PUNYA MISHRA, Ph.D.

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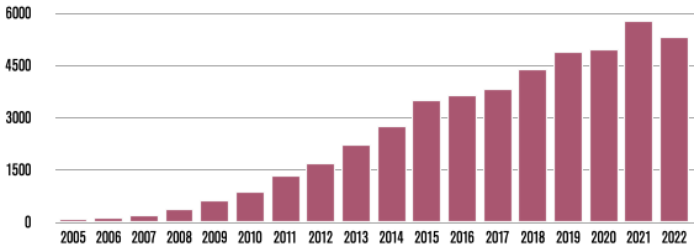
Dr. Punya Mishra is Associate Dean of *Scholarship & Innovation* and *Professor* in the *Division of Educational Leadership & Innovation* in the *Mary Lou Fulton Teachers College at Arizona State University*. He also has an affiliate faculty position in ASU's *Design School*. He is internationally recognized for his work in technology integration in teaching; the role of creativity and aesthetics in learning; and the application of collaborative, design-based approaches to educational innovation. He (with Dr. M. J. Koehler) developed the *Technological Pedagogical Content Knowledge (TPACK)* framework, which has been described as being "the most significant advancement in the area of technology integration in the past 25 years."

He has received $9.5 million in grants; published over 200 articles and edited 5 books. A *TED-Ed educator*, he is *ranked #77 among the top 200 university-based scholars who had the biggest influence on educational practice and policy* (2022 RHSU Edu-Scholar Public Influence Rankings), and is listed among the *top 2% of most widely cited scientists worldwide* (Stanford/Elsevier, 2021). In 2011 he was named as one of the *ten most influential people in educational technology* by the readers and editors of *Technology and Learning* journal. As per Google Scholar, Dr. Mishra has over 48-thousand citations of his research, with an *h-index* of 59 and an *i-10 index* of 159, overall.

Punya Mishra
Google Scholar

Cited by	All	Since 2018
Citations	48825	25983
h-index	59	44
i10-index	159	108



Google scholar citation information for Dr. Mishra

As *Associate Dean of Scholarship and Innovation* Dr. Mishra leads a range of initiatives that provides a future-forward, equity driven, approach to educational research and scholarship at the *Mary Lou Fulton Teachers College*. These include supporting faculty and doctoral students in enhancing their scholarship and research; expanding external grant activity; creating partnerships with units across and outside the university; developing strategies for public scholarship and more. In addition, Dr. Mishra leads a team of design strategists who work with school districts and other educational organizations to bring an intentional, contextually grounded, collaborative, design-based approach to educational innovation to meet the systemic challenges faced by schools. This has led, among other things, to a new school-model in a local school district (*The SPARK school)* as well as to a series of workshops with 21 vertical school/district teams from across the nation (and a few international schools) on reimagining school after COVID. His office also

supports a wide variety of efforts to expand the scholarly impact of faculty work, including but not limited to developing a new humanistic vision for technology in learning; designing new lab-spaces for exploration and discovery-based learning (the *IgnitED labs*); supporting scholarly journals published at the college; developing alternative ways of promoting scholarly work—such as the *Learning Futures* podcast and the *Learning Futures Science Fiction* series (in collaboration with *Slate Magazine*). At the university level he has led an intra-university team of leaders (*Peer Leadership Academy*) to reimagine educational innovation to address issues related to access and scale, and was selected to be part of the *Advanced Leadership Initiative* for future leaders at ASU. He has served as a faculty mentor undergraduate students and organizations including the *Unified Society of South Asians*. He also co-hosts the award-winning *Silver Lining for Learning* webinar, as well as the *Value Laden* and *Learning Futures* podcasts.

Prior to coming to ASU, Dr. Mishra was at *Michigan State University* where he directed the award-winning *Master of Arts in Educational Technology* program. In 2016 he received the *William J. Beal Outstanding Faculty Award* for his comprehensive and sustained record of scholarly excellence in research and creative activities, instruction and outreach. He co-led (with Dr. Gunnings-Moton and Dr. Wolf) of the *MSU-UrbanSTEM* project, working with STEM educators *Chicago Public Schools* over 4 years. He was part of the team that designed the hybrid-doctoral program in *Educational Psychology & Educational Technology*. He has served on the *Executive Council* of the *Society for Information Technology in Teacher Education*; and started and served as chair of the *Creativity* Special Interest Group at the same organization. He (with Dr. Matthew J. Koehler) co-chaired the SITE2011 conference and is former chair of the *Innovation & Technology Committee* of the *American Association of Colleges of Teacher Education (AACTE)*. He was a member of the School Board for the *Okemos Public School District*.

Dr. Mishra is an award-winning instructor who has taught courses at undergraduate, masters and doctoral levels in the areas of educational technology, educational psychology, inclusive design, and creativity. He has also taught courses and conducted workshops on creativity, innovation and design for the *MBA program at the Indian School of Business (Hyderabad)* as well as the *Executive MBA program* at the *Broad School of Business, MSU*. Dr. Mishra has received many accolades for his teaching, including a *Lilly Faculty Fellowship (2001),* the *MSU Teacher Scholar Award (2004),* the *College of Education's Teaching Excellence Award (2006),* and the *AT&T-MSU award for Instructional Technology* twice *(2008 & 2014)*.

Dr. Mishra has an undergraduate degree in *Electrical & Electronics Engineering* (from *Birla Institute of Technology & Science*, Pilani), Masters degrees in *Visual Communication* (from *Industrial Design Center*, *IIT Mumbai*), and *Mass Communications* (from *Miami University*, Oxford Ohio), and a Ph.D. in *Educational Psychology* (from the *University of Illinois at Urbana-Champaign*).

Dr. Mishra is a gifted, creative and engaging public speaker, having made multiple keynotes and invited presentations for associations and conferences nationally and internationally. He is also an accomplished visual artist and poet and his creative work has been featured in international design and puzzle magazines and websites. His work on mathematics and visual wordplay was the focus of an exhibition at the *MSU Museum* in 2015-16. You can find out more about him by going to http://punyamishra.com/

EDUCATION

1998: Ph.D. in Educational Psychology

University of Illinois at Urbana-Champaign

Dissertation topic: Learning complex concepts in chemistry with multiple representations: Theory based design and evaluation of a hypertext for the periodic system of elements.

Advisor: Dr. Rand J. Spiro

1992: Master of Arts in Mass Communication

Miami University, Oxford OH
Thesis: The development of a model for Human Computer Interaction
Advisor: Dr. Robert Vogel

1990: Master of Design: Visual Communication

Industrial Design Center, Indian Institute of Technology, Bombay
Projects: The Life & Death of Stars (educational video and print materials)
Perception and Illusion (educational video)
Electricity & Magnetism (educational software)

1988: Bachelor of Engineering: Electrical & Electronics Engineering

Birla Institute of Technology & Science, Pilani
Projects: Database development for Ministry of Human Resources
GeoPlot: Software for visualization of geographic data

PROFESSIONAL EXPERIENCE

Faculty

2016-	Associate Dean for Scholarship & Innovation Professor Division of Innovation and Leadership Mary Lou Fulton Teachers College, Arizona State University Affiliate faculty, Herberger Institute of Design & the Arts
2010-16	Professor, Technology & Education College of Education, Michigan State University
2005-10	Associate Professor, Technology & Education College of Education, Michigan State University
1998-05	Assistant Professor, Technology and Education College of Education, Michigan State University
1990-91	Instructor, Masters program in Visual Communications Industrial Design Center, Indian Institute of Technology, Bombay

Affiliations

2016-present	Affiliate faculty member with the Herberger Institute of Design & the Arts
2007-16	Core faculty member, Asian Studies Center, Michigan State University
2006-16	Affiliated faculty, Games for Entertainment and Learning (GEL) Lab College of Communication Arts & Sciences, MSU
2006- 07	Visiting Faculty, Indian Business School, Hyderabad

2004-06	Principal Investigator, Communication Technology Lab, College of Communication Arts and Sciences, MSU
1996-	Visiting Faculty, Visual Communications Program Industrial Design Center, Indian Institute of Technology, Bombay
2002-	Visiting Faculty, Educational Technology Department SNDT University, Mumbai ,India

Assistantships

1992-95	Research assistant, NSF funded HyperBio Project University of Illinois at Urbana-Champaign
1996-98	Research Assistant, National Center for Supercomputing Applications University of Illinois at Urbana-Champaign
1996-97	Teaching Assistant, College of Education University of Illinois at Urbana-Champaign
1995-98	Research Assistant, Critical Thinking Project (with Dr. Ennis) University of Illinois at Urbana-Champaign
1990-92	Research Assistant, College of Communication Miami University
1988-90	Teaching Assistant, Industrial Design Center Indian Institute of Technology, Mumbai

FUNDED GRANTS

2021	BioSense Network: A zero-cost online biotechnology program for middle and high schools. Funded by the *National Defense Education Program*. PI Abhishek Shingoroy & Punya Mishra, $1.4 M
2021	Arizona Digital Readiness Project with *Arizona Department of Education, $73K.*
2021	*Project Springboard: Reimagining School Post COVID.* Workshop series with 21 schools and districts across US and the globe. In collaboration with *What School Could Be*. $100,000
2020	*Data Literacy for Practitioners: A custom program for Pratham/ASER.* Pratham USA, $50,000.
2020	*The Substance of STEM Education: Addressing the gap between Foundational, Meta, and Humanistic Knowledge*. National Science Foundation. PI Ariel Anbar & Punya Mishra $98,874.
2018	Community Design Lab partnership with Avondale School District. *Burton Family Foundation.* $50,000
2017-20	Design Labs for Systemic Educational Innovation. *Charlotte Thomas Innovation Fund*, $200,000
2014-16	Negotiated donation of 75 Surface Pro II and III tablets with keyboards and Office 365 for the MSU-UrbanSTEM project *Microsoft Corporation* (in kind donation equivalent to $105,000).

2013-2017	The Wipro-MSU STEM Leadership Fellowship Program. *Wipro Ltd*. PI Punya Mishra & Sonya Gunnings-Moton. $2.8M.
2010-16	Supporting teacher preparation and university development for the 21st Century: A collaborative partnership between Azim Premji Foundation and Michigan State University. *Azim Premji Foundation*. PI Punya Mishra. $450,000.
2010-11	The creativity initiative at Michigan State University. *Office of the Vice President of Research, Michigan State University*. PI Mark Sullivan, Dean Rehberger, Punya Mishra, and others. $80,000.
2009-10	Developing better engineering educators. Asian Studies Center, *Strategic Partnership Grant Program*. PI's Neeraj Buch & Punya Mishra. $6,750
2009	Exploiting serious games to build system thinking skills for achieving globalization literacy. ISE Global Competency Initiative, *Office of the Provost, Michigan State University.* With Co-PI's Ron Rosenberg & Brian Winn $11,000.
2008-09	Research and evaluation of the design-based engineering curriculum. Co-PI's Neeraj Buch & Matthew J. Koehler. *Intramural Research Grant Program,* $60,000.
2004-06	Reaching and educating at risk children in India. In collaboration with the American Institutes of Research, Juarez Associates and World Learning. *U.S. Agency for International Development*. $500,000
2003-06	Does Involving Girls as Designers Result in Girl-Friendly Science Education Software? Comparing processes and outcomes of same-sex 5th and 8th grade girl and boy design teams. *National Science Foundation*. With Co-PIs Rhonda Egidio and Carrie Heeter. $640,000.
2003-06	Teachers as designers: A problem-based approach to preparing teachers. *US Department of Education*. PI with Yong Zhao, Matthew Koehler & Cheryl Rosean. $1,500,000.
2003	Children's understanding of and interactions with anthropomorphic robotic toys. *Institute for Teaching and Learning In-house grant program*. With Dr. Altermatt, and Dr. Brophy-Herb. $3,840.
2001-03	Perceived intelligence and the design of computer interfaces. *Intramural Research Grant Program*, $50,000.
2000-03	Communities of designers: A comprehensive project-based approach to preparing tomorrow's teachers to use technology. *US Department of Education,* PI with Yong Zhao, $1,419,552.
2000-03	Bringing Attribution Theory to Educational Technology: Developing a new research agenda. *Joe L. Byers & Lucy Bates-Byers Endowment*. $60,000
2000-01	The Psycho-Social aspects of learning with interactive media: *Dean's Technology Fund*. $17,000
1999	Old Brain New Media: Evolutionary Psychology meets Educational Technology. *College Seed grant*. $1,200
1998	Telling Stories with Technology: Theories of Narrative in Commercial Storytelling *In house technology grant with* Rick Ferdig. $1,800

SCHOLARSHIPS & AWARDS

2023: #93 in the *RHSU Edu-Scholar Public Influence Rankings.* This recognizes the 200 university-based scholars who had the biggest influence on educational practice and policy.

2022: Distinguished Development Award from the *Association of Educational Communications & Computing Technology* for the *Silver Lining for Learning* webinar.

2022: Outstanding Digital Learning Artifact from the Learner Engagement Division, *Association of Educational Communications & Computing Technology* for the *Silver Lining for Learning* webinar.

2022: TED-Ed educator

2022: #77 in the *RHSU Edu-Scholar Public Influence Rankings.* This recognizes the 200 university-based scholars who had the biggest influence on educational practice and policy.

2021: Outstanding Paper Award (with Ben Scragg, Trina Davis, Michele Norton & Arial Anbar), *Society for Information Technology & Teacher Education*

2017: Outstanding Paper Award (with Aman Yadav & Jon Good) *Society for Information Technology & Teacher Education*

2016: Outstanding Paper Award (With Rohit Mehta) *Society for Information Technology & Teacher Education*

2016: *William J. Beal Outstanding Faculty Award* for comprehensive and sustained record of scholarly excellence in research and/or creative activities, instruction and outreach.

2015: Henriksen & Mishra (2015) listed as one of the most popular articles of 2015 by TCRecord (based on number of downloads)

2014: Outstanding Research Paper Award for Kereluik, Mishra, Terry & Fahnoe (2013) awarded by the *Journal of Digital Learning in Teacher Education*, "in recognition of the single article from the prior year with the highest possibility to advance the field of teacher education, based on potential impact, contribution, innovativeness, and generalizability or usability."

2013: AACTE Best Practice Award for the Innovative Use of Technology to the EPET doctoral and master's programs (With Leigh Wolf and Matthew J. Koehler). *American Association of Colleges of Teacher Education.*

2013: Outstanding Paper Award & Best TPACK paper award (With Chris Fahnoe) Society for *Information Technology & Teacher Education*

2013: *MSU-AT&T award for Instructional Technology* (with Danah Henriksen & the CEP917 hybrid/blended design team)

2009: Outstanding Paper Award (With Tae Shin, M. J. Koehler, D. Schmidt, E. Baran, & A. Thompson) *Society for Information Technology & Teacher Education*

2008: *MSU-AT&T award for Instructional Technology* (with Matt Koehler & the TE150 online Design team)

2008: Third prize for best paper (with Qaiser Malik & Michael Shanblatt) *American Society for Engineering Education*

2007: Outstanding Paper Award (with Aroutis Foster) *Society for Information Technology & Teacher Education*

2006: *Teaching Excellence Award*, College of Education, Michigan State University

2004: *Teacher Scholar Award*, Michigan State University

2003: Nominated for *Teacher Scholar Award* by the College of Education, MSU

2000: *MSU Lilly Faculty Fellowship*. Awarded by Michigan State University.

1998:	*Editor's Choice Award*, for best paper presented at 1998 IVLA conference *International Visual Literacy Association*
1997:	*APF/COGDOP Graduate Research Scholarship in Psychology*, awarded by the American Psychological Association & Council of Graduate Departments in Psychology
1997:	*Dissertation Completion Fellowship*, Graduate College, University of Illinois at Urbana-Champaign
1996:	*On-campus Dissertation Research Grant*, Graduate College, University of Illinois at Urbana-Champaign
1997-98:	*Graduate Travel Grant* (2 years), University of Illinois at Urbana-Champaign
1992-96:	*William Chandler Bagley Fellow*, Academic merit fellowship College of Education, University of Illinois
1997:	Honorable mention for Urbana School District web site design; MultiMedia Schools Magazine
1996:	Teaching assistants rated as being excellent by their students, List maintained by the Daily Illini
1995:	*High Five Award for Excellence in Web Design*. For the web-magazine Darpan: Electronic reflections of India
1998-90:	*Graduate Scholarship*, Ministry of Education, Government of India
1982-90:	*National Talent Search Scholarship*, Awarded by the Government of India
1980-82:	*Junior Science Talent Scholarship*, Department of Education, India

TEACHING & ADVISING

Teaching

I teach courses at undergraduate, masters and doctoral levels. I have developed three doctoral level courses (*Education by Design*; *Mind Media & Learning*; & *Knowledge Media Design*); two master's level course (*Learning Technology by Design*; & *Creativity for Teaching and Learning*) and two undergraduate level courses (*Reflections on Learning*; & *Technology Literacy*). I have also taught a course on *Creativity, Innovation & Design* at the *Indian School of Business, Hyderabad* as well as courses/workshops in the Executive MBA program at the *Broad School of Business*.

Advising

Dissertation director:

Melissa Warr (Graduated May 2021, currently Assistant Professor of *Learning Design and Technology* at *New Mexico State University*.) Dissertation title: Teachers as Designers: Epistemic Diversity and Sensemaking Amidst Indeterminacy

Rohit Mehta (Graduated December 2017, currently Assistant Professor in the *Department of Curriculum & Instruction* at *California State University, Fresno*). Dissertation title: What does it mean to the literate? Designing and implementing a framework of inclusive literacy practices in a rural context.

Kristen Kereluik (Graduated December 2013, currently Lead Researcher at *Virtual Learning Research Institute* at *Michigan Virtual University*). Dissertation title: Scaffolding self-regulated learning online: A study in high school mathematics courses.

Mike DeSchryver (Graduated December 2012, currently Associate Professor, *College of Education, Central Michigan University*). Dissertation title: Toward a theory of web-mediated knowledge synthesis: How advanced learners used the web to construct knowledge about climate change behavior.

Rob Malinowski (Graduated December 2012, currently Assistant Professor at the *Office of Medical Education Research & Development*, *College of Human Medicine*, *Michigan State University*.) Dissertation title: Faculty Perceptions of Problem-based Learning in a Veterinary College.

Leigh Graves Wolf (Graduated December 2011, currently Clinical Associate Professor, Mary Lou Fulton Teachers College, Arizona State University.) Dissertation title: Faculty versus student perceptions of the quality and relevance of a master's degree in educational technology.

Danah Henriksen (Graduated December 2011, Currently Associate Professor, Mary Lou Fulton Teacher's College, Arizona State University). Dissertation title: We teach who we are: Creativity and trans-disciplinary thinking in the practices of accomplished teachers.

Anne Heintz (Graduated May 2011), currently an independent author. Dissertation title: Composing in public. Instructor MAET program, MSU.

Qaiser H. Malik (Graduated May 2010, Currently Director Engineering Education at National University of Science & Technology, Pakistan). Dissertation title: Participation in a freshman design sequence and its influence on student attitudes towards engineering.

Andrea Francis Ploucher (Graduated May 2010, Currently faculty member at Albion College, MI). Current dissertation title: Why do Some Teachers Trust Digital Technology and Others Don't? Conceptualizing the Intersection of Trust, Technology, and Education.

Aroutis Foster (graduated 2009, currently assistant professor at Drexel University). Dissertation: Gaming their way: Learning in simulation strategy video games.

Elizabeth Chase Wells (Graduated 2009, currently Extension 4-H Educator in Ottowa, MI). Dissertation: Perceptions of Michigan State University County Extension Directors and Extension Educators about the use of Information Technology in Their Work.

Kathryn Dirkin (Graduated 2007, currently associate professor at Central Michigan University). Dissertation: Three professors teaching online: The realization of teaching perspectives.

Shufang Shi (Graduated 2005, currently associate professor at SUNY Cortland). Dissertation: Teacher moderating and student engagement in synchronous computer conferencing

Lisa Peruski (Graduated 2003, currently at University of Phoenix)
Dissertation: Contradictions, disturbances, and transformations: An activity theory analysis of three faculty members' experience with designing and teaching online courses.

Students who have received awards and fellowship under my guidance:

Spencer Research Training Grant Fellows	Shufang Shi, Kathryn Hershey/Dirkin, Aroutis Foster, Leigh Graves Wolf
Spencer Summer Fellowship	Kathryn Hershey, Esther Minha, Michael DeSchryver

Summer Research Grant	Michael Phillips, Aman Yadav, Eduardo Rodrigues, Khusro Kidwai, Chun Lai, Leigh Graves Wolf (2004)
Foreign Language Area Studies Fellow	Jim Ratcliffe (2006)
Mellon Mays pre-dissertation fellowship, Robert Craig Fellowship in Psychological Studies in Education & Social Science Research Council	Aroutis Foster (2007)
FIE 2009 New Faculty Fellow & Received Excellence in Teaching Citation 2009 – 10	Qaiser Malik (2009)
Dissertation Completion Fellowship	Andrea Ploucher Francis (2009), Michael DeSchryver (2010)
Outstanding Faculty/Staff award, presented by the Resource Center for Person's with disabilities	Andrea Ploucher Francis, for her work in teaching TE150, Reflections on Learning (2010)
Research practicum/ development (RP/D) Fellowship	Kristen Kereluik (2010)
Fellowship to enhance global understanding (2011)	Kristen Kereluik (2011); Jon Good (2015), Rohit Mehta (2016)
Nominated for Learning without Frontiers Awards for Hero Innovators and Innovations for Learning	Leigh Wolf (2011)
Spencer dissertation fellowship	Michael Deschryver (2011)
Urban Education Retention Scholarship	Laura Terry (2012)

Dissertation committees served:

Graduated: Sapna Vyas, Lina Wu, Mark Girod, Jan Amsterberg, Lorin Shepard, Regina Smith, Warren Buckleitner, Shane Cavanaugh, Aman Yadav, Bo Yan, Chun Lai, Steven Vassalo, Christina Doktor, Cindy Kendall, Erik Drake, Natalia Ignatova Collins, Nick Sheltrown, Shenglan Zhang, Mustafa Fatih Demir, Benjamin Forsythe

Undergraduate students:

Faculty advisor to Unified Society of South Asians
Faculty advisor to ASHA for Education (2005-2007), Michigan State University
Advisor to Carols Jaramillo, McNair/SROP scholar.
Luke Niewiadomski, independent research

PUBLICATIONS

Podcasts, Webinars & more

2022-present	Co-host *Learning Futures* podcast with Dr. Sean Leahy
2020-present	Co-host: *Silver Lining for Learning* (silverliningforlearning.org) webinar series. In collaboration with Zhao, Y., Dede, C. & Bonk. C.
2020-2021	Host: *Value Laden: Conversations with Educational Leaders on ethical leadership.* podcast series
2020 – present	Producer: *Learning Futures* podcast, hosted by Dr. Ron Beghetto

2020 Host and producer: *Future Tense Fiction.* A collaboration with Slate magazine, New America and Arizona State University.

2019-present Talking about Design (talkingaboutdesign.com). Advisor for student led website on bringing design based approaches to education and learning.

Books

Henriksen, D., & Mishra, P. (Eds.) (2022). *Creative Provocations: Speculations on the future of creativity, technology & learning*. Springer.

Mishra, P., Henriksen, D. & the Deep-Play Research Group (2017). *Creativity, Technology & Education: Exploring their Convergence.* Springer Briefs in Educational Communications and Technology.

Henriksen, D., & Mishra, P. (2016). *Creativity, technology & teacher education*. Waynesville, NC: Association for the Advancement of Computing in Education (AACE).

Herring, M., Koehler, M.J., & Mishra, P. (2016). *Handbook of Technological Pedagogical Content Knowledge, 2nd Edition.* Routledge.

Mishra, P., Koehler, M.J., & Zhao, Y. (Eds.) (2007). *Faculty development by design: Integrating technology in higher education*. Information Age Publishing, Greenwich, CT.

Self-Published

Mishra, P. & The MSUrbanSTEM team (2015). *Ultimate STEM: 49 amazing teaching moments in STEM*. Michigan State University.

Mishra, P. & The MSUrbanSTEM team (2015). *This I believe: The struggles, joys and motivations of 25 STEM educators.* Michigan State University.

Mishra, P. & The MSUrbanSTEM team (2014). *Roots of STEM: A collection of lesson plans for teachers by teachers*. Michigan State University.

Mishra, P. (2015). (Ed.). *Momentary lapis lazuli of reason: Academia for better or verse*. East Lansing MI.

Mishra, P. (1990) A 2 Z: *A dictionary of design*. Published by The Industrial Design Center Press: Bombay, India

International Reports

Behar, A., & Mishra, P. (2015). ICT in Schools: Why focusing policy and resources on educators not children, will improve educational outcomes. *Global Information Technology Report 2015: ICT for inclusive growth.* A report by the World Economic Forum, Davos Switzerland.

Articles in peer reviewed journals

Jacobson, M. J., Maouri, C. , Mishra, P., & Kolar, C. (1996). Learning with hypertext learning environments: Theory, design, and research. *Journal of Educational Multimedia and Hypermedia. 5*(3/4), 239-281.

Mishra, P. (1999/2004). The role of abstraction in scientific illustration: Implications for pedagogy. *Journal of Visual Literacy. 19*(2), 139-158. To be reprinted in C. Handa (Ed.). Visual rhetoric in a digital world: A critical sourcebook. (pp. 177-194). Boston, MA: Bedford/St. Martin's Press.

Mishra, P., Yong, Z., & Tan, S. (1999). From concept to software: Developing a framework for understanding the process of software design. *Journal of Computing in Education. 3*2(3). 220-238.

Zhao, Y., Mishra, P., Worthington, V. L., & Ferdig, R. E. (1999). A Socio-technical perspective on web-based manuscript management and publishing: A two-year Case Study. *Vine*.

Zhao, Y., Mishra, P., & Girod, M. (2000). A clubhouse is a clubhouse is a clubhouse. *Computers in Human Behavior*. 16(3), 287-300.

Zhao, Y. Tan, S. H., & Mishra, P. (2000). Going Beyond the Teacher's Machine. *Journal of Adult and Adolescent Literacy*. 348-354.

Mishra, P., Nicholson, M., & Wojcikiewicz, S. (2001/2003). Does my wordprocessor have a personality? Topffer's Law and Educational Technology. *Journal of Adolescent and Adult Literacy*. 44 (7), 634-641. Reprinted in B. C. Bruce (Ed.). *Literacy in the information age: Inquiries into meaning making with new technologies*. (pp. 116-127). Newark, DE: International Reading Association.

Zhao, Y., Byers, J., Mishra, P., Topper, A., Frank, K., Enfield, M., Pugh, K., Chen, H., Tan, H. (2001). What do they know? A comprehensive portrait of recipients of a state technology grant for teachers. *Journal of Computing in Teacher Education*, 17 (2). 24-37.

Alvarez-Torres, M., Mishra, P., & Zhao, Y. (2001). Judging a book by its cover. Cultural Stereotyping of interactive media and its effect on the recall of text information. *Journal of Educational Multimedia and Hypermedia* . 10(2), 161-183

Mishra, P., & Koehler, M. J. (2002). Art from randomness. How Inverso uses chance to create haiku. *Interactive Multimedia Electronic Journal of Computer Enhanced Learning*. Retrieved October 2, 2004 from http://imej.wfu.edu/articles/2002/1/03/index.asp

Mishra, P. & Brewer, W. F. (2003) Theories as a form of mental representation and their role in the recall of text information. *Contemporary Educational Psychology,* 28, p.277-303.

Mishra, P., Hershey, K. (2004). Etiquette and the design of educational technology. *Communications of the ACM*, 47(4), 45-49.

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.

Ferdig, R. E., Mishra, P. (2004). Emotional responses to computers: Experiences in unfairness, anger and spite. *Journal of Educational Multimedia and Hypertext*. 13(2), 143-161.

Ferdig, R. E., Mishra, P., & Zhao, Y. (2004). Component architectures and web based learning environments. *Journal of Interactive Learning Research*. 15(1). 75-90.

Peruski, L., & Mishra, P. (2004). Webs of activity in online course design and teaching. *ALT-J, Research in Learning Technology*. 12(1). 37-49.

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.

Koehler, M.J., & Mishra, P. (2005). Teachers learning technology by design. *Journal of Computing in Teacher Education*. 21(3). 94-102.

Hershey, K., Mishra, P., & Altermatt, E. (2005). All or nothing: Levels of sociability of a pedagogical software agent and its impact on student perceptions and learning. *Journal Educational Multimedia and Hypermedia*. 14(2), 113-127.

Mishra, P. (2005). On becoming a web site. First Monday. V. 10. Available online at http://www.firstmonday.org/issues/issue10_4/mishra/

Mishra, P., & Koehler, M. J. (2006). Technological Pedagogical Content Knowledge: A new framework for teacher knowledge. *Teachers College Record* 108 (6), 1017-1054.

Mishra, P. (2006). Affective Feedback from Computers and its Effect on Perceived Ability and Affect: A Test of the Computers as Social Actor Hypothesis. *Journal of Educational Multimedia and Hypermedia*. 15 (1), pp. 107-131.

Mishra, P., & Girod, M. (2006/2007). Designing learning through learning to design. *The High School Journal*. 90(1). 44 – 51. Reprinted in K. M. Cauley, & G. Pannozzo, (Eds.), Annual Edition: *Educational Psychology* 07/08. McGraw-Hill: NY.

Mishra, P., & Yadav, A. (2006). Using hypermedia for learning complex concepts in chemistry: A qualitative study on the relationship between prior knowledge, beliefs and motivation. *Education and Information Technologies*. 11(1), 33-69.

Shi , S., Mishra, P., Bonk, C. J., Zhao, Y., Tan, S. (2006). Thread Theory: A Framework Applied to Content Analysis of Synchronous Computer Mediated Communication Data . *International journal of instructional technology and distance learning*. 3(3), 17-38.

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Rethinking Technology, & Creativity in the 21st Century: A series

These articles are part of an ongoing article series I have been co-leading and writing with the deep-play research group. The DPRG is an informal group of faculty and students spread over Arizona State University, Michigan State University and Iowa State University. This series has led to two books one edited by Danah Henriksen (2016) and the other by Mishra & Henriksen (2017) with a third in the works.

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Research to Practice: Educational Psychology

This is a series of 4 articles written by doctoral students at Michigan State under the editorial guidance of Punya Mishra & Matthew Koehler

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Research to Practice: Science Education

This is an on-going series of articles written for iWonder: Rediscovering School Science, a science education journal targeted at middle school teachers. Each article "translates" a piece of current research for practitioners.

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Niederhauser, D., Mishra, P. & members of EDUsummIT thematic working group (2017). EDUsummIT 2017 Executive Summary. Report on Working Group 9: Supporting Sustainability and Scalability in Educational Technology Initiatives.

Henriksen, D., Henderson, M. & members of EDUsummIT thematic working group (2019). EDUsummIT 2017 Executive Summary. Report on Working Group 3: Creativity for teachers and teaching.

Mathematics, Art & Creativity

This is a series of articles I wrote for At Right Angles, a mathematics education journal. Most of them are co-authored with Gaurav Bhatnagar. These articles are a mix of mathematics and original artistic creations (poetry, visual design).

Mishra, P. (2013). The mathematical "I." *At Right Angles*.

Mishra, P. & Bhatnagar, G. (2013). Of Math & Art: Introducing Ambigrams. *At Right Angles*.

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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). Available: http://www.citejournal.org/vol7/iss2/editorial/article1.cfm

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). Available: http://www.citejournal.org/vol7/iss3/editorial/article1.cfm

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Berzina-Pitcher I., Mishra P., Giridhar S., (June 2016) By Design and by Chance in Blessinger P., Cossa B. (Eds.) University Partnerships for Academic and Program Development (IHETL Vol 7). Emerald Publishing, Bingley, United Kingdom.

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MSU PT3 Team (2001). Technology and Teacher Education: An Ecological Approach. Proceedings from the Annual Meeting of the Society for Information Technology & Teacher Education, San Diego, CA. Charlottesville, VA: Association for the Advancement of Computing in Education.

Mishra, P. & Hershey, K. (2002). A framework for designing etiquette for educational technology. Proceedings of the AAAI Fall 2002 Symposium on Etiquette in Human-Computer Work. AAAI Press: Washington DC.

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for Educational Communications and Technology (AECT) 2004 International Convention, Chicago, IL.

Mishra, P., & Koehler, M.J. (2005, March). Educational technology by design: Results from a survey assessing its effectiveness. Proceedings from the Annual Meeting of the Society for Information Technology & Teacher Education, Phoenix, AZ. Charlottesville, VA: Association for the Advancement of Computing in Education.

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Malik, Q., Mishra, P., & Shanblatt, M. (2008). Identifying learning barriers for non-major engineering students in electrical engineering courses. Proceedings of the 2008 American Society for Engineering Education, North Central Section Conference.

Malik, Q. Mishra, P. Shanblatt, M. (2008). A Case Study of Perception and Learning Barriers of Students in Non-major Engineering Courses", Proceedings of 38th ASEE/IEEE Frontiers in Education Conference, Saratoga Springs, NY, October 2008.

DeSchryver, M. & Mishra, P. (2008). Pre-Service Teachers and the Web: Does Access to the Web Enhance Creative Thinking about Teaching?. In K. McFerrin et al. (Eds.), Proceedings of Society for Information Technology and Teacher Education International Conference 2008 (pp. 2560-2565). Chesapeake, VA: AACE.

Francis, A. & Mishra, P. (2008). Why do Some Teachers Trust Digital Technologies and Others Don't?. In K. McFerrin et al. (Eds.), Proceedings of Society for Information Technology and Teacher Education International Conference 2008 (pp. 3749-3751). Chesapeake, VA: AACE.

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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.

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Malik, Q. H., Koehler, M., Mishra, P., Buch, N., & Shanblatt, M. A. Understanding Freshman Perceptions about Engineering. American Society for Engineering Education, North Central Section Conference, Grand Rapids, Michigan, April 2009.

Malik, Q. H., Koehler, M., Mishra, P., Buch, N., Shanblatt, M. A., & Pierce, S. J. Participation in a Freshman Design Sequence and Its Influence on Student Attitudes Towards Engineering. 39th American Society for Engineering Education /IEEE Frontiers in Education Conference, San Antonio, Texas.

Malik, Q. H., Koehler, M.J., Mishra, P., Buch, N., & Shanblatt, M. (2009). Does a Cornerstone Design Experience Affect Changes in Freshman Attitude?, Proceedings of 117th ASEE Annual Conference and Exposition, Louisville, KY.

Malik, Q. H., Mishra, P., & Shanblatt, M. A. (2009). Learning Barriers in Service Courses: A Mixed-Methods Study", Proceedings of 117th ASEE Annual Conference and Exposition, Louisville, KY. Frontiers in Education Conference, San Antonio, TX, Oct 2009.

Malik, Q. H., 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., Keenan, S., Mehta, R., & Henriksen, D. (December, 2015). I Care About the Beauty in Science: Aesthetics in Scientific Practice and Pedagogy. In S. Chandrasekharan, S. Murthy, G. Banjeree, A. Muralidhar (Eds.), *Emerging Computational Media and Science Education: Proceedings of the Episteme 6 Conference*. Mumbai, India: Homi Bhabha Centre for Science Education, TIFR.

Mishra, P., Wolf, L.G., Gunnings-Moton, S., Seals, C., Berzina-Pitcher, I., & Mehta, R. (December 2015). Enhancing Urban Teachers STEM and Leadership Capacities: A preliminary report on a unique private-public-public partnership. In S. Chandrasekharan, S. Murthy, G. Banerjee, A. Murlidhar (Eds.). *Emerging Computational Media and Science Education. Proceedings of the Episteme 6 Conference.* Mumbai, India. Homi Bhabha Center for Science Education, TIFR.

Book reviews

Mishra, P., & Wojcikiewicz, S., (2002). Taking things at face value: The psychology of media response. A review of The Media Equation. Journal of Educational Computing Research. 26(2). 219-226.

Other

Mishra, P. (2005, June). Technologies on the verge... Digit Magazine. [Invited essay for a special issue on Digital Convergence.]

Video

Mishra, P. (1989). Perception & illusion. Educational video. Industrial Design Center, Bombay

Mishra, P. (1990). The life & death of stars. The Industrial Design Center, Bombay

Mishra, P. (2001). One child's understanding of the day night cycle and seasons. Short instructional Video. Michigan State University.

Creative work

2014-15: Deep-Play: Creativity in Math and Art through creative wordplay. Exhibition at the MSU Museum along with media created for the exhibition, such as videos and website (http://www.deep-play.com).
2009: Create | Explore | Series, on mashup and 3 original movies
2008: Co-designed cover of Handbook of TPCK for Educators (published by AACTE and Routledge).
2008: Created designs for ideasarecool.com based on photographs.
2007: Ambigram design work featured in Burkhard Polster (Edited) book titled Eye Twisters: Ambigrams and other visual puzzles to amaze and entertain.
2006: Hari Puttar and the Magic Wand. Video spoof created with Amol Pavangadkar
2003: Ambigrams included in Archimedes, a magazine for puzzles and recreational mathematics
2000: Cause-Effect ambigram used in cover of MIT press released book titled, The things we do: Using the lessons of Bernard and Darwin to understand what, how, and why of our behavior.

Software design

Mishra, P. (2002-2007). Complete design and implementation of online courses for 817: Learning Technology by design. [Website/Platform independent].

Koehler, M. J. & Mishra, P. (2007). Design of TE150, Reflections on Learning website and course content. [Website/Platform independent].

Koehler, M. J., & Mishra, P. (2007). Executive editor of the TPCK wiki (www.tpck.org)

Mishra, P. (2004). Author / Designer for multiple Weblogs at the College of Education. These include, Design Media Learning, DSLTC & Taleem. [Website/Platform independent].

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Koehler, M. J. & Mishra, P. (2001/2003). Inverso: Automatic Haiku Generator. Michigan State University. [Macromedia director / Apple Macintosh]

Mishra, P. & Asam, A. (2001). Praise & Blame. Experimental software for understanding student attribution. Michigan State University. [Macromedia director / Apple Macintosh]

Mishra, P. (2001). WebPowerSearch. Experimental software for understanding student attribution. Michigan State University. [Web site/ Platform Independent]

Alvarez-Torres, M. & Mishra, P. (2000). Carmen and Susan: Experimental software for language learning. . Michigan State University. [Macromedia director / Apple Macintosh]

Mishra, P., Tan, S. (2000). Max / Linus: Dominant and Submissive software personalities. Michigan State University. [Macromedia director / Apple Macintosh]

Mishra, P. (2000). Pure Interaction Interface. Michigan State University. [Macromedia director / Apple Macintosh]

Mishra, P. (1998). FLiPS: Flexible Learning In the Periodic System. Multiple representational hypertext for the periodic system of elements. University of Illinois at Urbana-Champaign. [HTML-CGI/Platform independent]

Mishra, P., & Sawai, S. (1996). Darpan: Web magazine. [HTML /Platform independent]

Mishra, P., Jacobson, M. J., & Ravlin, S. (1995). Conceptual visualization of Darwinism and Lamarkianism. Experimental biology hypermedia program. University of Illinois at Urbana-Champaign. [Macromedia Director/Apple Macintosh]

Mishra, P., Spiro, R. J., Feltovich, P. J. & Coulson, R. L. (1995). Conceptual visualization of bloodflow: Experimental simulation/animation. University of Illinois at Urbana-Champaign. [Macromedia Director/Apple Macintosh]

Mishra, P., Neuman, E. (1994). Animations for teaching genetics. BBN Educational Technologies Division: Cambridge MA [Macromedia Director/Apple Macintosh]

Mishra, P. (1992). Macroeconomics animations. Miami University, Oxford OH [Macromedia Director/Apple Macintosh]

Mishra, P. & Montgomery, T. (1992). Multimedia presentation on technology to the Board of Trustees. Miami University, Oxford OH [Macromedia Director/Apple Macintosh]

Mishra, P. & Vogel, R. (1991). Interactive video on multicultural awareness. Miami University, Oxford OH [Macromedia Director-Laserdisc/Apple Macintosh]

Mishra P. (1990). Electricity & Magnetism for undergraduate engineering students. Industrial Design Center, Bombay [HyperTalk/Apple Macintosh]

Singh, U., Mishra, P. & Bal, H. (1988). Database for the Ministry of Human Resources, Govt. of India. Birla Institute of Technology and Science, Pilani. [dBase/IBM-DOS]

Mishra, P. (1987-88). GeoPlot: Visualization of geographic data. Birla Institute of Technology and Science, Pilani. [Turbo Pascal/IBM-DOS]

PRESENTATIONS

Invited Keynote addresses

Mishra, P. & Henriksen, D. (2021). Designing STEAM. Keynote at the 2021 Nevada STEAM conference.

Mishra, P. (2020). Education in a pandemic: A crisis (and possibly an opportunity). Presented at the TheMarker Conference, Israel.

Mishra, P. (2020), TPACK and beyond: Designing technology and education (from artifacts to culture). 18th Shanghai International Curriculum Forum.

Mishra, P. (2019). Beyond TPACK: Designing Technology & Education—from artifacts to culture.

Mishra, P. (2019). From artifacts to culture: My journey through design. Keynote address at the 50th anniversary of the Industrial Design Center, Mumbai, India. Presented at the MEITAL 2019 conference, Tel Aviv.

Mishra, P. (2019). Creativity in teaching and learning. Presented at the Celebration of Teaching conference, University of Missouri.

Mishra, P. (2019). Technology & Education: A provocation. Presented at the Principles for equitable design of STEM learning environments. Tucson.

Mishra, P. (2018). The future of learning. Presented at the Quest 2 Learn Annual Summit, Bangalore, India.

Mishra, P. (2019). Mobile Technology in Teacher Education. Keynote address at the *Mobile Technology in Teacher Education Conference.* University of Technology, Sydney.

Mishra, P. (2009, April). Blurring the boundaries: The personal and the professional in a webbed world. Keynote address at Engaging Minds: Pedagogy and Personalism. DePaul University. Chicago.

Mishra, P. & Koehler, M. J. (2009, February). Technology and Creativity. EdTech 2009 Annual Conference. Ashland Virginia.

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). 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). Thinking creatively: Teachers as designers of technology, pedagogy and content. Keynote address to the 2008 Annual Meeting of the Society for the Information and Technology & Teacher Education, New Orleans.

Mishra, P., & Koehler, M.J. (2008, February). Where Technology takes learning to a higher level: TPCK and curricular exemplars. Annual Meeting of the American Association of Colleges of Teacher Education (AACTE), New Orleans.

Mishra, P., & Koehler, M.J. (2007, March). Technological Pedagogical Content Knowledge (TPCK): Confronting the Wicked Problems of Teaching with Technology. Invited Address to the Annual Meeting of the Society for the Information and Technology & Teacher Education, San Antonio, TX.

Koehler, M.J., & Mishra, P. (2007, February). Introducing Technological Pedagogical Content Knowledge (TPCK). Invited Address to the Annual Meeting of the American Association of Colleges of Teacher Education (AACTE), New York.

Harris, J., Koehler, M.J., Mishra, P., & Thompson, A. (2007, March). Future Directions for TPCK Research & Development. Panel discussion at the Annual Meeting of the Society for the Information and Technology & Teacher Education, San Antonio, TX.

Mishra, P. (January, 2006). Keynote address titled "On becoming a website" in a session titled, "Conversations on Learning & Teaching Online." American Library Association Annual Conference. San Antonio.

Mishra, P. (June, 2005). Keynote address titled "On becoming a website" in a session titled, "Conversations on Learning & Teaching Online." American Library Association Annual Conference. Chicago.

Mishra, P. (2002, December). Psychological and pedagogical principles for designing online courseware. Keynote address at Vidyakash: The First International Conference on Online Learning. Mumbai, India.

Invited Presentations

Mishra, P., Anbar, A., & Davis, T. (2021). The future of STEM education. Keynote address at the 2021 American Association of Advancement of Science Annual Meeting.

Mishra, P., Leahy, S. & Donner, J. (2021). Learning futures: Designing the horizon. Presentation at the Winter Games, Digital Immersion Experience. ShapingEDU conference.

Mishra, P. (2021). Technology in Teaching & Learning: The TPACK framework and more. Presented at the REMOTEK12: the Connected Teacher summit.

Mishra, P. (2020). Designing pencils, universities and everything in between. Dean's Lecture Series, School of Education, Drexel University.

Mishra, P., & Anbar, A. (2020). Embedding humanistic knowledge in STEM. Presented at the Public Interest Technology University Network conference.

Mishra, P., Harris, J. (2020). Teaching with technology: Is TPACK still relevant. Presentation at Digital Transformations, Monash University.

Mishra, P. (2020). Creativity, technology & Design for learning (in STEM and beyond). Presentation at Kathmandu University, School of Education.

Mishra, P. (2009). Technology, teachers and creativity. Invited presentation to Saline School District professional development Day. Saline MI.

Mishra, P., Wolf, L. & DeSchryver, M. (2009). Workshop on creativity and teaching with technology. Wayne RESA, Michigan.

Mishra, P. (2009). 21st Century Learning, Technology & Creativity. Presentation at Dexter School District, Dexter, MI.

Koehler & Mishra (2009), Educational Technology & Teacher Education, the TPACK framework. Department of Curriculum Design & Educational Innovation, University of Twente.

Mishra, P., & Koehler, M. J. (2008, March). Technology integration in higher education: Challenges and opportunities. Invited presentation at the Colloquium on the Changing Professoriate. Michigan State University.

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, 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 & Koehler (2008). Technology integration in higher education. Center for Instructional Technology & Multimedia, University Sains Malaysia, Penang. Malaysia.

Koehler & Mishra (2008). The TPACK framework and teacher education. Chiayi University, Taiwan.

Koehler & Mishra (2008). Technology integration in teaching, understanding the TPACK framework. Chung Cheng University, Taiwan.

Koehler & Mishra Taiwan (2008). What do teachers need to know, introducing the TPACK framework. National Sun Yat-Sen University, Taiwan.

Mishra & Koehler (2008). Creativity in Technology Integration and the TPACK framework. Faculty of Education, University of Hong Kong. Hong Kong.

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

Mishra, P. (2008). Looking for IT in India. Invited presentation for the series on Lessons Learned and New Directions in International Education, College of Education, Michigan State University.

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.

Mishra, P. (2007). Documenting scholarship, teaching and service. Presentation to the Survive & Thrive at MSU meeting.

Mishra, P. & Luckie, D. (2006). The scholarship of teaching. Presentation to the Lilly Fellows group, Michigan State University.

Mishra, P. (2006). Documenting scholarship, teaching and service. Presentation to the Survive & Thrive at MSU meeting.,

Mishra, P. (2004). The art and design of ambigrams. Presentation to Synapse, an information organization. Goa, India.

Mishra, P. (2004, December). Representations n science. Presentation at the Homi Bhaba Center for Science Education. Mumbai, India,

Mishra, P. (2002). Integrating technology in teacher education. Invited presentation at the National Institute for Educational Planning and Administration, New Delhi, India.

Mishra, P. (December, 2002). From distance education to web based learning. Invited presentation at the research seminar at Indira Gandhi National Open University,

Mishra, P. (December, 2002). Does my wordprocessor have a personality? Invited presentation at the Indian Institute of Technology, Mumbai, India.

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.

MSU Faculty development team (2001). Faculty development in the use of technology. Preconference workshop at the AACTE annual conference. Facilitator and Discussant: Carole Ames. Dallas TX. March 1.

Mishra, P. (2000). Computers as social actors. Invited presentation to the Combined Program in Education and Psychology, University of Michigan.

Mishra, P. (2000). Social Interfaces and Learning Technologies. Invited presentation to the Culture and Cognition Group, Department of Psychology, University of Michigan.

Mishra, P. (2000). Psychological responses to computers: What does it mean for education. Invited presentation to the Media Interface and Network Design Lab., Department of Telecommunications, MSU.

Mishra, P. (1999). Integrating the Internet in the K-12 Curriculum. Presentation at the 15th Annual Technology Conference, College of Education, MSU.

Mishra, P. (1999). The pencil and microscope: Thinking about and with technology. Presentation at the Educational Technology Leadership Institute. Michigan State University.

Mishra, P. (1999). Multiple representations of the Periodic system: The development of a multimedia hypertext. Socio-Cultural Research Group, College of Education, Michigan State University.

Mishra, P. (1999). Evolutionary psychology and its relationship to educational psychology. Deweyan Ideas Group, College of Education, Michigan State University.

Mishra, P. (1997, May). Principles of design for the web. Invited speaker for "Inventing our Future: Design institute on the schools of the 21st century." Workshop organized by the Illinois State Board of Education.

Mishra, P. (1994, July). Cognitive Flexibility Theory and Rellab: Integrating microworlds with hypertext to teach the special theory of relativity. Invited presentation to the Educational Technologies Division. Bolt, Beranek & Newman (BBN), Cambridge MA.

Conference presentations

Mishra, P., Seals, C., Beymer, P., Mehta, R., Cosby, M., & Shack, K. (March 2016). Creative Uses of Mobile devices in the STEM classroom. Presentation accepted at MACUL Annual Meeting, Grand Rapids, MI.

Mishra, P., Wolf, L.G., Gunnings-Moton, S., Seals, C., Berzina-Pitcher, I., Mehta, R., Mehta, S., Horton, A., Cosby, M., Shack, K., & Marcotte, C. (March 2016). Reinventing TPACK, STEM Teaching and Leadership in an Urban Context. Symposium accepted at Society for Information Technology and Teacher Education (SITE) Annual conference, Savannah, GA.

Mishra, P., Wolf, L.G., Gunnings-Moton, S., Seals, C., Berzina-Pitcher, I., & Mehta, R. (April 2016). Enhancing Urban Teachers' STEM, Technological, and Leadership Capacities Through Innovative Instructional Practices. Paper to be presented at the AERA Annual Meeting, Washington, D.C.

Mishra, P., Wolf, L., Gunnings-Moton, S., Marcotte, C., Shack, K., Horton, A., Seals, C., Lishinski, A., Pawlicki, D. (2015, March). Enhancing Urban Teachers STEM and Leadership capacities: a preliminary report on a unique private-public-public partnership. Symposium at Society for Information Technology and Teacher Education 2015, Las Vegas, NV.

Mehta, R., & Seals, C. (October 2015). Teachers Teaching Teachers: Using Technology to Foster Creativity in STEM. Presentation at Pedagogy for the Digital Age LOCUS Forum at MSU Library, Lansing, MI.

Seals, C. (October 2015). Discussing the pedagogical approach, theoretical framework, and impact of a STEM teacher development program, on teachers in an Urban setting. Presented at the 12th Annual Black Graduate Student Association (BGSA) Research Symposium, Michigan State University, Lansing, MI.

Mishra, P., Wolf, L.G., Gunnings-Moton, S., Seals, C., Berzina-Pitcher, I., & Mehta, R. (December 2015). Enhancing Urban Teachers STEM and Leadership Capacities: A preliminary report on a unique private-public-public partnership. Paper presented at the EPSITEME 6 in Mumbai, India.

Mishra, P., Keenan, S. F., Mehta, R., & Henriksen, D. (2015, December). I Care About the Beauty in Science: Aesthetics in Scientific Practice and Pedagogy. Paper presented at epiSTEME 6, Mumbai, India.

Mehta, R., Henriksen, D., & Mishra, P. (2015, March). Through the "Cosmos": Beauty and Aesthetics in Science Education and Popular Media. Full paper presented at the Society for Information Technology and Teacher Education (SITE), Las Vegas, NV. http://doi.org/10.13140/RG.2.1.2730.8566

Mehta, R. & Mishra, P. (2016, March). Switching between reading stances: intertextuality and comprehension in multimodal Texts. Full Paper presentation at Society for Information Technology and Teacher Education, Savannah, GA.

Mehta, S., Mehta, R., Berzina-Pitcher, I., Seals, C., & Mishra, P. (2016, March). 49 Stories That Make an Ultimate STEM Lesson Plan. Presented at the Society for Information Technology and Teacher Education, Savannah, GA.

Mehta, R. & Mishra P. (2016, April). Switching Reading Stances: A Study of Intertextuality and Meaning-Making in Multimodal Texts. Full Paper presentation at the American Educational Research Association Annual Meeting, Washington, D.C.

Good, J., Keenan, S.F., and Mishra, P. (2016, March). Education:=Coding+Aesthetics; Aesthetic Understanding, Computer Science Education, and Computational Thinking. Presented to be presented at the annual conference for SITE, Savannah, GA.

Henriksen, D., Mishra, P., Cain, W., DeSchryver, M., Fahnoe, C., Good, J., Keenan, S. F., Mehta, R., Richardson, C., & Terry, C. (2015, March). The Roots of Creativity: Transdisciplinary Skills Symposium. Presented at the annual conference for SITE, Las Vegas, NV.

Henriksen, D., Mishra, P., Cain, W., Friedman, A., Garofalo, J., Hartman, D., Hicks, D., Lee, J., Park, J. C., & Smith, S. (2015, March). Creativity Across the Disciplines: Exploring the Boundaries of Teacher Education. Symposium presented at The Society for Information Technology & Teacher Education International Conference 2015. Las Vegas, NV.

Mehta, R., Henriksen, D., & Mishra, P. (2015, March). Creative Teachers: Fueled by Interdisciplinary and Avocational Pursuits. Paper presented at The Society for Information Technology & Teacher Education International Conference 2015. Las Vegas, NV.

Mishra, P., Henriksen, D., Smith, S., DeSchryver, M., Cain, W., Good, J., Terry, C. (2014, March). Fail Again, Fail Better: Contextual factors that influence creativity in technology mediated learning contexts. Symposium presented at The Society for Information Technology & Teacher Education International Conference 2014. Jacksonville, FL.

Henriksen, D., Mishra, P., Lee, J., Hartman, D., Park, J. C., Garofalo, J., Cain, W. (2014, March). (In)Disciplined Learning in Teacher Education. Symposium presented at The Society for Information Technology & Teacher Education International Conference 2014. Jacksonville, FL.

Smith, S., Tillman, D., Slykhuis, D., Mishra, P., Alexander, C., Henriksen, D., Church, R., Goodman, A. (2014, March). Building Multidisciplinary Connections: Intersections of Content, Creativity, and Digital Fabrication Technologies. Symposium presented at The Society for Information Technology & Teacher Education International Conference 2014. Jacksonville, FL.

Mishra, P., Henriksen, D., DeSchryver, M., Kereluik, K., Terry, L., Fahnoe, C., Wolf, L., & Leahy, S. (2013, March). Breaking Disciplinary Boundaries in 21st Century Learning: Creative Teaching with Digital Technologies. Symposium presented at The Society for Information Technology & Teacher Education International Conference 2013. New Orleans, LA.

Mishra, P., Henriksen, D., Koehler, M., Spector, M., Dickson, P., Dickson, R., Tyler-Woods, T., Jones, G., & Zellner, A. (2013, March). The Hitchiker's Guide to Hybrid and Online Doctoral Programs. Symposium presented at The Society for Information Technology & Teacher Education International Conference 2013. New Orleans, LA.

Henriksen, D., & Mishra, P. (2012, April). We Teach Who We Are: Creativity and trans-disciplinary thinking among exceptional teachers. Poster session presented at the meeting of the American Educational Research Association (AERA). Vancouver, BC.

Koehler, M.J., Rosenberg, J., Greenhalgh, S., Zellner, A., & Mishra, P. (2014, March). Can portfolio-based assessments demonstrate teachers' TPACK? Paper to be presented at the Society for Information Technology & Teacher Education International Conference 2014. Jacksonville, FL.

Kereluik, K., & Mishra, P. (2011, April). Understanding Adolescents, Informal Self-Regulated Learning Online. Paper presented at the 2011 American Educational Research Association Annual Conference. April 8 - April 12, New Orleans, LA.

Kereluik, K., & Mishra, P. (2011, March). Adolescents' activities online and how their notions of learning shape strategies and expectations. Paper presented at the 2011 International Conference of the Society for the Information and Technology & Teacher Education. March 7 – March 11, Nashville, TN.

Kereluik, K., & Mishra, P. (2011, March). Developing trans-disciplinary creativity, rethinking the C in TPACK. Paper presented at the 2011 International Conference of the Society for the Information and Technology & Teacher Education. March 7 – March 11, Nashville, TN.

Mishra, P., & Kereluik, K. (2011, March). What 21st century learning? A review and a synthesis. Paper presented at the 2011 International Conference of the Society for the Information and Technology & Teacher Education. March 7 – March 11, Nashville, TN.

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

Shin, T. S., Mishra, P., & Koehler, M, J. (2011). Assessing TPACK, a review of the literature with a special emphasis on the issues of reliability and validity. Paper accepted for presentation at Society for Information Technology & Teacher Education International (SITE) Conference Annual Meeting, Nashville, TN.

Voogt, J., Shing, T.S., Mishra, P., Koehler, M.J., Schmidt, D., Baran, E., Thompson, A., Wang, W., Alayyar, G., Fisser, P., Agyei, D., Ormel, B., Vlethuis, C., Tondeur, J., & Gibson, D. (2011). Teachers' assessment of TPACK: Where are we and what is needed? Symposium presented at the 2011 Annual Meeting of the Society for Information Technology & Teacher Education International (SITE) Conference, Nashville, TN.

Foster, A., Mishra, P., & Koehler, M.J. (2010, March). The process of learning in a simulation strategy game: Disciplinary knowledge construction. Paper presented at the 2010 International Conference of the Society for the Information and Technology & Teacher Education. March 29 – April 2, San Diego, CA.

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.

Kereluik, K., Mishra, P., & Koehler, M.J. (2010, March). Reconsidering the T and C in TPACK: Repurposing technologies for interdisciplinary knowledge. Paper presented at the 2010 International Conference of the Society for the Information and Technology & Teacher Education. March 29 – April 2, San Diego, CA.

Malik, Q., Mishra, P., Shanblatt, M. (2010, June). Learning Barriers in Service Courses: A Mixed-Methods Study, Proceedings of 117th ASEE Annual Conference and Exposition, Louisville, KY.

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.

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

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.

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.

Dirkin, K., & Mishra, P. (2010). Values, Beliefs and Perspectives: Teaching online within the Zone of Possibility Created by Technology. Paper presented at the 2010 International Conference of the Society for the Information and Technology & Teacher Education. March 29 – April 2, San Diego, CA.

DeSchryver, M., & Mishra, P. (March 2008). Pre-Service Teachers and the Web: Does Access to the Web Enhance Creative Thinking about Teaching? Paper to be presented at the 2008 Annual Meeting of the Society for Information Technology and Teacher Education (SITE), Las Vegas, NM.

Foster, A.N., Koehler, M. J. &Mishra, P. (2009). Learning in Games: Constructing, Valuing, and Transferring Disciplinary Knowledge and Skills. Paper presented to the 2010 Annual AERA Meeting, Denver, Colorado, April 30 – May 4.

Foster, A., & Mishra, P. (2009). Disciplinary knowledge construction while playing a simulation strategy game. Paper accepted at the 2009 Society for Information Technology &

Teacher Education International Conference, Charleston, SC. (Invited for Journal Publication)

Malik, Q., Mishra, P., Shanblatt, M. (2008) Identifying Learning Barriers for Non-major Engineering Students in Electrical Engineering Courses", Poster Presentation at ECE Department Annual Poster Presentation 2008, E. Lansing, Michigan.

Malik, Q., Mishra, P., Shanblatt, M. (2009). Learning Barriers in Service Courses – A Case Study, Paper Submitted to 2009 ASEE North Central Section Conference, Grand Rapids, Michigan.

Malik, Q., Koehler, M. J., Mishra, P., Buch, N., & Shanblatt, M. (2009). Understanding Freshman Perceptions about Engineering", Paper Submitted to 2009 ASEE North Central Section Conference, Grand Rapids, Michigan.

Malik, Q., Koehler, M. J., Mishra, P., Buch, N., & Shanblatt, M. (2009). Participation in a Freshman Design Sequence and Its Influence on Student Attitudes Towards Engineering, Paper Abstract Submitted to 39th ASEE/IEEE Frontiers in Education Conference, San Antonio, Texas.

Francis, A.P., and Mishra, P. (April, 2008). Differences in Children's Verbal Responses and Behavioral Interactions with Anthropomorphic Artifacts. Presentation at American Education Research Association Conference. New York City, New York.

Francis, A.P., and Mishra, P. (March, 2008). Why do Some Teachers Trust Digital Technologies and Others Don't? Presentation at Society for Information Technology and Teacher Education International Conference. Las Vegas, Nevada, USA.

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

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.

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

Mishra, P., & Koehler, M.J. (2008, February). Where Technology takes learning to a higher level: TPCK and curricular exemplars. Annual Meeting of the American Association of Colleges of Teacher Education (AACTE), New Orleans.

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

Mishra, P., Koehler, M.J, Kelly, M., Garofalo, J. can Olphen, M., & Colbert, J. (2008, Feb). MAJOR FORUM - When Multiple Technologies Take Learning to a Higher Level: The Technological Pedagogical Content Knowledge (TPCK) Framework and Curricular Exemplars. Major forum presented at the Annual Meeting of the American Association of Colleges for Teacher Education, New Orleans, Feb 7-10, 2008.

Francis, A.P., and Mishra, P. (March, 2008). Why do Some Teachers Trust Digital Technologies and Others Don't? Presentation at Society for Information Technology and Teacher Education International Conference. Las Vegas, Nevada, USA

DeSchryver, M., & Mishra, P. (March, 2008). Googling Creativity: An Investigation of How Preservice Mathematics Teachers Use the Web to Generate Creative Ways to Teach.

Presentation at American Education Research Association Conference. New York City, New York.

Malik, Q., Mishra, P., Shanblatt, M. (2008, October). Work in progress: A case study of perception and learning barriers of students in non-major engineering courses. Paper presented at Frontiers in Education conference, Saratoga Springs, NY.

Malik, Q., Mishra, P., Shanblatt, M. (2008, October). Identifying Learning Barriers for Non-major Engineering Students in Electrical Engineering Courses. Paper presented at North Central Section of the American Association of Engineering Education conference, Wright State University, Dayton OH on Mar 28-29, 2008.

Grosshandler, D. J., Boyer, D. M., Courtad, C. A., Montgomery, C., & Mishra, P. (2007, April). Motivated by design: Making meaning of participant movement in an out-of-school learning environment. Paper presented at the Annual meeting of the American Educational Research Association, Informal Learning Environments Research SIG, Chicago.

Foster, A., Mishra, P., & Koehler, M. (2007, April). Learning physics through playing games: What is learned and How? Paper presented at the 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 to the Annual Meeting of the American Educational Research Association, Chicago, IL.

Mishra, P., & Foster, A. N. (2007, April). What is learning from games? A critical review and directions for future research. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, Il.

Mishra, P., & Foster, A. N. (2007, March). The claims of games: A comprehensive review and future directions. Paper presented at the International Conference for the Society for Information Technology & Teacher Education, San Antonio, TX.

Peruski, L., Mishra, P., & Koehler, M.J. (2007, March). Developing Technological Pedagogical Content Knowledge (TPCK) Through Teaching Online. Paper to be presented to the Annual Meeting of the Society for the Information and Technology & Teacher Education, San Antonio, TX.

Peruski, L., Mishra, P., Rosaen, C., & Koehler, M.J. (2007, March). Boundary Crossings: An Activity Theoretical Analysis of Technology Diffusion in a Teacher Education Program. Paper presented at the Annual Meeting of the Society for the Information and Technology & Teacher Education, San Antonio, TX.

Shi, S., Mishra, P. & Bonk, C.J. (2007, April). Moderating Skills in Synchronous Computer Mediated Discussions. Paper presented at the Annual Meeting of American Educational Research Association (AERA), Chicago, IL.

Courtad, C. A., Boyer, D. M., Montgomery, C., Grosshandler, D. J., & Mishra, P. (2006, November). Analyzing Student Movement as a Cognitive Window when Engaging with Technology. Paper presented at the 29th Annual Teacher Education Division – Technology and Media Division (TED/TAM) Council for Exceptional Children Conference. San Diego, CA.

Foster, A. N., Koehler, M. J, & Mishra, P. (2006, June). Game-based learning of physics content: The effectiveness of a physics game for learning basic physics concepts. Paper accepted at the Annual Meeting of ED-MEDIA, the World Conference on Educational Multimedia, Hypermedia & Telecommunications, Orlando, Florida.

Foster, A. N., & Mishra, P. (2006). What is learning from games? A critical review and direction for future research. Poster presented at the Future Play 2006: The International Academic Conference on the Future of Game Design and Technology, University of Western Ontario, London Covention Center, Canada.

Shi. S, Mishra, P., Bonk, C. J., & He, W. (2006). Instructor Moderation and Student Engagement in Synchronous Computer Conferencing: A Mixed Method Study. Paper presented at the Annual Meeting of American Educational Research Association (AERA), San Francisco, CA.

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.

Mishra, P., & Koehler, M.J. (2005, March). Educational technology by design: Results from a survey assessing its effectiveness. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Phoenix, AZ.

Mishra, P. & Heeter, C. (2005). Gender impacts on game design processes and products: An in-depth analysis of middle school children's conceptualizations of a learning game. Symposium to be presented at the Digital Games Research Association, International Conference. Vancouver, Canada.

Mishra, P., & Koehler, M.J. (2005, March). Educational technology by design: Results from a survey assessing its effectiveness. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Phoenix, AZ.

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

Shi, S., Mishra, P. (2005, under review). Instructor Intervention and Student Engagement in Online Synchronous Instruction. Paper submitted to the American Educational Research Association (AERA) Annual Meeting, Montreal, Canada.

Mishra, P., & Muzaffar, I. (2004). Visions and mandates: An analysis of three Indian IT curriculum guides. Paper presented at an Episteme-1: An international conference to review research on science, technology and mathematics education. December, Goa, India.

Shi, S., Bonk, C. J. & Mishra P. (2004). Explorations into Teacher's Role and Student Engagement in a Unique Synchronous Environment. Paper to be presented at the E-Learn 2004 Conference, Washington, DC.

Shi, S., Mishra, P., Bonk, C. J. (2004). Linkage between Instructor Moderation and Student Behavioral Engagement in Synchronous Computer Conferences. Paper to be presented at the Association for Educational Communications and Technology (AECT) 2004 International Convention, Chicago, IL.

Mishra, P., Girod, M., Zhang, S., & Olson, M. (2004). For the sake of beauty: Aesthetics and the pre-service science teacher. Paper to be presented at the annual meeting of the American Educational Research Association, April 2004, San Diego.

Koehler, M.J., Mishra, P., & Yahya, K. (2004). Successful teaching with technology: The complex interplay of content, pedagogy, and technology. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, March 2004, Atlanta, GA.

Girod, M. & Mishra, P. (2004). Design-based learning and digital video in teacher education. Paper presented at the annual meeting of the American Association for Colleges of Teacher Education. Chicago, IL, February 2004.

Hershey, K., & Mishra, P. (2004). Extending Grice's maxims to computer mediated communication. Paper to be presented at the annual meeting of the American Educational Research Association, April 2004, San Diego.

Shi, S. Mishra, P., Bonk, C.J. & Tan. S (2004). Teacher intervention and Student Engagement in Synchronous Online Discussion. Paper presented at the American Educational Research Association (AERA) Annual Meeting, San Diego, CA

Hershey, K., & Mishra, P., & Altermatt, E. (2004). All or nothing: Levels of sociability of a pedagogical software agent and its impact on perceptions of presence, learning, and motivation. Paper to be presented at the annual meeting of the American Educational Research Association, April 2004, San Diego.

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

Bhatnagar, G., & Mishra, P. (2003). E-Learning opportunities in mathematics: An application of the CPT framework. Paper presented at the International Conference on Educational Technology. Organized by the Integrated Academy of Management and Technology, Ghaziabad, Delhi.

Mishra, P. & the Taleem Group (March, 2003). An analysis of Information Technology Curriculum in Indian Schools. Paper presented at the Annual Conference of the Comparative and International Education Society, New Orleans.

Ferdig, R., Mishra, P., & Schmoyer, M. (2003). Telling Stories with technology: Theories of narrative in commercial storytelling software. Paper presented at the Annual Meeting of the American Educational Research Association. Chicago, April, 2003.

Wells, A., & Mishra, P. (2003). Necessary and sufficient conditions for interactivity. Paper presented at the Annual Meeting of the American Educational Research Association. Chicago, April, 2003.

Peruski, L., & Mishra, P. (2003). Teaching Online: Faculty Transformations in Thinking. Paper presented at the Annual Meeting of the American Educational Research Association. Chicago, April, 2003.

Wong, D., Mishra, P., Koehler, M.J., & Siebenthal, S. (2003). Teacher as Filmmaker: iVideos, Technology Education, and Professional Development. Paper to be presented at the Annual Meeting of the American Educational Research Association. Chicago, April, 2003.

Mishra, P., & Hershey, K. (2002). A framework for designing etiquette for educational technology. Paper presented at the American Association of Artificial Intelligence Fall Symposium on Etiquette in Human-Computer Work. AAAI Press: Washington DC.

Koehler, M.J. Mishra, P., Hershey, K., & Peruski, L. (2002). Learning through design: Faculty development and online course development. Paper presented at the Annual Meeting of the American Educational Research Association. New Orleans, April, 2002.

Koehler, M.J. 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. Presentation to the Instructional Technology Discussion Series. MSU College of Education, Feb, 2002.

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. Paper presented at the Annual Meeting of the Society for Information Technology & Teacher Education, March 2002, Nashville, TN. Virginia: Association for the Advancement of Computing in Education.

Mishra, P., Wallace, R. M. (2002). Teaching as design: Implications for learning to teach with technology. Paper presented at the Annual Meeting of the Society for Information Technology & Teacher Education, March 2002, Nashville, TN. Virginia: Association for the Advancement of Computing in Education.

Mishra, P., & Alvarez-Torres, M. (2001). Psycho-social responses to interactive media: Implications of computer assisted language learning. Paper presented at the presented at the Computer Assisted Language Learning Conference (CALICO).

MSU PT3 Team (2001). Technology and Teacher education: A ecological approach. Paper presented at the Society of Information Technology and Teacher Education. International Conference. Orlando Florida.

Mishra, P., & Koehler, M. (2001). Putting the instructor in charge: Component architecture and the design of a course web site. Paper presented at the Society of Information Technology and Teacher Education. International Conference. Orlando Florida.

Urbain-Lorraine, M., Mishra, P., Koehler, M. J., & Banghart, R. (2001). 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. (April, 2000). Psychological responses to interactive technology: Exploring the educational implications of the Media Equation. Symposium organized at the Annual Meeting of the American Educational Research Association, New Orleans. Chair: Dr. Michael Young (University of Connecticut); Discussant: Dr. Bertram "Chip" Bruce, University of Illinois at Urbana-Champaign. This symposium included 5 presentations on which I was an author.

Mishra, P., Zhao, Y. (2000). Social responses to interactive media: An introduction. Paper presented at the annual meeting of the American Educational Research Association. New Orleans.

Banghart, R., Mishra, P., Dinklage-Travis, H. (2000). Politeness towards computers: A replication study. Paper presented at the annual meeting of the American Educational Research Association. New Orleans.

Ferdig, R. E., Mishra, P., Zhao, Y. (2000). Emotional responses to computers: Experiences in unfairness and spite. Paper presented at the annual meeting of the American Educational Research Association. New Orleans.

Mishra, P., Tan, S., & Zhao, Y. (2000). Dominant and submissive computer programs: What does this mean for the learning experience? Paper presented at the annual meeting of the American Educational Research Association. New Orleans.

Mishra, P., Zhao, Y., & Farmer, S. (2000). Media equation research: What does it imply for the design of educational technology. Paper presented at the annual meeting of the American Educational Research Association. New Orleans.

Alvarez-Torres, M., & Mishra, P. (2000). Computers with accents: Stereotypes, credibility and learning. Paper presented at the annual meeting of the American Educational Research Association. New Orleans.

Zhao, Y. Mishra, P., & Tan, H. S. (2000). The Power of Component Architecture and the Design of Web-based Learning Environments. Paper presented at 4th Global Chinese Conference on Computing in Education. Singapore, May 26-28.

Zhao, Y., Girod, M., & Mishra, P. (2000). Developing School-Based Technology-Rich After-School Learning Environments. Paper presented at the annual meeting of American Educational Research Association, New Orleans, April 24-28.

Mishra, P., & Girod, M. (2000). Designing learning by learning to design: A conversation between a teacher and a researcher. Paper presented at the Annual meeting of the American Educational Research Association. New Orleans.

MSU Faculty development team (2000). Faculty development in the use of technology. Preconference workshop at the AACTE annual conference. Facilitator and Discussant: Carole Ames. Chicago IL , February 26.

Mishra, P. & Spiro, R. (April, 2000). Epistemic beliefs and learning from hypertext: Learning complex concepts in chemistry. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans.

Banghart, R. & Mishra, P. (April, 2000). From evolutionary to educational psychology. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans.

Alvarez-Torres, M. J. & Mishra, P., (April, 2000). Computers with accents: Stereotypes, credibility and learning. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans.

Alvarez-Torres, M. J., Mishra, P., Zhao, Y., & the ETC Group (June, 1999). New media as social actors: Implications for the learning environment. Paper presented at ED-MEDIA conference.

Mishra, P. Farmer, S. Zhao, Y. & ETC. Group (August, 1999). Old brain new media: Expanding the media equation through theory and research. Paper presented at the Cognitive Technologies 99 conference.

Mishra, P. Zhao, Y. & ETC. Group (June, 1999). Ascribing intentionality to interactive media. Paper presented at the Human Behavior and Evolution Society. Utah.

Mishra, P. & Brewer, W. F. (1999). The role of theories in the recall of scientific information. Paper presented at the Annual Meeting of the American Educational Research Association, Montreal.

Zhao, Y., Mishra, P. (1999). Making technology disappear: The design of a technology-rich learning environment for middle school students. Paper presented at the Annual Meeting of the American Educational Research Association, Montreal.

Mishra, P., Zhao, Y., & Tan, S. (1999). From concept to software: Unpacking the black-box of design. Paper presented at the Annual Meeting of the American Educational Research Association, Montreal.

Sawai, S. & Mishra, P. (October 1998). Order and chaos as organizing principles in design. International Visual Literacy Association Conference, University of Georgia, Athens, GA.

Mishra, P. (October 1998). The role of abstraction in scientific illustration: Implications for pedagogy. International Visual Literacy Association Conference, University of Georgia, Athens, GA.

Mishra, P. & Spiro, R. J. (1998, April). Multiple representations of the Periodic System: A cognitively based multimedia hypertext for learning complex concepts in chemistry. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego.

Mishra, P. & Nguyen-Jahiel, K. (1998, April). Reading print and hypertext: Reader stance and its impact on meaning making. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego.

Mishra, P. & Choksi, B. (1998, April). A cognitive perspective on enhancing visual literacy through wordplay. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego.

Mishra, P. (1997, November). Multiple representations of the periodic system of elements: The design and evaluation of a multi-media hypertext. Poster presented at the ACM/IEEE SC97: High Performance Networking & Computing Conference, San Jose, CA.

Mishra, P. (1997, November). Internet in the K-12 classroom: The realities of technology transfer. Invited panel discussant at the ACM/IEEE SC97: High Performance Networking & Computing Conference, San Jose, CA.

Mishra, P. (1997, November). Multiple visual representations of the periodic system of elements: Epistemological and pedagogic implications. Paper presented at the International Visual Literacy Association Conference, State College, PA.

Mishra, P. & Choksi, B. (1997, October). Visual Literacy through Wordplay: Ambigrams in Research and Practice. Workshop at the International Visual Literacy Association Conference, State College, PA.

Mishra, P., Choksi, B., Bafna, S. & Mills, C. A. (1997, October). Creativity at the interface of individuals, tools, & domains. Chair/Organizer for symposium for Interface '97: Twenty-second Annual Humanities and Technology Conference, Atlanta, GA.

Mishra, P. (1997, October). Ambigrams: Visual word-play as a microworld for the study of creativity. Paper presented at Interface '97: Twenty-second Annual Humanities and Technology Conference, Atlanta, GA.

Nguyen, K. & Mishra, P. (1997, March). K-12 teachers and technology: Reflections in a cracked mirror. Symposium on The realities of connecting classrooms to the Internet: Examining teacher expectations and experiences using situated methodologies. Meeting of the American Educational Research Association, Chicago.

Mishra, P. & Nguyen, K. (1996, March) Reading hypertext fiction: The effect of individual beliefs and assumptions about readers, authors and texts. Invited panel discussant at ACM Hypertext 96: The seventh Hypertext Conference. Washington DC.

Mishra, P. & Nguyen, K. (1995, October). Readers reading hypertext. Presentation at the Hypermedia 95 Conference, Indiana University, Bloomington, IN.

Nguyen, K. & Mishra, P. (1995, October). Meaning making in hypertext and printed text reading. Presentation at Interface 95: Twentieth Annual Humanities and Technology Conference,. Atlanta, GA.

Jacobson, M. J., Mishra, P., Ravlin, R., Langley, R., and Spiro, R. J. (1994, September). Hypermedia learning environments, conceptual change and learning complex biological knowledge. Presentation at the European Symposium on Conceptual Change, Jena, Germany.

Jacobson, M. J., Kolar, C., Maouri, C., Mishra, P., & Spiro, R. J. (1994, April). Research into hypertext learning environments: Cognitive flexibility, epistemic beliefs, and knowledge transfer. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Jacobson, M. J., Kolar, C., Langley, R., Levine, B., Maouri, C., Mishra, P., & Spiro, R. J. (1994, February). Cognitive flexibility, epistemic beliefs, and the design of hypertext learning environments: Factors influencing the transfer of complex knowledge. Presentation at the 35th International Conference of the Association for the Development of Computer-Based Instructional Systems, Nashville, Tennessee.

SERVICE

Department

2012-14	Served on Department P&T Committee
2011-15	Faculty advisor for graduate student blog (ideaplay.org)
2009-11	Part of team that developed a new Hybrid Ph.D. program in Educational Technology
2008 -	Director, Master's Program in Educational Technology
2000-04:	Program representative to Departmental Student Progress Review Committee
2004:	Developed first draft of new student progress review system (with Dr. Matthew J. Koehler & Dr. Nell Duke)
2003-05:	Faculty advisor for Developing scholars in Learning, Technology & Culture (DSLTC) Group
2001:	Supported visiting fellow (Rahul Vakil) from National Center for Software Technology, India

Courses developed

CEP818:	Creativity in Teaching & Learning
CEP917:	Knowledge Media Design
CEP956:	Mind Media & Learning
CEP817:	Learning Technology by Design (face to face and online)
TE150:	Reflections on Learning (Online version, with Matthew J. Koehler)
EDT180:	Technology Literacy
DCI691:	Education by design

College

2007-09:	Departmental representative to College of Education's Faculty Advisory Committee
2007-14:	Member of 4 search committees - EPET search, College of Education - Open search, College of Education - Assistant professor in Chinese language learning, College of Education - Assistant or Associate professor in game design and development, Department of Telecommunication, College of Communication Arts and Sciences - Academic specialist, Assistant Dean for International Studies in Education
2007:	Member of task force to enhance national visibility (led by Dr.Markle)
2007:	Member of College of Education, International Task Force, on defining global competence for faculty, graduate students and undergraduate students in the College of Education
2006:	Search committee: Assistant professor, Chinese language learning with technology. Resulted in the hiring of Dr. Chun Lai & Dr. Dongping Zheng
2006:	Member of All College Online Master's degree APPC
2005-07:	Helped organized India-themed breakfast as part of the International Breakfast at the College of Education.
2005-06:	Member of the College's Tenure & Promotion Committee
2004-05:	Member of committee that designed the Excellence in Teaching award for the college of Education. Also served on the search committee for the first year.
2003:	Gave a talk in support of College's fund raising efforts for research
2003-04:	Member of Curriculum Committee, Department of Teacher Education
2001:	Member of committee charged by the Dean to help the College respond to the aftermath of the events of September 11.
2000-06:	Founded and led the Taleem Group, an informal group of faculty and graduate students with interest in education in the Indian sub-continent
1999-02:	Co-taught a series of faculty development courses (with Yong Zhao & Matthew J. Koehler).
1999-01:	Member of the Collaborative Vision on Science and Mathematics Education steering committee.
1999-00:	Member of ad-hoc subcommittee of the TE-APPC on integration of 7th Michigan (technology) standard in the TE curriculum
1999:	Educational Technology faculty College search committee (resulted in the hiring of Dr. Matthew J. Koehler)

1998-99:	Worked with Team IV in Teacher Education program to help students complete their technology requirements.

Additionally I have:

- Served as informal technology consultant to multiple faculty members and graduate students at the college.
- Regular participant in the Trillium, poetry evenings at the College.
- Served on multiple panels on religious diversity for students of CEP/TE240: Diverse learners in a multi-cultural perspective

University

2020-21:	Advanced Leadership Institute, Arizona State University
2018:	Peer Leadership Academy, Arizona State University
2009	Conducted workshop on Creativity & Teaching for Spring Faculty Workshops, for the Office of Faculty & Organizational Development
2005-09:	Served on the advisory board of the Office of Faculty & Organizational Development
2006-09:	Presentation on electronic documentation to the Survive and Thrive in the Tenure System at MSU, workshop
2007-09:	Member of Social Science and Education Review Panel for the Intra-mural Research Grant Competition, Office of the Vice President for Research and Graduate Studies, MSU.
2007:	Helped organize film series to coincide with India Week 07
2006-07:	Served on faculty panel on MSU's new faculty orientation
2006-07:	Mentor to Lilly Fellow, Dr. Mohan Kumar, College of Veterinary Medicine
2006:	Presentation to Lilly Teaching Fellows (with Dr. Doug Luckie) on the Scholarship of Teaching & Learning.
2006:	Member of Teacher Scholar Award Selection committee
2005:	Served on MSU's Boldness by Design Task Force concentrating on the imperative, Enhance the Student Experience
2005-	Board member of India Council, Asian Studies Center, MSU
2005-06:	Mentor to Lilly Fellow, Nicole Ellison, Communication Arts and Sciences
2005-06:	Led a faculty learning circle on MindGames: Teaching and Learning with Games and Simulations (with Dr. Brian Winn)
2004:	Organized (with Dr. Karl Smith) a Lilly Faculty Seminar on Developing Engaging Learning Experiences for Students: Focus On Design Projects.
2004-06:	Faculty advisor for MSU Chapter of ASHA for Education
2002:	Served on the selection committee for Lilly Fellows
2001-04:	Reviewer for Intra-Mural Research Grant competition, office of the Vice President for Research and Graduate Studies, MSU

National

2013 -	Editorial board for International Journal of STEM Education, and Design, Economics and Innovation Quarterly
2007-10:	Chair of Technology and Innovation Committee of the American Association of Colleges of Teacher Education. Helped organize symposium on Digital Technologies & Learning for AACTE annual meeting, as well as Technology & Innovation Award.
2007-08:	Member of National Technology Leadership Summit (NTLS).

2007:	Founded Special Interest Group on Technological Pedagogical Content Knowledge (TPCK) for the Society for Information Technology in Teacher Education (with Dr. Matthew J. Koehler, Dr. Judi Harris; & Dr. Mario Kelly).
2006:	Served as reviewer for special strand on TPCK for the Society for Information Technology in Teacher Education (SITE) annual conference (with Dr. Matthew J. Koehler, Dr. Judi Harris & Dr. Ann Thompson)
2005-	Serve on editorial board of THEN Journal (an online journal on technology and learning)
1998-01:	Consultant with Critical Thinking Books and Software (with Dr. Robert Ennis) for developing software for tests
1998:	Curriculum consultant for NSF funded project for the Physics Department, Miami University

In addition:

- I have served as external reviewer for tenure applications from Mississipi State University, West Virginia University, University of North Carolina, Universiti Pendidikan Sultan Idris (University of Education, Malaysia), Arizona State University, Iowa State University
- I have served as reviewer for the following: Cognition & Instruction, Computers and Education, Cognitive Science, Journal of Visual Literacy, Journal of Applied Social Psychology, Language Learning and Technology, Teachers College Record, and AERA, Division C.
- I help maintain TPCK wiki (at tpck.org), an initiative led by Dr. Matthew J. Koehler

International

2007-09:	Reviewer for Grant program of the Israel Science Foundation.
2008-09:	Guide / mentor for doctoral research students at Singapore University & State University, Istanbul.

2008: External examiner for doctoral research, Macquarie University, Sydney Australia.

2007-09:	Reviewer for Grant program of the Social Science and Humanities Research Council of Canada.
2000 – 2002:	Served on the conference advisory board and the editorial advisory board for the National Resource Center for Online Learning, India. This is a national resource center funded by the Ministry of Information Technology, India and centered in the National Center for Software Technology, Mumbai, India.

Additionally,

- I have served in an advisory capacity with the Masters in Educational Technology, Computer Applications at the SNDT University in Mumbai, India
- I have been an informal consultant with the National Institute of Educational Planning and Administration (NIEPA) in New Delhi. I was asked to provide feedback on a national level project on delivering distance education using satellite communications (The EDU-SAT project).

Community

2005-09:	Served on the committee that helped organize India Week in the greater Lansing area.
2005-06:	Cricket coach for kids summer camp, with Indian Cultural Society
2001:	Organized and conducted workshop Introduction to the Internet for the Indian Women's Association

1999-02:	Outreach committee of the Spartan Child Development Center. Helped set up their websites, print and publicity materials.
1999-	Member of the India Cultural Society and have helped organize various events

In the media

Quoted in Wired magazine story (2015) on minimally invasive learning

Interviewed by Michigan Radio (Stateside with Cynthia Canty) on my exhibition on Deep-Play, creativity, mathematics and visual wordplay.

Interviewed by Educational Technology Journal (2015).

Henriksen & Mishra (2015) article in TCRecord received significant media attention:

- The National Education Association's Magazine NEA Today, included a piece in both the print edition of the magazine for Fall 2015, and in the online edition also: How Teachers Stay Creative in the High-Stakes Testing Era.
- An article in Quartz magazine: America's best teachers use theater and rap to make kids like math
- A piece online in Education Week: Creativity and Making Great Teachers
- Featured piece in a video and interview from Teacher's College Record, in their weekly edition of The Voice
- Noted by Teacher's College Record in the year-in-review portion of their website at the end of December 2015, as one of "The Most Popular of 2015" articles of the year (screen capture of listing available).

New Educator (Fall/Winter, 2008). A wider window: Mixing technology with teaching's truest missions. An article on the TPACK framework.

Distance Education Report (2004, September 15). Learning course design by design. An article on Dr. Koehler and my work on faculty development and online course design.

Lansing State Journal (2003). Kids try space travel at MSU summer camp: Grant funds research on gender and age attitudes, differences. July 27, 2003.

The State News (2003). Children play games, learn at space camp. July 31, 2003.

New Educator (Fall 2003). Out of this world: Students converge at Erickson Hall for two-week camp to help develop a computer game that is out of this world.

New Educator (Fall 2003). Words as art and play.

Archimedes: Puzzles and recreational mathematics (2003, August). Space Mandala design.

Kohinoor Publications (2003). Ambigrams.

ChessWatch.com (2003). Mention of my ambigram work, particularly as related to Chess.

ChessBase.com (2003). Special mention of my ambigram for Fritz (the premier chess-playing computer program).

Chess.fm (internet radio station). My work was used in a radio advertisement for ChessWatch.com

Midday (2003). The Ambigrammist. Also included a special section on my research work. May 25, 2003.

Cziko, G. (2001). The things we do: Using the lessons of Bernard and Darwin to understand what, how, and why of our behavior. Cambridge, MA: MIT Press. My work was used on the cover.

Education and Information Design Consultant

Consultant for Ignite program, Birmingham School District, MI

Consultant for University of Maine, Faculty development program.

Evaluator for Entrepreneurship contest organized by Indian Institute of Technology, Mumbai
Evaluator for logo design contest, Indian School of Business, Hyderabad
Editorial advisory board of Vidyakash News: A publication of the National Resource Center for Online Learning. Published by the National Center for Software Technology, Mumbai, India.
Curriculum consultant, Kids Learning in Computer Klubhouses! Project
Critical Thinking books and software
Curriculum consultant, Physics Department, Miami University, Oxford OH (1998-1999)
Multimedia Consultant, GenScope Project (Summer 1994). Educational Technologies Division, Bolt Beranek & Newman, Cambridge MA
Interface designer, FrontDoor: Internet server (August 1994 - January 1995)
BBN Internet Services, Bolt Beranek & Newman, Cambridge MA
Programmer & interface designer, Interactive Video on Multicultural Awareness (Fall 1991 - Summer 1992). Dept. of Mass Communications, Miami University, Oxford OH
Consultant, Illinois Critical Thinking Project, with Prof. Robert Ennis (1994 - 1996)

Languages
Fluent in English, Hindi & Oriya (spoken)

Personal Interests
Visual wordplay, writing palindromic & children's poetry
Graphic design, typography, 20th century literature