions) at Pueblo City Schools. Pueblo, CO.
22. **McGuire, P.** (2012, June). Instructional support, shape, geometry, and dimension. Three-hour professional development seminar delivered to 50 first and second grade teachers, math coaches, and principals (over two separate sessions) at Pueblo City Schools. Pueblo, CO.
23. **McGuire, P.** (2012, June). Classroom organization, data analysis, statistics, and probability in early childhood mathematics. Three-hour professional development seminar delivered to 50 first and second teachers, math coaches, and principals in Pueblo City Schools. Pueblo, CO.
24. **McGuire, P.** (2012, May). Test of Early Mathematics (TEMA) training for school psychologists. Three-hour professional development seminar delivered to 11 assessment specialists and school psychologists at Pueblo City Schools. Pueblo, CO.
25. **McGuire, P.** (2012, May). Emotional support and number sense in early childhood mathematics. Three-hour professional development seminar delivered to 50 first and second teachers, math coaches, and principals (over two separate sessions) at Pueblo City Schools. Pueblo, CO.
26. **McGuire, P.** (2012, February). Integrated mathematics and science instruction in pre-kindergarten. Three-hour professional development seminar delivered to 100

pre-kindergarten teachers, math coaches, and principals (over four separate sessions) at Pueblo City Schools. Pueblo, CO.

27. **McGuire, P.** (2012, February). Improving kindergarten teachers' instructional support and measurement instruction. Three-hour professional development seminar delivered to 35 kindergarten teachers, math coaches, and principals in Pueblo City Schools. Pueblo, CO.
28. **McGuire, P.** (2012, January). Improving kindergarten teachers' classroom organization and geometry instruction. Three-hour professional development seminar delivered to 35 kindergarten teachers, math coaches, and principals (over two separate sessions) at Pueblo City Schools. Pueblo, CO.
29. **McGuire, P.** (2011, December). Improving kindergarten teachers' emotional support and number sense instruction. Three-hour professional development seminar delivered to 35 kindergarten teachers, math coaches, and principals (over two separate sessions) at Pueblo City Schools. Pueblo, CO.
30. **McGuire, P.** (2011, December). Building a better teacher part III: Developing measurement understanding in pre-k mathematics. Three-hour professional development seminar delivered to 100 pre-kindergarten teachers, math coaches, and principals (over four separate sessions) at Pueblo City Schools. Pueblo, CO.
31. **McGuire, P.** (2011, October). Building a better teacher part II: Developing geometric understanding in pre-k mathematics. Three-hour professional development seminar delivered to 100 pre-kindergarten teachers, math coaches and principals (over four separate sessions) at Pueblo City Schools. Pueblo, CO.
32. **McGuire, P.** (2011, September). Building a better teacher part I: Developing number sense understanding in pre-k mathematics. Three-hour professional development seminar delivered to 100 pre-kindergarten teachers, math coaches and principals (over four separate sessions) at Pueblo City Schools. Pueblo, CO.
33. **McGuire, P., & Weathers, J.** (2011, April). Cognitively guided instruction part two. Three-hour professional development seminar delivered to 120 first and second grade teachers (over two separate sessions) at Pueblo City Schools. Pueblo, CO.
34. **McGuire, P., & Weathers, J.** (2011, February). Introduction to cognitively guided instruction. Three-hour professional development seminar delivered to 120 first and second grade teachers (over two separate sessions) at Pueblo City Schools. Pueblo, CO.
35. **McGuire, P., & Weathers, J.** (2011, January). Introduction to mathematics misconceptions and formative assessment. Three-hour professional development

seminar delivered to 120 first and second grade teachers (over two separate sessions) at Pueblo City Schools. Pueblo, CO.

GRANTS AND SPONSORED ACTIVITIES

External Grants Funded (total external funding = **\$2,324,770**)

1. Powers, A., Anderson-Pence, K.L., **McGuire, P.**, & Valentine, A. (2018-2020). Recruitment and Retention: Supporting Mentors and Mathematics Teachers in SC BOCES. Colorado Department of Higher Education. Total amount funded = **\$115,909** (UCCS subaward = \$27,609). Co-principal investigator.
2. **McGuire, P.**, Block, R., Hines, L.M., & Christensen, T.M. (2017-2022). Supporting Noyce scholars through professional learning communities. The National Science Foundation – Robert Noyce Scholarship Program. NSF award #1660679. Total amount funded = **\$1,172,688**. Principal investigator.
3. Kalita, J., Ventura, J., & **McGuire, P.** (2017-2020). Research Experience for Undergraduates (REU) Site: Machine Learning in Natural Language Processing and Computer Vision. The National Science Foundation - Division of Computer Network Systems. NSF award #1659788. Total amount funded = **\$379,853**. External evaluator.
4. Bakari, S., Gaddis, B., & **McGuire, P.** (2014-2018*). Gateways to Success. US Department of Education. Total amount funded = **\$2,020,612**. Senior personnel (*added to project as senior personnel during summer of 2018; award not included in total external funding amount listed above).
5. Anderson-Pence, K.L., **McGuire, P.**, Powers, A., & Valentine, A. (2017-2018). Colorado's Mathematics and Science Partnership (MSP) program. Colorado Department of Education. Total amount funded = **\$400,000** (UCCS subaward = \$41,025). Co-principal investigator.
6. **McGuire, P.**, & Bermudez, D. (2014-2015). Math CLASS for pre-kindergarten teachers: Improving the quality of teacher-child interactions. Temple Hoyne Buell Foundation. Total amount funded = **\$50,000**. Principal investigator.
7. Weathers, J., **McGuire, P.**, & Gagliano, D. (2010-2011). Uncovering and addressing student misconceptions: Improving elementary teachers' formative assessment capacity and mathematics pedagogical content knowledge. Colorado Department of Higher Education. Total amount funded = **\$206,320**. Project director.

External Grants Pending

1. Zhuang, Y., Kalita, J., & **McGuire, P.** (2019-2021). Research experience for teachers: Learning to code with machine learning. The National Science Foundation. Total requested budget = **\$595,988**. Senior personnel.
2. **McGuire, P.**, Hines, L.M., & Gorder, P. (2019-2022). Boundary crossing in STEM teacher education project (BC-STEP): Enhancing undergraduate teacher preparation in conjunction with in-service teachers. Improving Undergraduate STEM Education (IUSE). The National Science Foundation. Total requested budget = **\$295,420**. Principal investigator.

Internally Sponsored Research Activities:

1. **McGuire, P.**, & Herron, B. (2018). Booked on Math. Project funded by the UCCS Undergraduate Research Academy. Amount funded = **\$3,500**. Faculty mentor for Breanna Herron.
2. **McGuire, P.**, & Kupferman, S. (2018). Bringing virtual reality technology to life in teacher prep. UCCS Teaching Enhancement Grant. Amount funded = **\$490**. Co-principal investigator.
3. **McGuire, P.** (2016). Online course enhancement grant. CURR 5171: K-12 web-based educational resources. Sponsored activity funded by the UCCS Faculty Resource Center. Amount funded = **\$3,000**.
4. **McGuire, P.**, DaLee, J., & Turner, C. (2014-2015). Supporting informal STEM learning at two local community centers. UCCS College of Education Research Roundtable. Amount funded = **\$3,500**. Principal investigator.
5. **McGuire, P.** (2011-2012). Supporting high quality mathematics teaching and learning in at-risk pre-kindergarten classrooms. UCCS Committee for Research and Creative Work (CRCW) Grant. Amount funded = **\$7,500**. Principal investigator.
6. **McGuire, P.** (2011). Teaching veteran teachers new tricks: 21st century technology support for 20th century teachers. Curriculum grant in aging from the UCCS Gerontology Center. Amount funded = **\$500**. Principal investigator.
7. **McGuire, P.** (2010). Audience response system software. UCCS Teaching Enhancement Grant. Amount funded = **\$500**. Principal investigator.

National and International Conference Reviews

Ireland International Conference on Education Session Chair	2018
AERA Conference Proposal Reviewer	2015
AECT Conference Proposal Reviewer	2013

Ad Hoc Manuscript Reviewer

Early Education and Development
Child and Youth Services
Early Childhood Education Journal
Educational Evaluation and Policy Analysis
Education Sciences
Learning and Individual Differences
Research in Educational Assessment and Evaluation in Early Childhood Education
School Science and Mathematics

TEACHING

University of Colorado Colorado Springs

1. CURR 4170/5170 - Introduction to Technology in Education	F10, S17*, F18*
2. CURR 5171 - K-12 Web-based Educational Resources ^{&}	S11, S16*, S17*, S19*
3. CURR 5172 - Multimedia Development for K-12 Educators	F11*
4. CURR 5304 - Math and Cognition	S11, S12, S13, S14
5. GPS 1010 - Off and Running	F15, F16, F17, F18
6. IECE 4000 - Math and Numeracy in Early Childhood	F14, F15, F16, F17
7. TED 3010 - Early Diverse Field Experience	F13
8. TED 4920/CURR 5492 - Secondary Math Methods	F10, F11, S13*
9. UTED 3020 - Classroom Interactions [^]	S12, F12, S13, F13, S14, F14, S15, F15, S16, F16, F17, F18, S19

* Indicates fully online course

[^] Indicates course with on-site field supervision of pre-service teacher candidates

[&] Earned Quality Matters online course certification

Master's Level Independent Studies in Education (Number of students advised)

CURR 5120 – Instructional Technology Project (11)
 CURR 5171 – K-12 Web-Based Educational Resources (2)
 CURR 5304 – Mathematics and Cognition (3)
 CURR 5305 – Teaching and Assessing Manipulative-Based Mathematical Inquiry (1)
 CURR 9600 – Independent Study in Curriculum and Instruction (2)
 CURR 9603 – Independent Study in Educational and Computer Technology (2)

Other Graduate Level Students Advised

Kimberly Mastropietro – College of Engineering (Master’s Thesis)

RECOGNITIONS & AWARDS

University of Colorado Colorado Springs

Faculty Fellow (with David Weiss) - UCCS Faculty Resource Center	2018
CU System-Wide Excellence in Leadership Program Cohort	2016-2017
UCCS Teaching Online Certificate Program	2016
College of Education - Dean’s Award for Inquiry	2014
National Science Foundation (NSF) Early Career Symposium Award	2011

University of Virginia (2007-2010)

Educational Leadership and Foundations Program Graduate Fellow	
AECT Outstanding Instructional Design Practice Award	2010
<ul style="list-style-type: none"> Designed mathematics curricula and online teacher supports for MyTeachingPartner Math-Science, project director: Mable Kinzie 	

Bethel Park High School (2005-2007)

Bethel Park School District Teacher Excellence Nominee	2007
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Duquesne University

Dean’s Teaching Fellow. Awarded to the top 5% of all student teachers	2005
Atlantic 10 Commissioner’s Cup Honor Roll	2000-2005
Cross Country Scholarship	2000-2005
Pennsylvania Higher Education Assistance Agency SciTech Scholarship	2002-2004
President’s Academic Merit Scholarship	2000-2004
Provost’s Academic Merit Scholarship	2000-2004

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

100Kin10

American Educational Research Association (AERA)

Association for the Advancement of Computing in Education (AACE)

Association for Educational Communications and Technology (AECT)

Colorado Council of Teachers of Mathematics (CCTM)

International Society for Technology and Education (ISTE)

National Council of Teachers of Mathematics (NCTM)

School Science and Mathematics Association (SSMA)
Society for Information Technology and Teacher Education (SITE)

SERVICE & LEADERSHIP

UCCS College of Education Job Search Committees

UCCSTeach Master Teacher (chair)	2017
Assistant Professor of Inclusive Early Childhood Education (chair)	2017
Assistant Professor of Inclusive Early Childhood Education	2015
UCCSTeach Master Teacher	2015
Dean	2014
Assistant Professor of Mathematics Education (chair)	2014
UCCSTeach Master Teachers (2) (chair)	2013
UCCSTeach Master Math Teacher	2012
UCCS Supervisor Position (chair)	2012
UCCSTeach Master Science Teacher (chair)	2012
UCCSTeach Program Coordinator (chair)	
2011	
Curriculum & Instruction Program Assistant	2011
Curriculum & Instruction Senior Instructor	2011
UCCSTeach Master Teachers (2)	2011

Department and Program-Level Service

NCATE Secondary Mathematics Accreditation Report Preparation

College-Level Service

College of Education Mentoring Taskforce	2018
Research Roundtable Group (chair)	2012-2014
Technology and Innovations Committee	2010-
Assessment and Accreditation Committee	2012-2015
College of Education Coordinating Council	2015-
Reappointment, Promotion, and Tenure Review Committees:	
<ul style="list-style-type: none"> ● Primary review committee member (chair) 2018 <ul style="list-style-type: none"> ○ Lissanna Follari (comprehensive) ○ Kylie Swanson Hoyle (reappointment) ○ Monica Yoo (tenure) 	
<ul style="list-style-type: none"> ● Primary review committee member (chair) 2017 <ul style="list-style-type: none"> ○ Katie Anderson-Pence (comprehensive) 	

- Grant Clayton (comprehensive)
- Ji Hyun Oh (reappointment)
- Scott Kupferman (comprehensive)
- Primary review committee member 2016
 - Andrea Bingham (reappointment)

University-Level Service

UCCS STEM Days of Summer Conference (chair)	2018-
UCCS STEM Education Advisory Council (co-chair)	2018-
Mountain Lion Teaching and Learning Day Planning Committee (co-chair)	2018-
Mentoring of Pre-Tenure Faculty Policy Workgroup	2017-2018
William J. Hybl Sports Medicine and Performance Center Committee	2016-2017
Creative Research and Creative Works Proposal Review Committee	2014-
Online Task Force Committee	2011-2013
Compass Curriculum Committee	2015

CU System-Level Service

Faculty Council Communication Committee (FC ³)	2015-2017
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State- and National-Level Service

ASSISTments National Advisory Council	2014-
External program reviewer for MAT in Mathematics Education (chair)	2016

Educational Consulting

- Pueblo City Schools (PCS-60)
- MyTeachingPartner Math/Science Project*
- Junior Achievement
- Tools for Early Assessment in Mathematics
- South-Central Board of Cooperative Educational Services (SC-BOCES)