



MATTHEW J KOEHLER

PROFESSOR & ASSOCIATE DEAN FOR FACULTY AND ACADEMIC STAFF AFFAIRS
COLLEGE OF EDUCATION, MICHIGAN STATE UNIVERSITY

CONTACT

 mkoehler@msu.edu

 matt-koehler.com

EDUCATION

Ph.D.

Educational Psychology
University of Wisconsin
1999

Master's Degree

Computer Science (AI)
University of Wisconsin
1991

Bachelor's Degrees

Computer Science
University of Wisconsin
1989

Mathematics

University of Wisconsin
1989

SCHOLARSHIP

 [Google Scholar](#)

- Internationally recognized research on professional development
- Co-developer of Technological Pedagogical and Content Knowledge (TPACK) framework
- 200+ peer-reviewed publications, h-index: 61
- \$7 million in funded research

LEADERSHIP PROFILE

Academic leader with extensive experience managing faculty and academic staff development, evaluation, awards, and promotion. Currently serves as Associate Dean for Faculty and Academic Staff Affairs in the College of Education at Michigan State University, leading strategic initiatives that support career pathways, leadership development, and faculty success across a complex institutional environment.

Nationally and internationally recognized scholar of teaching, learning, and educational technology, with a record of translating research into scalable development programs and institutional practices. Demonstrated ability to align development efforts with institutional priorities, foster cross-unit collaboration, and build sustainable, evidence-informed systems that enhance faculty effectiveness and organizational capacity.

ADMINISTRATIVE LEADERSHIP EXPERIENCE

ASSOCIATE DEAN FOR FACULTY AND ACADEMIC STAFF AFFAIRS

College of Education, Michigan State University

2023 - Present

Provide strategic leadership for faculty and academic staff affairs within a large, diverse college, aligned with college and university priorities and policies.

- Lead the development and implementation of **faculty and academic staff development strategy**, including mentoring systems and promotion pathways
- Provide leadership on the college on **faculty and administrator policy, evaluation, and advancement systems**
- Foster **coordination across decentralized structures**, strengthening alignment between departmental practices and broader college and institutional goals
- Lead and promote **faculty governance**, and pathways for **inclusive decision making** and policy making
- Advanced **honorifics and recognition** for faculty, academic staff, and support staff

ASSISTANT DEAN FOR FACULTY AFFAIRS

College of Education, Michigan State University

2021 - 2023

- Partnered with departments to improve **consistency, transparency, and equity** in evaluation and promotion practices
- Developed **first college policies and promotion pathways** for fixed-term faculty and academic staff
- Lead administration and revision of **evaluation and promotion systems** for tenure stream faculty

INTERIM ASSISTANT DEAN FOR FACULTY AFFAIRS

College of Education, Michigan State University

2020 - 2021

- Provided leadership continuity during a period of institutional disruption
- Led the **COVID-19 transition to remote instruction**, including large-scale professional development, instructional supports, and management of initiatives

FACULTY & ACADEMIC STAFF DEVELOPMENT & LEADERSHIP

- Designed and led **faculty development initiatives** integrating teaching, technology, and learning.
- Developed **mentoring structures** to support retention, advancement, and inclusive excellence
- Developed **promotion pathways** for fixed-term faculty and academic staff
- Led **large-scale instructional support** efforts during institutional transition, including the rapid deployment of faculty development resources for remote and hybrid instruction.
- Promoted **innovation in teaching and digital pedagogy**, grounded in research and best practices
- Collaborated across units to align **local and centralized development efforts** and enhance institutional coherence

FACULTY APPOINTMENTS

PROFESSOR, Educational Psychology & Educational Technology

College of Education, Michigan State University

2012 - Present

ASSOCIATE PROFESSOR, Educational Psychology & Educational Technology

College of Education, Michigan State University

2006 - 2012

ASSISTANT PROFESSOR, Learning Technology & Culture

College of Education, Michigan State University

2000 - 2006

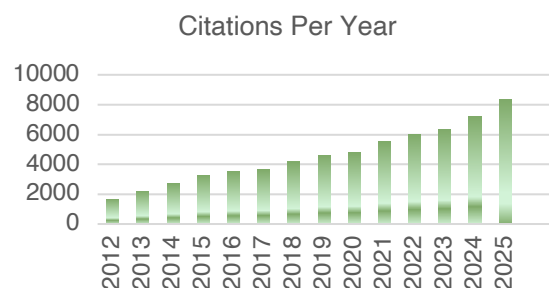
LECTURER, Educational Psychology

College of Education, University of Wisconsin - Madison

1998 - 1999

SCHOLARSHIP AND RESEARCH PROFILE

Internationally recognized for innovation and leadership in educational technology; the pedagogical affordances of technologies for learning, and the development of the [Technological Pedagogical and Content Knowledge \(TPACK\) framework](#). With a focus on the professional development of educators, this work has been used in K-12 and university settings to develop the knowledge, skills, and practices of teachers. has received over \$7 million in grants and has more than 200 publications. Highly cited, he is [ranked among the top 2% of scientists worldwide](#).



H-index: 61

Citations: 73,921

SELECTED FUNDED RESEARCH

Research and Evaluation of the Design-based Engineering Curriculum

2007-2009

MSU Intramural Research Grant- \$60,000 : PI: Buch, CO-PIs: Koehler, Mishra.

Problem Based Learning Project for Teachers

2004-2009

National Science Foundation Grant :: \$4,143,024 :: PI: Eberhardt CO-PIs: Koehler, Lundeberg, Parker.

Professional Development in Early Grade Reading

2004– 2007

U.S. Department of Education Grant:: \$1,418,091:: PI – [Powell](#) (Purdue), PI (MSU, CO-PI on main grant): Koehler.

Teachers as Designers A Problem-Based Approach to Preparing Teachers

2003-2007

U.S. Department of Education :: \$1,837,313 :: PI: [Zhao](#) CO-PIs: [Mishra](#), [Koehler](#), [Urban-Lurain](#), [Rosaen](#).

Communities Of Designers: A Comprehensive Project-Based Approach

2000-2003

U.S. Department of Education :: Grant #: P342A000193. \$ 1,419,552 :: PI: [Zhao](#) CO-PI: [Mishra](#).

TEACHING AND ADVISING

AWARDS

- 2013 – MSU AT&T Instructional Technology Award. Honorable Mention for Fully Online Course.
- 2008 – MSU-AT&T Instructional Technology Award: Best fully online course.

PAST AND PRESENT DOCTORAL STUDENTS

- Andrea Zellner
- Mete Akcaoglu
- Spencer Greenhalgh
- Josh Rosenberg
- Eric Dickens
- Chris Sloan
- Naiyi Xie Fincham
- Alicia Trotman
- Tianyi Zhang-Ulyshen
- Brian Arnold
- Aman Yadav
- Michael Phillips
- Sean Kotke
- Fei Gao
- Haixia Liu
- Sukanya Moudgalya
- Sarah Keenan-Lechel
- Elizabeth Boltz Owens
- Yeşim Akar-Hozman
- Kiera Zhou

UNDERGRADUATE COURSES TAUGHT

- CEP 416 – Technology and Education
- TE150 – Reflections on Learning

MASTERS COURSES TAUGHT

- CEP 800 – Psychology of Learning in School and Other Settings
- CEP 801 – Psychological Development: Learner Differences and Communalities
- CEP 806 – Learning Science with Technology
- CEP 807 – Proseminar in Educational Technology
- CEP 813 – Electronic Portfolios for Teaching and Learning
- CEP 817 – Learning Technology By Design
- ED 870 - Capstone Seminar
- CEP 882 – Special Topics in Educational Technology

DOCTORAL COURSES TAUGHT

- CEP 900 – Proseminar in Educational Psychology and Educational Technology
- CEP 901 – Proseminar in Educational Technology
- CEP 909 – Cognition and Technology
- CEP 914 – Learning Science with Technology: Theoretical Perspectives
- CEP 930 – Educational Inquiry
- CEP 955 – Research Design
- CEP 996 – Mind, Media, and Learning
- CEP 990 – Independent Study

SERVICE

DEPARTMENT, COLLEGE, AND UNIVERSITY

Ex-Officio Member, College Reappointment Promotion and Tenure Committee

2020 - Present

Ex-Officio Member, College Faculty Advisory Committee	2025 - Present
Ex-Officio Member, College FOCUS Committee	2025 - Present
Fixed Term Promotion Policies Working Group	2023 - Present
Associate Dean for Faculty and Academic Staff Affairs	2023 - Present
CEPSE Department Faculty Advisory Committee (FAC)	2023 - Present
CEPSE Fixed-Term Faculty and Academic Staff Review Committee	2022 - Present
Michigan State University Council of Faculty Affairs Deans (COFAD)	2020 - Present
Assistant Dean for Faculty Affairs, College of Education	2020 - 2023
Chair, CEPSE Department Faculty Advisory Committee (FAC)	2020 - 2021
Interim Assistant Dean for Faculty Affairs, College of Education	2019 - 2020
Co-Chair of ad-hoc committee for the annual review of Fixed-Term Faculty and Academic Staff in CEPSE	2018 - 2019
EPET Representative to the CEPSE Department Faculty Advisory Committee (FAC)	2018 - 2020
Co-Chair of the College Reappointment, Promotion, and Tenure (RPT) Committee	2016 - 2018
Member of the College Faculty Advisory Committee (FAC)	2014 - 2016
Member of the College of Education Online APPC	2014 - 2016
Chair of the College Reappointment, Promotion, and Tenure (RPT) Committee	2012 - 2013
Director of the Hybrid PhD program in Educational Technology	2010 - 2013
Department Reappointment, Promotion, and Tenure Committee	2009 - 2010
Co-coordinator of Doctoral Program in Educational Psychology and Educational Technology	2007 - 2013
Masters of Art in Education (MAED) Academic Personnel Policy Committee (APPC)	2006 - 2008
Department Faculty Advisory Committee (Chair 2007-2009)	2006 - 2009
College Curriculum Committee (Chair 2004-2005)	2001 - 2006
Department Curriculum Committee (Chair from 2002-2005)	2000 - 2006

NATIONAL AND INTERNATIONAL

Editorial Board, Journal of Technology and Teacher Education	2016 - Present
Conference Program Committee, Society for Information Technology and Teacher Education	2010 - Present
Standing Review Panel Member for the Institute of Educational Sciences (IES)	2008 - Present
Executive Editor of TPACK Wiki (tpack.org)	2007 - Present
Editorial Board, Cognition and Instruction	2003 - Present
Reviewer for Cognition and Instruction	2002 - Present
Reviewer for the Journal of Educational Computing Research	2000 - Present
Program Co-Chair for the 2011 SITE Annual Meeting	2010 - 2011

Executive Board, Society for Information Technology and Teacher Education (SITE)	2009 - 2011
Vice-Chair of TPACK SITE Special Interest Group (SIG)	2008 - 2011
Reviewer for Journal of the Learning Sciences	2000 - 2004

AWARDS

Academic Achievement Network (AAN) Leadership Fellow – Michigan State University	2019
Best Paper Award; Society for Information Technology and Teacher Education International Conference	2019
Best Paper Award; Society for Information Technology and Teacher Education International Conference	2017
Best Paper Award; Technological Pedagogical Content Knowledge SIG, SITE Conference	2016
Best Paper Award; Society for Information Technology and Teacher Education International Conference	2016
Best Practice Award for the Innovative use of Technology; AACTE	2013
MSU AT&T Instructional Technology Award (Honorable Mention, Fully Online Course)	2013
Best Paper Award; Society for Information Technology and Teacher Education International Conference	2009
MSU AT&T Instructional Technology Award: Best Fully Online Course	2008

PUBLICATIONS

BOOKS

- Phillips, M., Baran, E., Mishra, P., & Koehler, M.J. (Eds.) (2025)** Handbook of Technological Pedagogical Content Knowledge (TPACK) for Educators, Third Edition. Routledge.
- Herring, M., Koehler, M.J., & Mishra, P. (Eds.) (2016)**. Handbook of technological pedagogical content knowledge for educators (2nd edition). New York: Routledge
- Koehler, M.J., & Mishra, P. (Eds.) (2011)**. Proceedings of Society for Information Technology & Teacher Education International Conference 2011. Chesapeake, VA: AACE.
- Mishra, P., Koehler, M.J., & Zhao, Y. (Eds.) (2007)**. Faculty development by design: Integrating technology in higher education. Information Age Publishing, Greenwich, CT.

ARTICLES IN PEER-REVIEWED JOURNALS

- Petko, D., Mishra, P., & Koehler, M.J. (2025)**. TPACK in context: An updated model. *Computers and Education Open*, 8. DOI: [10.1016/j.caeo.2025.100244](https://doi.org/10.1016/j.caeo.2025.100244).
- Petko, D., Koehler, M.J., & Mishra, P. (2024)**. Placing TPACK in context: Looking at the big picture. *Computers and Education Open*. DOI: [10.1016/j.caeo.2024.100236](https://doi.org/10.1016/j.caeo.2024.100236).
- Allman, B., Kimmons, R., Wang, W., Bao, H. Rosenberg, J.M., & Koehler, M.J. (2024)**. Trends and topics in educational technology, 2024 Edition. *TechTrends*, 68, 402–410. DOI: 10.1007/s11528-024-00950-5.
- Greenhow, C., Graham, C. R., & Koehler, M. J. (2022)**. Foundations of online learning: Challenges and opportunities. *Educational Psychologist*, 57(3), 131-147.

- Shelton, C. C., Koehler, M. J., Greenhalgh, S. P., & Carpenter, J. P., (2022).** Lifting the veil on TeachersPayTeachers.com: an investigation of educational marketplace offerings and downloads. *Learning, Media and Technology*, 22(2), 268-287. [DOI]
- Koehler, M. J., Shelton, C. C., Carpenter, J. P., & Greenhalgh, S. P. (2020).** Where does all the money go? Free and paid transactions on TeachersPayTeachers.com. *Teachers College Record*.
- Rosenberg, J. M., Reid, J., Dyer, E., Koehler, M. J., Fischer, C., & McKenna, T. J. (2020).** Idle chatter or compelling conversation? The potential of the social media-based #NGSSchat network as a support for science education reform efforts. *Journal of Research in Science Teaching*, 57(9), 1322-1355. <https://onlinelibrary.wiley.com/doi/10.1002/tea.21660>
- Carpenter, J. P., Staudt Willet, K. B., Koehler, M. J., & Greenhalgh, S. P. (2020).** Spam and educators' Twitter use: Methodological challenges and considerations. *TechTrends*, 64, 460-469. <https://doi.org/10.1007/s11528-019-00466-3>
- Saubern, R., Urbach, D. Koehler, M.J., & Phillips, M. (2020).** Describing increasing proficiency in teachers' knowledge of the effective use of digital technology. *Computers & Education*, 147.
- Greenhalgh, S. P. , Rosenberg, J. M., Staudt Willet, K. B., Koehler, M. J., & Akcaoglu, M. (2020).** Identifying multiple learning spaces within a single teacher-focused Twitter hashtag. *Computers & Education*, 148. <https://doi.org/10.1016/j.compedu.2020.103809>.
- Greenhalgh, S. P., Staudt Willet, B. K., & Koehler, M. J. (2019).** Approaches to Mormon identity and practice in the #ldsconf Twitter hashtag. *Journal of Media and Religion*, 18, 122-133.
- Greenhalgh, S. P., Koehler, M. J., & Boltz, L. O. (2019).** The fun of its parts: Design and player reception of educational board games. *Contemporary Issues in Technology and Teacher Education*, 19(3), 469-497.
- Carpenter, J. P., Staudt Willet, K. B., Koehler, M. J., & Greenhalgh, S. P. (2019).** Spam and educators' Twitter use: Methodological challenges and considerations. *TechTrends*. <https://doi.org/10.1007/s11528-019-00466-3>
- Krutka, D. G., Manca, S., Galvin, S. M., Greenhow, C., Koehler, M. J. & Askari, E. (2019).** Teaching “against” social media: Confronting problems of profit in the curriculum. *Teachers College Record*, 121(14).
- Liu, H., Wang, L., & Koehler, M. J. (2019).** Exploring the intention-behavior gap in the technology acceptance model: A mixed-methods study in the context of foreign-language teaching in China. *British Journal of Educational Technology*, 50(5), 2536-2556. doi:10.1111/bjet.12824
- Greenhalgh, S.P., Staudt Willet, K.B., Rosenberg, J.M., & Koehler, M.J. (2018).** Tweet, and we shall find: Using digital methods to locate participants in educational hashtags. *TechTrends*, <https://doi.org/10.1007/s11528-018-0313-6>
- Harris, J., Phillips, M., Koehler, M., & Rosenberg, J. (2017).** TPCK/TPACK research and development: Past, present, and future directions. *Australasian Journal of Educational Technology*, 33(3), i-viii. <https://doi.org/10.14742/ajet.3907>
- Rosenberg, J. M., Greenhalgh, S. P., Wolf, L. G., & Koehler, M. J. (2017).** Strategies, use, and impact of social media for supporting teacher community within professional development: The case of one urban STEM program. *Journal of Computers in Mathematics and Science Teaching*, 36(3), 255-267.
- Koehler, M.J., Arnold, B., Greenhalgh, S.P., & Boltz, L.O. (2017).** A taxonomy approach to studying how gamers review games. *Simulation & Gaming*. doi: 10.1177/1046878117703680.
- Koehler, M.J., Greenhalgh, S.P., Rosenberg, J.M., & Keenan, S.G. (2017).** What the tech is going on with teachers' digital teaching portfolios? Using the TPACK framework to analyze teachers' technological understanding. *Journal of Technology and Teacher Education*, 25(1), 31-59.

- Greenhalgh, S. P., Koehler, M. J. (2017).** 28 days later: Twitter hashtags as “just in time” teacher professional development. *TechTrends*, 61, 273–281 DOI: 10.1007/s11528-016-0142-4.
- Rosenberg, J.M., Greenhalgh, S.P., Koehler, M.J., Hamilton, E.R., & Akcaoglu, M. (2016).** An investigation of state educational twitter hashtags (SETHs) as affinity spaces. *E-Learning and Digital Media*, 13(1-2) 24-44.
- Greenhalgh, S. P., Koehler, M. J. (2016).** 28 days later: Twitter hashtags as “just in time” teacher professional development. *TechTrends*. DOI: 10.1007/s11528-016-0142-4.
- Rosenberg, J.M., Greenhalgh, S.P., Koehler, M.J., Hamilton, E.R., & Akcaoglu, M. (2016).** An investigation of state educational twitter hashtags (SETHs) as affinity spaces. *E-Learning and Digital Media*, 13(1-2) 24-44.
- Zhang Ulshen, T., Koehler, M.J., & Gao, F. (2015).** Understanding the connection between epistemic beliefs and internet searching. *Journal of Educational Computing Research*. DOI: 10.1177/0735633115599604
- Koehler, M.J., Mishra, P., & Cain, W. (2015).** ¿ Qué son los saberes tecnológicos y pedagógicos del contenido (tpack)? *Virtualidad, educación y ciencia*, 6(10), 9-23.
- Zhang, M., Parker, J., Koehler, M. J., & Eberhardt, J. (2015).** Understanding inservice science teachers’ needs for professional development. *Journal of Science Teacher Education*, 26(5), 471-496. DOI: 10.1007/s10972-015-9433-4
- Rosenberg, J.M., & Koehler, M.J. (2015).** Context and technological pedagogical content knowledge (tpack): A systematic review. *Journal of Research on Technology in Education*, 47(3), 186-210. DOI:10.1080/15391523.2015.1052663
- Akcaoglu, M., & Koehler, M.J. (2014).** Cognitive outcomes from the game-design and learning (gdl) after-school program. *Computers & Education*, 75, 72-81. DOI:10.1016/j.compedu.2014.02.003
- Koehler, M.J., Mishra, P., & Cain, W. (2013).** What is technological pedagogical content (TPACK)? *Journal of Education*, 193(3), 13-19.
- Cavanagh, R.F., & Koehler, M.J. (2013).** A Turn toward specifying validity criteria in the measurement of technological pedagogical content knowledge (tpack). *Journal of Research on Technology in Education*, 46(2), 129-148.
- Koehler, M. J., Zellner, A. L., Roseth, C. J., Dickson, R. K., Dickson, P. Bell, J. (2013).** Introducing the first hybrid doctoral program in educational technology. *TechTrends*, 57(3), 47-53. DOI: 10.1007/s11528-013-0662-0
- McConnell, T. J., Parker, J. M., Eberhardt, J., Koehler, M. J., & Lundeberg, M. A. (2013).** Virtual professional learning communities: Teachers’ perceptions of virtual versus face-to-face professional development. *Journal of Science Education and Technology*, 22(3), 267-277.
- DeSchryver, M. D., Leahy, S. M., Koehler, M. J., & Wolf, L. G. (2013).** The habits of mind necessary to generate new ways of teaching in a career of constant change. *TechTrends*, 57(3), 41. DOI: 10.1007/s11528-013-0661-1
- Kereluik, K., Mishra, P., & Koehler, M. J. (2011, Winter).** On learning to subvert signs: Literacy, technology and the TPACK framework. *The California Reader*, 44(2), 12-18.
- Yadav, A., Phillips, M., Lundeberg, M. A., Koehler, M. J., Clouse, K., & Dirkin, K. H. (2011).** If a picture is worth a thousand words is video worth a million? Differences in affective and cognitive processing of video and text cases. *Journal of Computing in Higher Education*, 23(1), 15-37. DOI 10.1007/s12528-011-9042-y.

- Mishra, P., Koehler, M.J., & Henriksen, D. (2011).** The seven trans-disciplinary habits of mind: Extending the tpack framework towards 21st century learning. *Educational Technology, 11*(2), 22-28.
- Zhang, M., Lundeberg, M.A., Koehler, M.J., & Eberhardt, J. (2011).** Understanding affordances and challenges of three types of video for teacher professional development. *Teaching and Teacher Education, 27*(2), 454-462.
- Zhang, M., Passalacqua S., Lundeberg M., Koehler, M. J., Eberhardt, J., Parker, J., Urban-Lurain, M., Zhang, T., and Paik, S. (2010).** "Science Talks" in kindergarten classrooms: Improving classroom practice through collaborative action research. *Journal of Science Teacher Education, 21*, 161-179. doi: 10.1007/s10972-009-9161-8.
- Powell, D.R., Diamond, K.E., Burchinal, M.R., & Koehler, M.J. (2010).** Effects of an early professional development intervention on head start teachers and children. *Journal of Educational Psychology, 102*(2), 299-312. doi: 10.1037/a0017763.
- Zhang, M., Lundeberg, M., McConnell, T.J., Koehler, M.J. & Eberhardt, J. (2010).** Using questioning to facilitate discussion of science teaching problems in teacher professional development. *The Interdisciplinary Journal of Problem-based Learning, 4*(1), 57-82.
- Powell, D.R., Diamond, K.E., & Koehler, M.J. (2010).** Use of a case-based hypermedia resource in an early literacy coaching intervention with pre-kindergarten teachers. *Topics in Early Childhood Special Education, 29*(4), 239-249. doi: 10.1177/0271121409353610.
- Malik, Q., Koehler, M.J., Mishra, P., Buch, N., Shanblatt, M., & Pierce, S.J. (2010).** Understanding student attitudes in a freshman design sequence. *International Journal of Engineering Education, 26*(5), 1179-1191.
- Gao, F., Noh, J.M., & Koehler, M.J. (2009).** Comparing role-playing activities in second Life and face-to-face environments. *Journal of Interactive Learning Research, 12*(4), 423-443.
- Mishra, P. & Koehler. M. J. (2009).** Too cool for school? No way! Using the TPACK framework: You can have your hot tools and teach with them, too. *Learning & Leading with Technology, 36*(7), 14-18.
- Harris, J., Mishra, P., & Koehler, M.J. (2009).** Teachers' technological pedagogical content knowledge and learning activity types: Curriculum-based technology integration reframed. *Journal of Research on Technology in Education, 41*(4), 393-416.
- Zhang, T., Koehler, M.J., & Spatariu, A. (2009).** The development of the motivation for critical reasoning in online discussions inventory. *American Journal of Distance Education, 23*(4), 194-211. DOI:10.1080/08923640903294411
- Mishra, P., Koehler, M. J., & Kereluik, K. (2009).** The song remains the same: Looking back to the future of educational technology. *TechTrends, 53*(5), 48-53. DOI:10.1007/s11528-009-0325-3.
- Koehler, M.J., & Mishra, P. (2009).** What Is technological pedagogical content knowledge? *Contemporary Issues in Technology and Teacher Education (CITE), 9*(1), 60-70.
- Schmidt, D. A., Baran, E., Thompson A. D., Koehler, M. J., Mishra, P. & Shin, T. (2009).** Technological pedagogical content knowledge (tpack): The development and validation of an assessment instrument for preservice teachers. *Journal of Research on Technology in Education, 42*(2), 123-149.
- McConnell, T. J., Zhang, M., Koehler, M. J., Lundeberg, M. A., Urban-Lurain, M, Parker, J. M, and Eberhardt, J. (2008).** A lesson in teaching, starring you. *Journal of Staff Development, 29*(4), 39-42.
- Weizman, A., Covitt, B.A., Koehler, M.J., Lundeberg, M.A., Oslund, J.A., Low, M.A, Eberhardt, J., Urban-Lurain, M. (2008).** Measuring teachers' learning from a problem-based learning approach to professional development in science education. *Interdisciplinary Journal of Problem-based Learning, 2*(2), 29-60. DOI: 10.7771/1541-5015.1081

- McConnell, T.J., Eberhardt, J., Parker, J., Stanaway, J., Lundeberg, M., Koehler, M.J., Urban-Lurain, M. & PBL Staff (2008).** The PBL Project for Teachers: Using problem-based learning to guide K-12 science teachers' professional development. *MSTA Journal*, 53(1), 16-21.
- McConnell, T. J., Stanaway, J. C., Eberhardt, J., Parker, J. M., Lundeberg, M. A., & Koehler, M. J. (2008).** Building a better PBL problem: Lessons learned from the PBL project for teachers. *MSTA Journal*, 53(1), 52-57.
- Yadav, A., & Koehler, M.J. (2007).** The role of epistemological beliefs in preservice teachers' interpretation of video cases of early-grade literacy instruction. *Journal of Technology and Teacher Education*, 15(3), 335-361.
- Koehler, M.J., Mishra, P., & Yahya, K. (2007).** Tracing the development of teacher knowledge in a design seminar: Integrating content, pedagogy, & technology. *Computers and Education*, 49(3), 740-762. DOI: 10.1016/j.compedu.2005.11.012
- Mishra, P., & Koehler, M. J. (2006).** Technological pedagogical content knowledge: A framework for teacher knowledge. *Teachers College Record*, 108(6), 1017-1054. doi: 10.1111/j.1467-9620.2006.00684.x
- Koehler, M.J. & Mishra, P. (2005).** What happens when teachers design educational technology? The development of technological pedagogical content knowledge. *Journal of Educational Computing Research*, 32(2), 131-152. DOI: 10.2190/0EW7-01WB-BKHL-QDYV
- Koehler, M.J., & Mishra, P. (2005).** Teachers learning technology by design. *Journal of Computing in Teacher Education*, 21(3), 94-102
- Koehler, M.J., Yadav, A., Phillips, M.M., & Cavazos-Kottke, S. (2005).** What is video good for? Examining how media and story genre interact. *Journal of Educational Multimedia and Hypermedia*, 14(3), 249-272.
- Lima, M., Koehler, M.J., & Spiro, R.J. (2004).** Cognitive flexibility hypertexts and the development of creative and critical thinking in business education: The Panteon project. *FACEF Pesquisa*, 7(3), 109-127.
- Koehler, M.J., Mishra, P., Hershey, K., & Peruski, L. (2004).** With a little help from your students: A new model for faculty development and online course design. *Journal of Technology and Teacher Education*, 12(1), 25-55.
- Lima, M., Koehler, M.J., & Spiro, R.J. (2004).** Collaborative interactivity and integrated thinking in Brazilian business schools using cognitive flexibility hypertexts: The panteon project. *Journal of Educational Computing Research*, 31(4), 371-406.
- Koehler, M.J. (2002).** Designing case-based hypermedia for developing understanding of children's mathematical reasoning. *Cognition and Instruction*, 20(2), 151-195. DOI: 10.1207/S1532690XCI2002_2
- Koehler, M. J., & Mishra, P. (2002).** Art from randomness. How Inverso uses chance, to create haiku. *Interactive Multimedia Electronic Journal of Computer-Enhanced Learning*, 4(1).
- Koehler, M.J., & Levin, J.R. (2000).** RegRand: Statistical software for the multiple-baseline design. *Behavior Research Methods, Instruments, and Computers*, 32(2), 367-71. DOI: 10.3758/BF03207807
- Koehler, M.J., & Lehrer, R. (1998).** Designing a hypermedia tool for learning about children's mathematical cognition. *Journal of Educational Computing Research*, 18(2), 123-145.
- Koehler, M.J., & Levin, J. R. (1998).** Regulated randomization: a potentially sharper analytical tool for the multiple-baseline design. *Psychological Methods*, 3(2), 206-217. DOI: 10.1037/1082-989X.3.2.206

Phillips, M., Baran, E., Mishra, P., & Koehler, M.J. (2025) Introduction to the third edition of the TPACK handbook. In M. Phillips, E. Baran, P. Mishra, & MJ Koehler (Eds.) *Handbook of Technological Pedagogical Content Knowledge (TPACK) for Educators, Third Edition* (pp. ix-xiv). Routledge.

Greenhalgh, S. P., Koehler, M. J., Rosenberg, J. M., & Staudt Willet, K. B. (2021). Considerations for using social media data in learning design and technology research. In E. J. Romero-Hall (Ed.), *Research methods in learning design and technology*. New York, NY: Routledge

Greenhalgh, S. P. & Koehler, M. J. (2019). "Pretty good practices" for the design of teacher portfolio courses. In M. Khosrow-Pour (Ed.), *Pre-service and in-service teacher education: Concepts, methodologies, tools, and applications* (pp. 126-151). Hershey, PA: IGI Global. [Curated reprint of previously-published material in research anthology]

Staudt Willet, K. B., Koehler, M. J., & Greenhalgh, S. P. (2018). A tweet by any other frame: Three approaches to studying educator interactions on Twitter. In T. J. Bastiaens & G. Marks (Eds.), *Education and Information Technology Annual 2018: A Selection of AACE Award Papers* (pp. 67-74). Waynesville, NC: Association for the Advancement of Computing in Education (AACE). [Invited reprint of conference proceedings in edited book]

Phillips, M.M., Koehler, M.J., Rosenberg, J.M., & Zunica, B. (2017). Revisiting conceptions of knowledge as part of the TPACK framework. In L. Liu & D. Gibson (Eds.), *Research highlights in technology and teacher education 2017* (pp. 21-28). Waynesville, NC: Association for the Advancement of Computing in Education (AACE).

Staudt Willet, K. B., Koehler, M. J., & Greenhalgh, S. P. (2017). A tweet by any other frame: Comparing three theoretical frameworks for studying educator interactions on Twitter. In L. Liu & D. Gibson (Eds.), *Research highlights in technology and teacher education 2017* (pp. 63-70). Waynesville, NC: Association for the Advancement of Computing in Education (AACE).

Keenan, S., Rosenberg, J. M., Greenhalgh, S. P., & Koehler, M. J. (2016). Examining teachers' technology use through digital portfolios. In L. Liu & D. C. Gibson (Eds.), *Research highlights in technology and teacher education 2016* (pp. 197-204). Waynesville, NC: Association for the Advancement of Computing in Education (AACE).

Phillips, M., Koehler, M. J., & Rosenberg, J.M. (2016). Considering context: teachers' TPACK development and enactment. In L. Liu & D. C. Gibson (Eds.), *Research highlights in technology and teacher education 2016* (pp. 53-60). Waynesville, NC: Association for the Advancement of Computing in Education (AACE).

Greenhalgh, S. P., Koehler, M. J., & Boltz, L.O. (2016). What we like when we like educational games: Examining the effect of design features on player enjoyment. In L. Liu & D. C. Gibson (Eds.), *Research highlights in technology and teacher education 2016* (pp. 95-102). Waynesville, NC: Association for the Advancement of Computing in Education (AACE).

Herring, M. C., Koehler, M. J., Mishra, P., Rosenberg, J. M., & Teske, J. (2016). Introduction to the Second Edition of the TPACK Handbook. In M.C. Herring, M.J. Koehler, and P. Mishra (Eds.), *Handbook of Technological Pedagogical Content Knowledge (TPACK) for Educators* (2nd Edition, pp. 1-8). New York: Routledge.

Koehler, M. J., Mishra, P., & Zellner, A. L. (2015). Mind the gap: Why TPACK case studies? In M. Hofer, L. Bell, & G. Bull (Eds.), *Practitioner's guide to technology pedagogy and content knowledge (TPACK): Rich media cases of teacher knowledge* (pp. 2.1-2.8). Waynesville, NC: Association for the Advancement of Computing in Education (AACE).

Rosenberg, J. M., Greenhalgh, S. P., & Koehler, M. J. (2015). A performance assessment of teachers' TPACK using artifacts from digital portfolios. In L. Liu & D. C. Gibson (Eds.), *Research highlights in*

technology and teacher education 2015 (pp. 189-196). Waynesville, NC: Association for the Advancement of Computing in Education (AACE). [Reprint of conference presentation in peer-reviewed book]

Koehler, M.J., & Mishra, P. (2015). TPACK (technological pedagogical content knowledge). In J. Spector (Ed.), *The SAGE encyclopedia of educational technology* (pp. 783-786). Thousand Oaks, CA: SAGE Publications, Inc. doi: <http://dx.doi.org/10.4135/9781483346397.n318>

Mishra, P., Koehler, M.J., & Greenhow, C. (2015). The work of educational psychologists in a digitally networked world. In L. Corno & E.M. Anderman (Eds.) *Handbook of Educational Psychology* (3rd edition) (pp. 29-40). New York: Routledge.

Rosenberg, J. M. , & Koehler, M. J. (2015). Context and teaching with technology in the digital age. In M. L. Niess & H. Gillow-Wiles (Eds.), *Handbook of research on teacher education in the digital age* (pp. 440-465). Hershey, PA: IGI Global. DOI: 10.4018/978-1-4666-8403-4.ch017

Greenhalgh, S. P. , & Koehler, M. J. (2015). "Pretty good practices" for the design of teacher portfolio courses. In M. L. Niess & H. Gillow-Wiles (Eds.), *Handbook of research on teacher education in the digital age* (pp. 256-280). Hershey, PA: IGI Global. DOI:10.4018/978-1-4666-8403-4.ch010

Zhang, M., Koehler, M.J., & Lundeberg, M. (2014). Affordances and challenges of different types of video for teachers' professional development. In B. Calandra & P.J. Rich (Eds.), *Digital video for teacher education: Research and practice* (pp. 147-163). New York: Routledge.

Koehler, M. J., Mishra, P., Kereluik, K., Shin, T. S., & Graham, C. R. (2014). The technological pedagogical content knowledge framework. In J.M. Spector, M.D. Merrill, J. Elen, & M.J. Bishop (Eds.), *Handbook of research on educational communications and technology* (pp. 101-111). Springer New York. DOI: DOI 10.1007/978-1-4614-3185-5_9

Koehler, M.J., Mishra, P., Akcoaglu, M., Rosenberg, J.M. (2013). Technological pedagogical content knowledge for teachers and teacher educators. In N. Bharati and S. Mishra (Eds.), *ICT integrated teacher education models* (pp. 1-8). New Delhi, India: Commonwealth Educational Media Center For Asia.

Koehler, M. J., Mishra, P., Kereluik, K., Shin, T. S., & Graham, C. R. (2014). The technological pedagogical content knowledge framework. In J.M. Spector, M.D. Merrill, J. Elen, & M.J. Bishop (Eds.), *Handbook of research on educational communications and technology* (pp. 101-111). Springer New York. DOI: DOI 10.1007/978-1-4614-3185-5_9

Koehler, M. J., Shin, T. S., & Mishra, P. (2012). How do we measure TPACK? Let me count the ways. In R. N. Ronau, C. R. Rakes, & M. L. Niess (Eds.), *Educational technology, teacher knowledge, and classroom impact: A research handbook on frameworks and approaches* (pp. 16-31). Hershey, PA: IGI Global

Mishra, P., Koehler, M.J., Zellner, A., & Kereluik, K. (2012). Thematic considerations in integrating TPACK into a graduate program. In D. Polly, C. Mims, & K. Persichitte (Eds.), *Creating technology-rich teacher education programs: Key issues* (pp. 1-12). Hershey, PA: IGI Global. DOI: 10.4018/978-1-4666-0014-0.ch001

Foster, A. N., Mishra, P., & Koehler, M. J. (2011). Digital game analysis: Using the technological pedagogical and content knowledge framework to determine the affordances of a game for learning. In M. S. Khine (Ed.), *Learning to play: exploring the future of education with video games* (pp. 189-212). New York: Peter Lang.

Koehler, M.J., & Mishra, P. (2008). Introducing tpck. AACTE Committee on Innovation and Technology (Ed.), *The handbook of technological pedagogical content knowledge (tpck) for educators* (pp. 3-29). Mahwah, NJ: Lawrence Erlbaum Associates.

Wong, D., Mishra, P., Koehler, M.J., & Siebenthal, S. (2007). Teaching as filmmaking: On appreciating the aesthetics of educational experience. In M. Girod & J. Steed (Eds.), *Technology in the college classroom: Education*. Stillwater, OK: New Forums Press.

- Petrosino, A. & Koehler, M.J. (2007).** Using anchor video to scaffold reflective practice in pre-service mathematics, science and literacy teacher education. In R. Goldman, R. Pea, B. Barron, & S. Derry (Eds.), *Video research in the learning sciences* (pp. 411-423). Mahwah, NJ: Lawrence Erlbaum Associates.
- Mishra, P., Koehler, M.J., & Zhao, Y. (2007).** Communities of designers: A Brief history and introduction. In P. Mishra, M.J. Koehler, & Y. Zhao (Eds.), *Faculty development by design: Integrating technology in higher education* (pp. 1-22). Information Age Publishing, Greenwich, CT.
- Mishra, P., & Koehler, M. J. (2003).** Not ‘what’ but ‘how’: Becoming design-wise about educational technology. In Y. Zhao. (Ed.). *What teachers should know about technology: Perspectives and practices* (pp. 99-122). Greenwich, CT: Information Age Publishing.
- Lehrer, R., Jacobson, C., Thoyre, G., Kemeny, V., Strom, D., Horvath, J., Gance, S., & Koehler, M. (1998).** Developing understanding of geometry and space in the primary grades. In R. Lehrer & D. Chazan(Eds.), *Designing learning environments for developing understanding of geometry and space* (pp. 169-200). Mahwah, NJ: Lawrence Erlbaum Associates.

SERIES EDITOR

Along with Punya Mishra, I edited an ongoing series of articles “From Research to Practice”, *Education Matters*, a magazine published by Educational Technology & Management Academy a non-profit organization based in New Delhi, dedicated to pioneering innovations through research and development.

- Sloan, C. (2013).** From research to practice: Developing better writers. *Education Matters*, 1(3), 11-12. (Series edited by P. Mishra & M.J. Koehler)
- Bedell, K. (2013).** From research to practice: Student engagement. *Education Matters*, 1(2), 8-11. (Series edited by P. Mishra & M.J. Koehler)
- Dodge, A. (2013).** From research to practice: Understanding self-regulation. *Education Matters*, 1(1), 4-6. (Series edited by P. Mishra & M.J. Koehler)

GUEST EDITOR AND EDITORIALS

- Petko, D., Mishra, P., & Koehler, M.J. (Eds.) (2025).** Placing TPACK in context: Looking at the big picture. *Computers and Education Open*. <https://www.sciencedirect.com/special-issue/10DN06D8QH0>.
- Greenhow, C., Graham, C. R., & Koehler, M. J. (Eds.) (2022).** Diverse Lenses on Improving Online Learning Theory, Research, and Practice. *Educational Psychologist*, 57(3). [Guest Editor for Special Issue]
- Bull, G., Park, J., Searson, M., Thompson, A., Mishra, P., Koehler, M. J., and Knezek, G. (2007).** Editorial: Developing technology policies for effective classroom practice. *Contemporary Issues in Technology and Teacher Education [Online serial]*, 7(3).
- Fitzer, K. M., Freidhoff, J. R., Fritzen, A., Heintz, A., Koehler, J., Mishra, P., Ratcliffe, J., Zhang, T., Zheng, J., & Zhou, W. (2007).** Guest editorial: More questions than answers: Responding to the reading and mathematics software effectiveness study. *Contemporary Issues in Technology and Teacher Education [Online serial]*, 7(2).

INVITED PRESENTATIONS & MEDIA APPEARANCES

- Green, J. (Host). (2022, July 28).** Dr. Christine Greenhow, Dr. Charles Graham, & Dr. Matthew J. Koehler [Audio podcast episode]. In *Emerging Research in Educational Psychology: APA Division 15*. <https://podcasts.apple.com/us/podcast/dr-christine-greenhow-dr-charles-r-graham-dr-matthew/id1429028409?i=1000571460281>

- Mishra, P., & Koehler, M.J. (2014, November).** *Teachers as designers of technology, pedagogy, and content (tpack)*. Invited webinar presentation to edweb.net and commonSense education. November, 2015.
- Mishra, P., & Koehler, M.J. (2012, December).** *TPACK: Past, present, and future*. Invited presentation to TPACK-Masterclass. University of Twente, Netherlands.
- Koehler, M.J., & Mishra, P. (2012, March).** *TTF to the future!*. Keynote address at the 2012 Teaching Teachers for the Future Conference. Sydney, Australia.
- Mishra, P., & Koehler, M.J. (2012, March).** *All TPACK'd and ready to go!*. Keynote address at the 2012 Teaching Teachers for the Future Conference. Sydney, Australia.
- Koehler, M.J., & Mishra, P. (2011, October).** *TPACK and beyond* Invited address at the MarchET conference. Eindhoven, Netherlands. October 3, 2011.
- Koehler, M.J., Mishra, P., Deschryver, M., Dore, A., Fedore, M.C., Francis, A., Heintz, A., Isaac, F., & Shin, T.S. (2009, January).** *Reflections on teaching, reflections on learning*. Presentation in the Online Teaching and Learning Colloquia, College of Education, Michigan State University. January 22, 2009.
- Koehler, M.J., & Mishra, P. (2009, Jan).** *Educational Technology & Teacher Education, the TPACK framework*. Department of Curriculum Design & Educational Innovation, University of Twente.
- Mishra, P., & Koehler, M.J. (2008, Dec).** *Technology integration: Online teaching and learning*. Invited presentation to the Michigan State University Faculty Seminars in Instructional Technology. Michigan State University. December, 2008.
- Mishra, P., & Koehler, M.J. (2008, Nov).** *Technology integration in teaching: The TPACK framework*. Webinar presented to the International Society for Technology in Education (ISTE), November 20, 2008.
- Mishra, P., & Koehler, M.J. (2008, Aug).** *Education technology and teacher education, the TPACK framework*. Keynote Address at the Symposium on Education & Technology in Schools: Converging for Innovation. Bangalore, India, August 20-22.
- Koehler, M.J., & Mishra, P. (2008, May).** *The TPACK framework and teacher education*. Invited presentation given to Chiayi University, Taiwan.
- Mishra, P., & Koehler, M.J. (2008, May).** *Technology integration in higher education*. Invited presentation to the Center for Instructional Technology & Multimedia, University Sains Malaysia, Penang, Malaysia.
- Koehler, M.J., & Mishra, P. (2008, May).** *Technology integration in teaching, understanding the TPACK framework*. Invited presentation to Chung Cheng University, Taiwan.
- Koehler, M.J., & Mishra, P. (2008, June).** *What do teachers need to know, introducing the TPACK framework*. Invited presentation to National Sun Yat-Sen University, Taiwan.
- Mishra, P., & Koehler, M.J. (2008, June).** *Creativity in Technology Integration and the TPACK framework*. Invited presentation to Faculty of Education, University of Hong Kong, Hong Kong.
- Koehler, M.J., & Mishra, P. (2008, May).** *What do teachers need to know to integrate technology in their teaching?* Introducing TPACK, Technological Pedagogical Content Knowledge. Plenary Address at the Annual Meeting of Global Chinese Conference on Computers in Education (GCCCE), East Lansing, MI, May 5-8.
- Mishra, P., & Koehler, M.J. (2008, March).** *Thinking creatively: Teachers as designers of technology, pedagogy and content (tpack)*. Keynote address at the 2008 Annual Meeting of the Society for Information Technology and Teacher Education (SITE), Las Vegas, NV, March 3-7.
- Mishra, P., & Koehler, M.J. (2008, March).** *Technology Integration: Challenges and Opportunities*. Invited Address to the 2008 Colloquium on the Changing Professoriate. March 19, 2008. East Lansing, MI.

- Mishra, P. & Koehler, M.J., (2007, March).** *Technological Pedagogical Content Knowledge (TPCK): Confronting the wicked problems of teaching with technology.* Invited session at the 2007 Annual Meeting of the Society for Information Technology and Teacher Education (SITE), San Antonio, TX.
- Harris, J., Koehler, M.J., Mishra, P., & Thompson, A. (2007, March).** *Future directions for TPCK research and development.* Invited panel at the 2007 Annual Meeting of the Society for Information Technology and Teacher Education (SITE), San Antonio, TX.
- Koehler, M.J., & Mishra, P. (2007, February).** *Introducing Technological Pedagogical Content Knowledge (TPCK).* Invited Address to the 2007 Annual Meeting of the American Association of Colleges for Teacher Education (AACTE), New York.
- Koehler, M.J. Mishra, P., Hershey, K., & Peruski, L. (2002, Feb).** *With a little help from your students: A new model for faculty development and online course design.* Presentation to the Instructional Technology Discussion Series. MSU College of Education.
- Mishra, P., Zhao, Y., Banghart, R., & Koehler, M. (2002).** *Communities of designers: A new model for faculty development and technology integration.* Presentation to the Consortium for Outstanding Achievement in Teaching with Technology.
- Lehrer, R., Petrosino, A.J., Koehler, M. (1998, June).** *Hypermedia technologies for case-based teacher education.* Paper presented at the Technology and NCTM Standards 2000 conference, Arlington, VA.

(PEER REVIEWED) CONFERENCE PRESENTATIONS & PROCEEDINGS

* Conference proceedings

- *Mishra, P., Phillips, M., Baran, E., Koehler, M., Harris, J. & Williams, M. (2024).** The Past, Present, and Most importantly the Future of TPACK. In J. Cohen & G. Solano (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2443-2448). Las Vegas, Nevada, United States: Association for the Advancement of Computing in Education.
- *Greenhow, C., Koehler, M., Shea, P., Archambault, L., Leary, H., Hickey, D., & Means, B. (2023).** Diverse Perspectives on Improving Contemporary Online Learning Theory, Research and Practice. In *Proceedings of the Society for Information Technology & Teacher Education International Conference* (pp. 1842-1846). Association for the Advancement of Computing in Education (AACE).
- Rosenberg, J. M., Reid, J., Dyer, E., Koehler, M. J., Fischer, C., & McKenna, T. J. (2020, April).** *A new context for professional networks: Understanding the social structure of #NGSSchat through social network analysis.* Symposium conducted at the American Educational Research Association Annual Meeting, San Francisco, CA. (Conference canceled)
- *Shelton, C., Koehler, M., Carpenter, J. & Greenhalgh, S. (2020).** Taking Stock of TeachersPayTeachers.com: Analyzing Four Million Classroom Resources. In D. Schmidt-Crawford (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1477-1482). Online: Association for the Advancement of Computing in Education (AACE).
- Rosenberg, J. M., Reid, J., Koehler, M. J., Fischer, C., & McKenna, T. J. (2019, January).** *The roles of the Twitter hashtag #NGSSchat in the context of science education reform efforts.* Paper presented at the Association for Science Teacher Education International Meeting, Savannah, GA. (Nb. This paper was nominated for the ASTE John C. Park National Technology Leadership Institute Fellowship)
- Greenhalgh, S. P., Huang, K., & Rosenberg, J. M. (2019, October).** *Understanding gaming communities and exploring learning opportunities: A computational grounded theory approach.* Paper presented at the meeting of the Association for Educational Communications and Technology International Convention, Las Vegas, NV.

- Greenhalgh, S. P., Koehler, M. J., & Staudt Willet, K. B. (2019, March).** *Every nation, kindred, tongue and 'tweeple': International use of the #ldsconf Twitter hashtag.* Paper presented at the Decentered Mormonism: Assessing 180 Years of International Expansion conference, Bordeaux, France.
- Greenhalgh, S. P., Staudt Willet, K. B., & Koehler, M. J. (2019, October).** *Twitter hashtags and religious learning: Mormon identity and participatory practice in #ldsconf.* Paper presented at the meeting of the Association for Educational Communications and Technology International Convention, Las Vegas, NV.
- *Moudgalya, S. K., Rich, K. M., Yadav, A., & Koehler, M. J. (2019).** Computer Science Educators Stack Exchange: Perceptions of Equity and Gender Diversity in Computer Science. In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education* (pp. 1197-1203). ACM. doi: 10.1145/3287324.3287365
- *Carpenter, J., Koehler, M., Willet, K. B. S., & Greenhalgh, S. P. (2019).** Spam, Spam, Spam, Spam: Methodological Considerations and Challenges for Studying Educators' Twitter Use. In *Society for Information Technology & Teacher Education International Conference* (pp. 2702-2711). Association for the Advancement of Computing in Education (AACE).
- *Liu, H., Koehler, M. J., & Wang, L. (2019).** Examining the Alignment of Foreign Language Teachers' Technology Use Intention and Actual Usage. In *Society for Information Technology & Teacher Education International Conference* (pp. 1684-1689). Association for the Advancement of Computing in Education (AACE).
- *Saubern, R., Urbach, D., Koehler, M., & Phillips, M. (2019).** A construct map for TPACK: developing an empirically derived description of increasing TPACK proficiency. In *Society for Information Technology & Teacher Education International Conference* (pp. 2508-2516). Association for the Advancement of Computing in Education (AACE).
- *Koehler, M., & Lachney, M. (2019, March).** Crowdfunding Education with DonorsChoose. org: All Things Equal? In *Society for Information Technology & Teacher Education International Conference* (pp. 426-433). Association for the Advancement of Computing in Education (AACE).
- Reid, J. Rosenberg, J. M., Koehler, M. J., Fischer, C., & McKenna, T. J. (2019, April).** An exploration of #NGSSchat through social network analysis. Paper presented at the 92nd annual meeting of the National Association for Research in Science Teaching, Baltimore, MD..
- Staudt Willet, K. B., Greenhalgh, S. P., Rosenberg, J. M., & Koehler, M. J. (2018, October).** *Won't you be my neighbor? How education stakeholders use hyperlinks to build information neighborhoods on Twitter.* Paper presented at the meeting of the Association for Educational Communications and Technology International Convention, Kansas City, MO.
- *Haixia, L., Koehler, M. & Wang, L. (2018).** The impact of teachers' beliefs on their different uses of technology. In E. Langran & J. Borup (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1468-1477). Washington, D.C., United States: Association for the Advancement of Computing in Education (AACE).
- *Koehler, M. & Rosenberg, J. (2018).** What factors matter for engaging others in an educational conversation on twitter?. In E. Langran & J. Borup (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2285-2291). Washington, D.C., United States: Association for the Advancement of Computing in Education (AACE).
- *Staudt Willet, B., Moudgalya, S., Boltz, L., Greenhalgh, S. & Koehler, M. (2018).** Back to the gaming board: Understanding games and education through board game reviews. In E. Langran & J. Borup (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 495-503). Washington, D.C., United States: Association for the Advancement of Computing in Education (AACE).

Greenhow, C. M., Brandon, D. L., Greenhalgh, S. P., Koehler, M. J., Staudt Willet, K. B., & Li, J. (2018, April). *Tweeting toward the PhD: Exploring new scholars' practices with social media.* Paper presented at the American Educational Research Association Annual Meeting 2018, New York, NY.

Greenhalgh, S. P., Staudt Willet, K. B., Rosenberg, J. M., Akcaoglu, M., & Koehler, M. J. (2018, April). *Timing is everything: Comparing synchronous and asynchronous modes of Twitter for teacher professional learning.* Paper presented at the American Educational Research Association Annual Meeting 2018, New York, NY.

Greenhalgh, S. P., Staudt Willet, K. B., Rosenberg, J. M., & Koehler, M. J. (2017, November). *No accounting for theory? The case for an affinity space approach to educational hashtag research.* Paper presented at the Association for Educational Communications and Technology International Convention 2017, Jacksonville, FL.

Greenhalgh, S. P., Rosenberg, J. M., & Koehler, M. J. (2017, November). *Hide and go tweet: Comparing methods for locating educational hashtag participants.* Paper presented at the meeting of the Association for Educational Communications and Technology International Convention, Jacksonville, FL.

***Phillips, M., Koehler, M., Rosenberg, J., & Zunica, B. (2017, March).** Unpacking TPACK: Reconsidering knowledge and context in teacher practice. In the *Proceedings of the Society for Information Technology & Teacher Education International Conference* (pp. 2422-2429). Association for the Advancement of Computing in Education (AACE).

***Staudt Willet, K. B., Koehler, M. J., & Greenhalgh, S. P. (2017, March).** A tweet by any other frame: Three approaches to studying educator interactions on Twitter. In the *Proceedings of the Society for Information Technology & Teacher Education International Conference* (pp. 1823-1830). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

***Rosenberg, J., Akcaoglu, M., Willet, K. B. S., Greenhalgh, S., & Koehler, M. (2017, March).** A tale of two Twitters: Synchronous and asynchronous use of the same hashtag. In the *Proceedings of the Society for Information Technology & Teacher Education International Conference* (pp. 283-286). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

***Greenhalgh, S. P., Rosenberg, J. M., & Koehler, M. J. (2017, March).** Avoiding madness in our methods: Considerations for Twitter research in teacher education. In *Proceedings of the Society for Information Technology & Teacher Education International Conference* (pp. 1558-1561). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

***Greenhalgh, S.P., & Koehler, M.J. (2017). Greenhalgh, S. P., & Koehler, M. J. (2017, March).** Tweeting in the time of terrorism: Who participates in a french hashtag-based affinity space, where, and how? In the *Proceedings of the Society for Information Technology & Teacher Education International Conference* (pp. 614-619). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

***Kessler, A., Phillips, M., Koehler, M., Mishra, P., Rosenberg, J., Schmidt-Crawford, D., ... & Foster, A. (2017, March).** The Technological Pedagogical Content Knowledge (TPACK) framework: Lineages of the first ten years of research. In the *Proceedings of the Society for Information Technology & Teacher Education International Conference* (pp. 2376-2380). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Greenhalgh, S. P., Rosenberg, J. M., & Koehler, M. J. (2017, May). Combining data sets and methods to explore equity in teacher professional development. In D. G. Krutka (Chair), *Data, Big and Small.* Symposium conducted at the meeting of the American Educational Research Association, San Antonio, TX.

Greenhalgh, S. P., Rosenberg, J. M., & Koehler, M. J. (April, 2016). *Combining datasets and methods to explore equity in teacher professional development.* Paper presented at the Annual Meeting of the American Educational Research Association, San Antonio, TX.

Nyland, R., Greenhalgh, S. P., Rosenberg, J. M., Koehler, M. J., Veletsianos, G., & Kimmons, R. (2016, October). *Public data mining methods, ethics, & legalities.* Panel presented at the Association for Educational Communications and Technology International Convention 2016, Las Vegas, NV.

Greenhalgh, S. P., & Koehler, M. J. (2016, October). *Teachers, Twitter, and terrorism: Combining digital research methods to study online educational conversations in France.* Paper presented at the Association for Educational Communications and Technology International Convention 2016, Las Vegas, NV.

***Rosenberg, J., Koehler, M., Akcaoglu, M., Greenhalgh, S. & Hamilton, E. (2016).** State Educational Twitter Hashtags: An Introduction and Research Agenda. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 355-360). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

***Keenan, S., Rosenberg, J., Greenhalgh, S. & Koehler, M. (2016).** Examining Teachers' Technology Use Through Digital Portfolios. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 1084-1091). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

***Koehler, M.J., Greenhalgh, S.P. & Boltz, L.O. (2016).** Here We Are, Now Entertain Us! A Comparison of Educational and Non-Educational Board Games. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 567-572). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

***Greenhalgh, S.P., Koehler, M.J. & Boltz, L.O. (2016).** What Features We Like When We Like Educational Games. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 554-561). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Herring, M., Koehler, M.J., Mishra, P., et al (2016, March). Technological pedagogical content knowledge: Looking forward. Symposium presented at the 2016 Annual Meeting of the Society for Information Technology and Teacher Education. Savannah, Georgia.

***Phillips, M., Koehler, M. & Rosenberg, J. (2016).** Looking outside the circles: Considering the contexts influencing TPACK development and enactment. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 3029-3036). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

***Arnold, B., Koehler, M. & Greenhalgh, S. (2016).** Design Principles for Creating and Maintaining Immersive Experiences in Educational Games. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 502-508). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Rosenberg, J. M., Ackcaoglu, M., Hamilton, E., Greenhalgh, S. P., & Koehler, M. J. (2015, November). *Tweeting U.S.A.: An examination of State Educational Twitter Hashtags (SETHs).* Paper presented at the 2105 Annual Meeting of the Association for Educational Communications and Technology (AECT) Conference. Indianapolis, IN.

Greenhalgh, S. P., Rosenberg, J. M., Keenan, S., & Koehler, M. J. (2015, November). *An investigation of the use of digital portfolios for understanding educators' technology knowledge.* Paper presented at the 2105 Annual Meeting of the Association for Educational Communications and Technology (AECT) Conference. Indianapolis, IN.

Fisser, P., Rosenberg, J., Teske, J., Koehler, M.J., et al. (2015, March). *Technological pedagogical content knowledge (tpack): Revision and rethinking*. Symposium presented at the 2015 Annual Meeting of the Society for Information Technology & Teacher Education International Conference. Las Vegas, NV.

***Koehler, M., Greenhalgh, S. & Zellner, A. (2015).** Potential applications of sentiment analysis in educational research and practice – Is SITE the friendliest conference? In *Proceedings of Society for Information Technology & Teacher Education International Conference 2015* (pp. 1259-1265). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

***Rosenberg, J., Greenhalgh, S. & Koehler, M. (2015).** A performance assessment of teachers' TPACK using artifacts from digital portfolios. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2015* (pp. 3069-3076). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

***Rosenberg, J. & Koehler, M.J. (2014).** Context and Technological Pedagogical Content Knowledge: A Content Analysis. In M. Searson & M. Ochoa (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2014* (pp. 2626-2631). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Fisser, P., Ervin, L., Voogt, J., & Koehler, M.J. (2014, March). *Measuring tpack ... yes! But how? A working session*. Roundtable discussion at the Society for Information Technology & Teacher Education International Conference 2014. Jacksonville, FL.

***Greenhalgh, S.P., Rosenberg, J.M., Zellner, A. & Koehler, M.J. (2014).** Zen and the art of portfolio maintenance: Best practices in course design for supporting long-lasting portfolios. In M. Searson & M. Ochoa (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2014* (pp. 1755-1761). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Koehler, M.J., Rosenberg, J., Greenhalgh, S., Zellner, A., & Mishra, P. (2014, March). *Can portfolio-based assessments demonstrate teachers' TPACK?* Part of the Symposium: Artifacts demonstrating teachers' technology integration competencies. Presented at the Society for Information Technology & Teacher Education International Conference 2014. Jacksonville, FL.

Mishra, P., Henriksen, D., Koehler, M., Spector, M., Zellner, A., Tyler-Wood, Lin, L., Jones, G., Dickson, R., & Dickson, W.P. (2013, March). The Hitchhiker's Guide to Hybrid and Online Doctoral Programs. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2013* (pp. 4422-4426). Chesapeake, VA: AACE.

Koehler, M.J., Mishra, P., & Shin, T.S. (2012, April). *How do we measure technological pedagogical content knowledge? Let me count the ways*. Paper presented at the 2012 Annual American Educational Research Association (AERA) Meeting. Vancouver, WA.

***Kereluik, K., Mishra, P., Hagerman, M., DeSchryver, M., Wolf, L., Fisser, P., Shin, T., Terry, L. & Koehler, M. (2012).** What would John Dewey Do: Programmatic design for developing TPACK for 21st Century Learning. In P. Resta (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2012* (pp. 4724-4728). Chesapeake, VA: AACE.

Shin, T. S., Koehler, M. J., & Mishra, P. (2011, April). *A critical review of technological pedagogical content knowledge (TPACK) assessments*. Paper presented at the 2011 Annual Meeting of the American Educational Research Association (AERA), New Orleans, LA, April 8-12.

***Zellner, A., Sloan, C. & Koehler, M. (2011).** The Educational Affordances of the Flash Mob: From Mobs to Smart Mobs. In M. Koehler & P. Mishra (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2011* (pp. 3042-3047). Chesapeake, VA: AACE.

- Shin, T. S., Mishra, P., & Koehler, M, J. (2011, March).** *Assessing TPACK, a review of the literature with a special emphasis on the issues of reliability and validity.* Paper presented at 2011 Annual Meeting of the Society for Information Technology & Teacher Education International (SITE), Nashville, TN, March 7-11.
- *Voogt, J., Shin, T., Mishra, P., Koehler, M., Schmidt, D., Baran, E., Thompson, A., Wang, W., Alayyar, G., Fisser, P., Agyei, D., Ormel, B., Velthuis, C., Tondeur, J. & Gibson, D. (2011).** Teachers' assessment of TPACK: Where are we and what is needed?. In M. Koehler & P. Mishra (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2011* (pp. 4422-4426). Chesapeake, VA: AACE.
- Mishra, P., Koehler, M.J., Harris, J., & Bull, G. (2010, June).** *Considering the "C" in TPACK : Curriculum-based technology integration.* Panel discussion at 2010 Annual Meeting of the International Society for Technology in Education, Denver, Colorado, June 27-30.
- Shin, T. S., Koehler, M. J., Lundeberg, M. A., Zhang, M., Eberhardt, J., Zhang, T., & Paik, S. (2010, April).** *The impact of problem-based learning professional development on science teachers' self-efficacy and their teaching practices.* Paper presented at the 2010 Annual American Educational Research Association (AERA) Meeting, Denver, Colorado, April 30 – May 4..
- Schmidt, D., Baran, E., Thompson, A., Koehler, M.J., Mishra, P., & Shin, T. (2010, April).** *The continuing development, validation, and implementation of a TPACK assessment instrument for preservice teachers..* Paper presented at the 2010 Annual American Educational Research Association (AERA) Meeting, Denver, Colorado, April 30 – May 4..
- Zhang, M., Koehler, M.J., Lundeberg, M.A., Eberhardt, J., & Parker, J. (2010, April).** *Understanding science teachers' needs for professional development.* Poster presented at the 2010 Annual American Educational Research Association (AERA) Meeting, Denver, Colorado, April 30 – May 4.
- Foster, A.N., Koehler, M. J. & Mishra, P. (2010, April).** *Learning in games: Constructing, valuing, and transferring disciplinary knowledge and skills.* Paper presented at the 2010 Annual American Educational Research Association (AERA) Meeting, Denver, Colorado, April 30 – May 4.
- Mishra, P., Koehler, M. J., Shin, T. S., Graves-Wolf, L., & DeSchryver, M. (2010, March).** *Developing TPACK by design.* Presentation as part of the symposium, *Strategies for teacher professional development on TPACK.* Presented at the 2010 International Conference of the Society for the Information and Technology & Teacher Education. March 29 – April 2, San Diego, CA.
- Schmidt, D., Baram, E., Thompson, A., Mishra, P., Koehler, M. J., & Shin, T. S. (2010, March).** *The development of an instrument to assess teacher development of TPACK.* Presentation as part of the symposium, *Strategies for teacher professional development on TPACK.* Presented at the 2010 International Conference of the Society for the Information and Technology & Teacher Education. March 29 – April 2, San Diego, CA.
- *Voogt, J., Thompson, A., Mishra, P., Fisser, P., Allayar, G., Agyei, D., Koehler, M., et al. (2010).** *Strategies for teacher professional development on TPACK, Part 2.* *Proceedings of Society for Information Technology Teacher Education International Conference 2010* (pp. 3940-3943). Chesapeake, VA: AACE.
- *Voogt, J., Thompson, A., Mishra, P., Fisser, P., Allayar, G., Agyei, D., Koehler, M., et al. (2010).** *Strategies for teacher professional development on TPACK, Part 1.* *Proceedings of Society for Information Technology Teacher Education International Conference 2010.* Chesapeake, VA: AACE.
- *Foster, A., Mishra, P. & Koehler, M. (2010).** *The process of learning in a simulation strategy game: Disciplinary knowledge construction.* In D. Gibson & B. Dodge (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2010* (pp. 1903-1910). Chesapeake, VA: AACE.

- *Kereluik, K., Mishra, P. & Koehler, M. (2010).** Reconsidering the T and C in TPACK: Repurposing technologies for interdisciplinary knowledge. In D. Gibson & B. Dodge (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2010* (pp. 3892-3899). Chesapeake, VA: AACE.
- *Malik, Q., Koehler, M.J., Mishra, P., Buch, N., Shanblatt, M., & Pierce, S.J. (2009).** Participation in a freshman design sequence and its influence on students' attitudes towards engineering. *Proceedings of 39th Annual ASEE/IEEE Frontiers in Education Conference, San Antonio, TX, Oct 2009.*
- *Malik, Q., Koehler, M.J., Mishra, P., Buch, N., & Shanblatt, M. (2009).** Understanding freshman perceptions about engineering. *Proceedings of 2009 ASEE North Central Section Conference,* Grand Rapids, MI, Apr 2009.
- Mishra, P., Koehler, M. J., Shin, T. S., Fedor, M. C., Francis, A. P., DeSchryver, M., & Heintz, A. E. (2009).** *Reflections on Teaching "Reflections on Learning."* Paper presented at at the Conference on the Teaching of Educational Psychology, Toronto, Canada.
- Karunaratne, S., Parker, J., Lundeberg, M., Koehler, M.J., & Eberhardt, J. (2009, April).** *Taking a step towards professional development through assessments in a Problem-Based Learning (PBL) project.* Paper to be presented at the National Association of Research in Science Teaching Annual Conference, April 17-20, 2009, Garden Grove, CA.
- Schmidt, D., Baran, E., Thompson, A., Koehler, M.J., Shin, T, & Mishra, P. (2009, April).** *Technological Pedagogical Content Knowledge (TPACK): The Development and Validation of an Assessment Instrument for Preservice Teachers.* Paper presented at the 2009 Annual Meeting of the American Educational Research Association. April 13-17, San Diego, California.
- Zhang, M., Eberhardt, J., Lundeberg, M., Koehler, M. J., & Parker, J., (2009, April).** *See, try, research and reflect: Problem-Based Learning as a model for collaborative teacher research.* Paper presented at the annual meeting of American Educational Research Association (AERA), San Diego, April 13-17, 2009.
- Zhang, M., Lundeberg, M., McConnell, T. J., Koehler, M. J., & Eberhardt, J., (2009, April).** *Strategic facilitation in problem-based professional development to promote science teachers' pedagogical learning.* Paper presented at the annual meeting of American Educational Research Association (AERA), San Diego, April 13-17, 2009.
- *Schmidt, D., Baran, E., Thompson, A., Koehler, M., Punya, M. & Shin, T. (2009).** Examining Preservice Teachers' Development of Technological Pedagogical Content Knowledge in an Introductory Instructional Technology Course. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2009* (pp. 4145-4151). Chesapeake, VA: AACE.
- *Shin, T., Koehler, M., Mishra, P., Schmidt, D., Baran, E. & Thompson, A. (2009).** Changing Technological Pedagogical Content Knowledge (TPACK) through Course Experiences. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2009* (pp. 4152-4159). Chesapeake, VA: AACE.
- *DeSchryver, M., Mishra, P., Koehler, M. & Francis, A. (2009).** **Moodle vs. Facebook:** Does using Facebook for Discussions in an online course enhance perceived social presence and student interaction?. In I. Gibson et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2009* (pp. 329-336). Chesapeake, VA: AACE.
- Karunaratne, S., Parker, J., Lundeberg, M., Koehler, M.J., & Eberhardt, J. (2009, March).** *Facilitation for professional development.* Paper presented at annual the international conference of the Comparative and International Education Society (CIES). March 22-26, 2009. Charleston, South Carolina.

Rosen, D., Mishra, P., & Koehler, M.J. (2008, Aug). *New literacies, teacher development and technological pedagogical content knowledge (tpack)*. Paper presented at the annual meeting of the Association for Teacher Educators (ATE), Washington, D.C., Aug 5, 2008.

McConnell, T. J., Zhang, T., Eberhardt, J., Koehler, M., Stanaway, J., Parker, J., & Lundeberg, M. (2008, March). *"I'm invested in the outcome": Professional development that matters in the eyes of teachers*. Paper presented at the National Association for Research in Science Teaching 2008 Annual International Conference, Baltimore, MD, April 2, 2008.

***Gao, F., Noh, J.M. & Koehler, M.J. (2008).** Comparing student interactions in Second Life and face-to-face role-playing activities. In K. McFerrin et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2008* (pp. 2033-2035). Chesapeake, VA: AACE.

Koehler, M.J., & Mishra, P. (2008, March). *Technological pedagogical context knowledge (tpck): Discussions with leaders in the field*. Roundtable discussion held at the Annual Meeting of the American Educational Research Association, New York, March 24-28.

Mishra, P., & Koehler, M.J. (2008, March). *Introducing technological pedagogical content knowledge*. Paper presented the Annual Meeting of the American Educational Research Association, New York, March 24-28.

Zhang, M., Lundeberg, M. A., McConnell, T. J., Koehler, M. J., & Eberhardt, J., (2008, March). *Conditions for collaborative knowledge construction of inservice science teachers in problem-based professional development*. Paper presented at the Annual Meeting of National Association for Research in Science Teaching, Baltimore, MD, March 30-July 2, 2008.

Zhang, M., McConnell, T. J., Lundeberg, M. A., Koehler, M. J., & Eberhardt, J., (2008, March). *Teachers' burning questions: Understanding challenges that science teachers face and problem-based learning as a framework to support teacher research*. Poster presented at the Annual Meeting of National Association for Research in Science Teaching, Baltimore, MD, March 30-July 2, 2008.

Lundeberg, M., Koehler, M., Zhang, M., McConnell, T. J., & Eberhardt, J. (2008, March). *"It's like a mirror in my face": Using video analysis in learning communities of science teachers to foster reflection on teaching dilemmas*. Paper presented as part of the Symposium "High Tech High Touch: Creating Discourse Communities Around Video Cases in Literacy, Science and Mathematics" (Chair Matthew J. Koehler) at the 2008 American Educational Research Association Annual Meeting, New York, NY, March 24-28.

Koehler, M.J. & Mishra, P. (2008, February). *Taking learning to a higher level: The TPACK framework*. Part of the Major Forum – "When Multiple Technologies Take Learning to a Higher Level: The Technological Pedagogical Content Knowledge (TPCK) Framework and Curricular Exemplars" Presented at the 2008 Annual the Annual Meeting of the American Association of Colleges for Teacher Education, New Orleans, Feb 7-10, 2008.

McConnell, T. J., Lundeberg, M. A., Koehler, M. J., Urban-Lurain, M., Zhang, T., Mikeska, J., Parker, J, Zhang, M, & Eberhardt, J. (2008, January). *Video-based teacher reflection – What is the real effect on reflections of inservice teachers?* Paper presented at the Association for Science Teacher Education 2008 International Conference, St. Louis, MO, January 12, 2008.

McConnell, T. J., Stanaway, J. C., Parker, J. M, Eberhardt, J., Lundeberg, M.A, & Koehler, M. J. (2008). *Influencing pedagogical content knowledge of inservice science teachers through problem-based learning*. Paper presented at the Association for Science Teacher Education 2008 International Conference, St. Louis, MO, January 11, 2008.

Zhang, T., McConnell, T. J., Lundeberg, M. A., Koehler, M. J., Stanaway, J., Zhang, M., Urban-Lurain, M., Eberhardt, J., & Parker, J. (2008, January). *If you build it, why will they come back? Motivation of*

teachers to re-enroll in a professional development project. Paper presented at the Association for Science Teacher Education 2008 International Conference, St. Louis, MO, January 10, 2008.

Weizman, A., Lundeberg, M. A., Koehler, M. J., & Eberhardt, J. (2007, August). *The influence of problem based learning professional development on science teachers' pedagogical content knowledge.* Paper presented at the Annual Meeting of the European Science Education Research Association, Malmo, Sweden.

***Lundeberg, M., Koehler, M., Eberhardt, J., Parker, J., Zhang, M., McConnell, T., & Weizman, A. (2007, June).** *Preparing science teachers using a problem-based learning framework.* Conference proceedings of the International Academic Conference of Preparing Quality Science Teachers for Elementary and Secondary Schools. National Science Council (Taiwan), May 31 June 2, 2007. Taipei, Taiwan.

Mikeska, J.N., Koehler, M.J., Weizman, A., & Lundeberg, M.A. (2007, April). *Designing teaching dilemmas for problem-based learning professional development* Roundtable discussion at the 2007 Annual Meeting of the American Educational Research Association, Chicago, IL.

Harris, J., Mishra, P., & Koehler, M.J., (2007, April). *Teachers' technological pedagogical content knowledge: curriculum-based technology integration reframed.* Paper presented at the 2007 Annual Meeting of the American Educational Research Association, Chicago, IL.

***Koehler, M.J., & Mishra, P. (2007).** Technological Pedagogical Content Knowledge (TPCK): Confronting the wicked problems of teaching with technology. In R. Carlsen, K. McFerrin, J. Price, R. Weber, & D.A. Willis (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2007* (pp. 2214-2226). Chesapeake, VA: AACE.

***Peruski, L., Mishra, P., Rosaen, C., & Koehler, M.J. (2007).** Boundary crossings: An activity theoretical analysis of technology diffusion in a teacher education program. In R. Carlsen, K. McFerrin, J. Price, R. Weber, & D.A. Willis (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2007* (pp. 1647-1653). Chesapeake, VA: AACE.

***Peruski, L., Mishra, P., & Koehler, M.J. (2007).** Developing technological pedagogical content knowledge (TPCK) through teaching online. In R. Carlsen, K. McFerrin, J. Price, R. Weber, & D.A. Willis (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2007* (pp. 2208-2213). Chesapeake, VA: AACE.

Hilden, K., Phillips, M. M., Lundeberg, M., & Koehler, M. J. (2006, November). Are a thousand words worth a picture? Protocol differences in evaluation and cognitive processing of video and text cases in science. Paper presented at the 2006 Annual Meeting of the National Reading Conference (NRC), Los Angeles, CA.

***Foster, A., Koehler, M.J., & Mishra, P. (2006).** Game-based learning of physics content: The effectiveness of a physics game for learning basic physics concepts. In *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2006* (pp. 2119-2125). Chesapeake, VA: AACE.

Weizman, A., Covitt, B.A., Koehler, M.J., Lundeberg, M.A., Jang, S., Oslund, J.A., Low, M.R., Eberhardt, J., & Urban-Lurain, M. (2006, April). *What do teachers learn from a problem-based learning approach to professional development in science education?* Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.

Oslund, J.A., Low, M., Mikeska, J.N., Weizman, A., Lundeberg, M., Koehler, M.J., & Eberhardt, J. (2006, April). *Creating problems for teachers: Research on constructing problem-based materials to enhance science content knowledge.* Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.

Oslund, J.A., Koehler, M.J., Lundeberg, M., Low, M., Parker, J., Eberhardt, J., Urban-Lurain, M., & Jang, S. (April, 2006). *Problem-based learning designed for science and mathematics professional*

development. Roundtable discussion at the 2006 Annual Meeting of the American Educational Research Association, San Francisco, CA.

Foster, A. N., Koehler, M. J., & Mishra, P. (2005, October). *Game based learning of physics content.* Poster presented at Future Play 2005: The International Academic Conference on the Future of Game Design and Technology, East Lansing, MI.

***Phillips, M. M., Koehler, M.J., Zhang, G., Yadav, A., & Rosaen, C. (2005).** Results of an experiment evaluating the use of video cases to help pre-service teachers become better teachers of literacy. In P. Kommers & G. Richards (Eds.), *Proceedings from the World Conference on Educational Multimedia, Hypermedia and Telecommunications 2005* (pp. 585-592). Chesapeake, VA : AACE.

***Dirkin, K ., Yadav, A., Koehler, M.J., Hilden, K., Phillips, M.M., & Lundeberg, M. (2005).** Is the movie better than the book? Differences in engagement and delayed recall of video and text cases in science. In *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2005* (pp. 4196-4201). Chesapeake, VA: AACE.

Koehler, M.J., Mishra, P., & Yadav, A. (2005, April). *The development of Technological Pedagogical Content Knowledge in a design seminar.* Paper presented at the Annual Meeting of the American Educational Research Association, Montreal, Canada.

Yadav, A., & Koehler, M.J. (2005, April). *An analysis of the interaction of preservice teachers' epistemological beliefs and video teaching cases.* Paper presented at the Annual Meeting of the American Educational Research Association, Montreal, Canada.

***Mishra, P., & Koehler, M.J. (2005).** Educational technology by design: Results from a survey assessing its effectiveness. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2005* (pp. 1511-1517). Chesapeake, VA: AACE.

***Yadav, A., & Koehler, M.J. (2005).** A qualitative study about the role of preservice teachers' beliefs in learning from literacy instruction video-cases. In C. Crawford et al. (Eds.) *Proceedings of Society for Information Technology and Teacher Education International Conference 2005* (pp. 3427-3432). Chesapeake, VA: AACE.

***Lima, M., Koehler, M.J., & Spiro, R.J. (2004).** Cognitive flexibility hypertexts and the development of creative and critical thinking in business education: The Panteon project. *Proceedings of XXVIII Encontro Anual ASSOCIAÇÃO NACIONAL DE PÓS-GRADUAÇÃO EM ADMINISTRAÇÃO.* Curitiba, Brazil. Anapad.

***Koehler, M.J., Mishra, P., Yahya, K., & Yadav, A. (2004).** Successful teaching with technology: The complex interplay of content, pedagogy, and technology. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2004* (pp. 2347-2354) Chesapeake, VA: AACE.

Phillips, M.M., & Koehler, M.J. (2004, April). *Towards an understanding of how media preferences affect what students learn.* Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.

Koehler, M.J., Mishra, P., & Yahya, K. (2004, April). *Content, pedagogy, and technology: Testing a model of technology integration.* Paper presented at the annual meeting of the American Educational Research Association, April 2004, San Diego, CA.

Rosaen, C. L., Johnson, M. K., Koehler, M.J. & Ruggerio, C. (2004, March). *Exploring IVAN: Interactive Video Access Neighborhood.* Poster presented at International Conference for the Society for Information Technology and Teacher Education, Atlanta, GA.

Wong, D., Mishra, P., Koehler, M.J., & Siebenthal, S. (2003, April). *Teacher as filmmaker: iVideos, technology education, and professional development.* Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.

- Lima, M., Koehler, M.J., & Spiro, R. (2002, August).** *Organizational learning with a multi-perspective hypertextual interface for knowledge management.* Paper presented at the 5th International Symposium on Knowledge Management, Brazil.
- Koehler, M.J. Mishra, P., Hershey, K., & Peruski, L. (2002, April).** *Learning through design: Faculty development and online course development.* Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- *Mishra, P., Koehler, M.J., Hershey, K., & Peruski, L. (2002).** With a little help from your students: A new model for faculty development and online course design. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2002* (pp. 688-692). Chesapeake, VA: AACE.
- *Mishra, P., Koehler, M.J., Hershey, K., & Peruski, L. (2001).** Learning through design: faculty development and online course development. *Proceedings from the Seventh Sloan-C International Conference on Online Learning: Emerging Standards of Excellence in Asynchronous Learning Networks.*, Orlando, FL.
- Koehler, M.J. (2001, April).** *Designing cases that help teachers learn about children's mathematical thinking.* Paper presented at the Annual Meeting of the American Educational Research Association, Seattle, WA.
- *MSU PT3 Team (2001).** Technology and Teacher Education: An Ecological Approach. *Proceedings of Society for Information Technology and Teacher Education International Conference 2001.* Charlottesville, VA: AACE.
- Urban-Lurain, M., Mishra, P., Koehler, M.J., & Banghart, R. (2001, April).** *Fluency with information technology (FITness): The computer science perspective.* Paper presented at the Annual Meeting of the American Educational Research Association, Seattle, WA.
- *Mishra, P., & Koehler, M. J. (2001).** Putting the Instructor in Charge: Component Architecture and the Design of a Course Web Site. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2001* (pp. 68-69). Chesapeake, VA: AACE.
- *Koehler, M.J., Petrosino, A.J., & Lehrer, R. (1999).** Elements of case design for hypermedia environments in teacher education. In B. Collins & R. Olliver (Eds.) *Proceedings from ED-Media 99, World Conference on Educational Multimedia, Hypermedia & Telecommunications.* (pp. 1414-1415). Charlottesville, VA: AACE.
- *Koehler, M.J., Petrosino, A.J., & Lehrer, R. (1998).** Designing cases for hypermedia environments in teacher education. In A. Bruckman, M. Guzdial, J. Kolodner, & A. Ram (Eds.), *Proceedings from the International Conference of the Learning Sciences, 1998* (pp. 324-325). Charlottesville, VA: AACE
- *Lehrer, R., Petrosino, A.J., Koehler, M. (1998, June).** Hypermedia technologies for case-based teacher education. *Proceedings from the Technology and NCTM Standards 2000 Conference.* Arlington, VA.
- Lu, Y., Koehler, M.J., Lehrer, R., & Tsai, W. (1997, October).** A framework for developing web-based educational applications: Using a relational database to connect the design of authoring and navigational tools. Paper presented at the World Conference on the World Wide Web, Internet, and Intranet, Toronto, Canada.
- *Koehler, M.J., & Lehrer, R. (1997).** Designing an effective hypermedia learning tool. *Proceedings from ED-Media 97, World Conference on Educational Multimedia, Hypermedia & Telecommunications.* Charlottesville, VA: AACE.
- Koehler, M.J., & Levin, J. R. (1996, April).** *A sharper analytical tool for the multiple-baseline design.* Paper presented at the annual meeting of the American Educational Research Association, New York, NY.

- Koehler, M.J. (2015).** The TPACK mood tracker. Available at: <http://www.matt-koehler.com/Sentiment/graph.php?days&tag=tpack> [Program to automatically collect, analyze tweets using the hashtag #tpack]
- Koehler, M.J. (2015).** The MAET mood tracker. Available at: <http://www.matt-koehler.com/Sentiment/graph.php?days&tag=maet> [Program to automatically collect, analyze tweets using the hashtag #maet]
- Koehler, M.J. (2014).** EPET Klout list. Available at: http://www.matt-koehler.com/influencer/EPET_Klout/display.php [Program to automatically collect, analyze, tweet, and display the online influence scores of members of the EPET Phd Program]
- Koehler, M.J. (2012).** *RegRand 2.0* [Analysis software to compute regulated randomization statistics described in Koehler & Levin (1998)].
- Koehler, M.J., & Dirkin, K. (2005).** Technology for authentic problem solving (TAPS) video browser.
- Koehler, M.J., Zhang, G., Yadav, A., Phillips, M.M., Diamond, K., Powell, D., & Robbins, C. (2005).** *Classroom Links to Early Literacy*.
- Rosaen, C., Koehler, M., Phillips, M., Pardo, L. Yadav, A., Johnson, M. (2005).** *Literacy Teaching and Learning: Kindergarten* [IVAN Multi-media software, developer: Charles Ruggiero]. East Lansing, MI: Michigan State University, College of Education.
- Rosaen, C., Koehler, M., Phillips, M., Pardo, L. Yadav, A., Johnson, M. (2005).** *Literacy Teaching and Learning: First Grade* [IVAN Multi-media software, developer: Charles Ruggiero]. East Lansing, MI: Michigan State University, College of Education.
- Rosaen, C., Koehler, M., Phillips, M., Pardo, L. Yadav, A., Johnson, M. (2005).** *Literacy Teaching and Learning: Second Grade* [IVAN Multi-media software, developer: Charles Ruggiero]. East Lansing, MI: Michigan State University, College of Education.
- Koehler, M.J. (2002).** *Modeling in Mathematics and Science: Growth and Diversity* [A website devoted to helping teachers develop modeling practices in primary grade science curriculum]. East Lansing, MI: Author.
- Koehler, M.J., & Mishra, P. (2002).** *Inverso* [Computer authored Haiku published in the Interactive Multimedia Electronic Journal of Computer-Enhanced Learning].
- Koehler, M.J. (1999).** *Understanding Measurement*. [Macintosh DVD Software]. Madison, WI: Author.
- Koehler, M.J. (1998).** *RegRand* [Analysis software to compute regulated randomization statistics described in Koehler & Levin (1998)]. Madison: WI. Author.
- Koehler, M.J., Lehrer, R., Carpenter, T., Fennema, E., & Empson, S. (1996).** *HyperCGI: Add & Subtract* [Macintosh CD-ROM Software]. Madison, WI: Authors.
- Koehler, M.J., Lehrer, R., Carpenter, T., Fennema, E., & Empson, S. (1996).** *HyperCGI: Multiplication & Division* [Macintosh CD-ROM Software]. Madison, WI: Authors.
- Koehler, M.J. (1993).** An ACT-R implementation of CHIPS [ACT-R computer program]. Madison, WI: Author.

OTHER PUBLICATIONS

- Koehler, M.J. (1999).** Designing case-based hypermedia tools to help teachers understand children's mathematical development. Unpublished doctoral dissertation, University of Wisconsin, Madison.