

## CURRICULUM VITAE

### RHONDA WALKER CHRISTENSEN

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h-index = 39

#### EDUCATION

Year	Degree	Major	Institution
Dec. 1997	Ph.D.	Information Science	University of North Texas
1992	M.S.	Computer Education & Cognitive Systems	University of North Texas
1985	B.S.	Educational Curriculum & Instruction - Elementary	Texas A & M University

#### PROFESSIONAL EXPERIENCE

Date	Position	Organization	Location
2017	Research Professor	Learning Technologies, UNT	Denton, TX
June 2016- Dec 2021	Co-PI/Evaluation	NASA Heliophysics Consortium	Denton, TX
Aug 2013 – 2019	Co-PI/Project Director	NSF ITEST Going Green!	Denton, TX
Fall 2013	Instructor	CECS 6511 Online Doctoral Course: Intro. to Research in Learning Technologies	Denton, TX
Sum. 2013	Instructor	CECS 6510 Online Doctoral Course: Analysis of Research Data	Denton, TX
May 2011 – 2012	Co-PI for Research and Evaluation	Gates/EDUCAUSE Validating SimSchool (Wave 1)	Denton, TX
Oct 2010 to Present	Co-PI/Project Coordinator	NSF ITEST FabLab Grant with UVA	Denton, TX
Oct 2008 to 2019	Co-PI/Project Coordinator	NSF ITEST Middle Schoolers Out to Save The World (MSOSW)	Denton, TX
Jan 2012 to Present	Adjunct Instructor	Hybrid Technology Integration Course (LTEC 4100) Learning Technologies Program, UNT	Denton, TX
Sept. 2009 – Aug. 2011	Co-PI for Research and Evaluation	Texas Education Agency ARRA T3	Irving, TX
Sept.2010 – July 2011	Co-PI for Research and Evaluation	Hawaii FIRST ARRA STEM	Hawaii

Nov. 2006 – Aug 2010	PI/Project Director	simMentoring: Guiding Development From Virtual to Real Teaching Dept. of Ed FIPSE	Denton, TX
Sept. 2007 – Aug. 2010	Measurement Specialist	Co-PI/NSF RDE Simulation Enhanced Training for Teachers in Science	Denton, TX
Aug. 2006- May 2010	Instructional Technology Specialist	Good Shepherd Episcopal School	Dallas, TX
Sept. 2003- Aug 2006	Co-PI for External Evaluation	Technology in Teacher Education - Nevada (TITE-N) PT3 grant to Univ. of Nevada-Reno	Denton, TX
Sept. 2000- Aug. 2004	Internal Evaluator Technology Integration Coordinator	Preparing Tomorrow's Teachers To use Technology (PT3) 3-year Implementation grant	Denton, TX
June 2000- May 2004	External Evaluator	Dept. of Ed. KIDS Technology Innovation Challenge Grant (TICG)/UNT contract	Allen, TX
Sept. 1999- Aug. 2000	Internal Evaluator	Preparing Tomorrow's Teachers to use Technology (PT3) Capacity Building grant	Denton, TX
June 1999- May 2000	External Evaluator	Dept. of Ed. KIDS Technology Innovation Challenge Grant (TICG)/UNT contract	Allen, TX
Feb. 1998- Nov. 1998	START Project Director	Texas Center for Educational Technology	Denton, TX
Fall 1997- Spring 2006	Adjunct Instructor	Computers in the Classroom Course (CECS 4100) Computer Education and Cognitive Systems Program, University of North Texas	Denton, TX
Summer 1997	Team Teaching	Internet Navigation Graduate Course (CECS 5420) Computer Education and Cognitive Systems Program, University of North Texas	Denton, TX
1996	Teaching Fellow	Introduction to Computers CECS1100 Computer Education and Cognitive Systems Program, University of North Texas	Denton, TX
1992-1999	Research Associate	Telecommunications & Informatics Lab, Texas Center for Educational Technology and Computer Education & Cognitive Systems University of North Texas	Denton, TX
1993-1996	Teaching Assistant	Technology and Cognition Dept. University of North Texas CECS 1100 and CECS 5250	Denton, TX

1990-1992	Third Grade Teacher	The Lamplighter School	Dallas, TX
1986-1989	Third Grade Teacher	Galveston I.S.D.	Galveston, TX
Summer 1987	Summer School Teacher (Second grade, Chapter One funded)	Galveston I.S.D.	Galveston, TX
Summer 1986	Summer School Teacher (Third grade, Chapter One funded)	Galveston I.S.D.	Galveston, TX

### Other Project Evaluation/Research

Annual Needs Assessment for Carrollton/Farmers' Branch ISD Teachers and Students 2002 – 2011  
 Evaluation of the Maine Learns Laptop Initiative 2002-2005  
 Evaluation of the Irving ISD Technology Immersion Project (TIP) 2004-2006  
 Evaluation of the Irving ISD STAR grant 2007-2009

### Awards/Honors

Awarded the *Journal of Digital Learning in Teacher Education (JDLTE) Outstanding Research Paper Award*. This award is in recognition of the single article from the 2017 volume year with the highest possibility to advance the field of teacher education, based on the criteria of potential impact and contribution, innovativeness, and generalizability or usability.

**Christensen, R.** & Knezek, G. (2017). Validating the technology proficiency self-assessment for 21<sup>st</sup> century learning (TPSA C21) Instrument. *Journal of Digital Learning in Teacher Education, 33(1), 20-31*.  
 DOI:10.1080/21532974.2016.1242391

Awarded a Fulbright Senior Specialist Appointment to work on research with university faculty at Windesheim University in the Netherlands in Fall 2017 and Spring 2018

Outstanding Paper Award. Presented at the Society for Information Technology in Teacher Education (SITE) 2015. **Christensen, R.**, Knezek, G., Alexander, C., Owens, D., Overall, T., & Mayes, G. (2015). Measuring 21<sup>st</sup> century skills in teacher education. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2015* (pp. 1-3). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE). Las Vegas, Nevada.

Research Award Paper from the Society for Information Technology in Teacher Education  
 Mills, L., Wakefield, J., Najmi, A., Surface, D., **Christensen, R.** & Knezek, G. (2011). Validating the Computer Attitude Questionnaire NSF ITEST (CAQ N/I). In *Proceedings of Society for Information Technology & Teacher Education International Conference 2011* (pp. 1572-1579). Chesapeake, VA: AACE.

Best Research Paper for the Teacher Education Special Interest Group at the National Education Computing Conference, June 2007.  
 Hancock, R., Knezek, G., & **Christensen, R.** (2007). Cross-Validating Measures of Technology Integration: A First Step Toward Examining Potential Relationships Between Technology Integration and Student Achievement

Distinguished Paper Award for the Hawaii Educational Research Association.  
 Tyler-Wood, T., Knezek, G., **Christensen, R.**, Morales, C., Dunn-Rankin, P. (2005). Scaling Three Versions of the Stanford-Binet Intelligence Test: Examining Ceiling Effects for Identifying Giftedness. Distinguished Paper Award for the Hawaii Educational Research Association. Presented in the distinguished papers at the American Educational Research Association in Montreal, Canada on April 13, 2005.

Outstanding Paper Award. Presented at the Society for Information Technology in Teacher Education (SITE), Albuquerque, NM, 2003.  
**Christensen, R.** & Knezek, G. Teacher Home Access as a Primary Indicator of Stage of Adoption of Technology.

Best Quantitative Research Studies Award, Presented at the Society for Information Technology in Teacher Education (SITE), Orlando, Florida, April, 1997.  
**Christensen, R.** & Knezek, G. Internal consistency reliabilities for 14 computer attitude scales.

1st runner up in the United States for Operation Success Stories sponsored by the International Federation for Information Processing (IFIP) for Global Classrooms: The Air and Water Projects, Presented at the World Conference on Computers in Education (WCCE), Birmingham, England, July 1995.

## **Membership in Professional Organizations:**

World Education Research Association (WERA)  
International Society for Technology in Education (ISTE)  
Phi Delta Kappa Honor Fraternity (PDK)  
American Educational Research Association (AERA)  
Association for the Advancement of Computing in Education (AACE) – Chair of the STEM Innovation SIG  
Institute of Electrical and Electronics Engineers (IEEE)

## **Publications and Activities**

### **Publications (Refereed Articles):**

- Knezek, G., & Christensen, R. (2020). Researching impact: Measuring technology enhanced outcomes from the NASA Space Science Education Consortium. *Journal of Computers in Mathematics and Science Teaching (JCMST)* 39(4), 399-420.
- Knezek, G., Christensen, R., & Ng, C. (2020). Inspiring STEM engagement: Space science education in the 21<sup>st</sup> century. *Journal of Computers in Mathematics and Science Teaching (JCMST)*, 39(4), 285-290.
- Christensen, R., & Knezek, G. (2020). Connecting students to Mars and stars using innovative technologies. *Journal of Educational Multimedia and Hypermedia*, 29(3), 181-192.
- Christensen, R., & Alexander, C. (2020). Preparing K-12 schools for a pandemic before it occurs. *Journal of Technology and Teacher Education*, 28(2), 261-272.
- Christensen, R., & Knezek, G. (2020). Indicators of middle school students' mathematics enjoyment and confidence. *School Science and Mathematics Journal*, 120(6)
- Knezek, G. & Christensen, R. (2020). Project-based learning for middle school students monitoring standby power: Replication of impact on stem knowledge and dispositions. *Educational Technology Research & Development (ETR&D)*, 68(1), 137-162. <https://doi.org/10.1007/s11423-019-09674-3>
- Knezek, G., & Christensen, R. (2019). Validation of a teacher educator technology competencies survey. *Journal of Technology and Teacher Education*, 27(4), 459-492.
- Alexander, C., Knezek, G., Christensen, R., & Tyler-Wood, T. (2019). Piloting innovative learning experiences: Outcomes of digital fabrication activities across five classrooms. *Journal of Computers in Mathematics and Science Teaching (JCMST)*, 38(2), 115-152.
- Christensen, R., Eichhorn, K., Prestridge, S., Petko, D. Baker, R., Sligte, H., Alayyar, G., & Knezek, G. (2018). Supporting learning leaders for the integration of technology for effective instruction. *Technology, Knowledge and Learning*, 23(3), 457-472. [doi.org/10.1007/s10758-018-9385-9](https://doi.org/10.1007/s10758-018-9385-9)
- Christensen, R. & Knezek, G. (2018). Impact of middle school student project-based energy monitoring activities on climate change beliefs and intentions. *School Science and Mathematics Journal*, 118(1), 43-52.
- Christensen, R. & Knezek, G. (2017). Validating a mobile learning readiness survey: Assessing teachers' dispositions toward adoption. *Journal of Digital Learning in Teacher Education*, 33(4). DOI:10.1080/21532974.2017.1347536

- Christensen, R.** & Knezek, G. (2017). Readiness for integrating mobile learning in the classroom: Challenges, preferences and possibilities. *Computers in Human Behavior* 76, 112-121. doi.org/10.1016/j.chb.2017.07.014
- Christensen, R.** & Knezek, G. (2017). Relationship of middle school student STEM interest to career intent. *Journal of Education in Science, Environment and Health (JESEH)*, 3(1), 1-13.
- Christensen, R.** & Knezek, G. (2017). Validating the technology proficiency self-assessment for 21<sup>st</sup> century learning (TPSA C21) Instrument. *Journal of Digital Learning in Teacher Education*, 33(1), 20-31. DOI:10.1080/21532974.2016.1242391
- Burrows, A.C., Garofalo, J., Barbato, S., **Christensen, R.**, Grant, M., Kinshuk, D., Parrish, J., Thomas, C., Tyler-Wood, T. L. (2017). Editorial: CITE Journal Science Education. *Contemporary Issues in Technology and Teacher Education*, 17(4).
- Knezek, G. & **Christensen, R.** (2016). Extending the Will, Skill, Tool Model of technology integration: Adding pedagogy as a new model construct. *Journal of Computing in Higher Education*, 28(3), 307-325. doi:10.1007/s12528-016-9120-2
- Law, N., Niederhauser, D. S., **Christensen, R.**, & Shear, L. (2016). A multilevel system of quality technology-enhanced learning and teaching indicators. *Educational Technology & Society*, 19(3), 72–83.
- Peterman, K., Kermish-Allen, R., Knezek, G., **Christensen, R.**, & Tyler-Wood, T. (2016). Measuring student career interest within the context of technology-enhanced STEM projects: A cross-project comparison study based on the Career Interest Questionnaire. *Journal of Science Education and Technology*, 25(4), 833-845. DOI:10.1007/s10956-016-9617-5.
- Standish, N., **Christensen, R.**, Knezek, G., Kjellstrom, W., & Bredder, E. (2016). The effects of an engineering design module on student learning in a middle school science classroom. *International Journal of Learning, Teaching and Educational Research*, 15(6), 156-174.
- Knezek, G., **Christensen, R.**, Tyler-Wood, T. & Gibson, D. (2015). Gender differences in conceptualizations of STEM career interest: Complimentary perspectives from data mining, multivariate data analysis and multidimensional scaling. *Journal of STEM Education*, 16(4), 40-46.
- Knezek, G., Hopper, S., **Christensen, R.**, Tyler-Wood, T., & Gibson, D. (2015). Assessing pedagogical balance in a simulated classroom environment. *Journal Digital Learning in Teacher Education*, 31(4), 148-159.
- Christensen, R.**, Knezek, G., & Tyler-Wood, T. (2015). Alignment of hands-on STEM engagement activities with positive STEM dispositions in secondary school students. *Journal of Science Education and Technology* 24(6), 898- 909. Available: <http://dx.doi.org/10.1007/s10956-015-9572-6>
- Christensen, R.** & Knezek, G. (2015). The climate change attitude survey: Measuring middle school student beliefs and intentions to enact positive environmental change. *International Journal of Environmental and Science Education*, 10(5), 773-788.
- Christensen, R.**, Knezek, G., & Tyler-Wood, T. (2015). A retrospective analysis of STEM career interest among mathematics and science academy students. *International Journal of Learning, Teaching and Educational Research*, 10(1), 45-58.
- Christensen, R.**, Knezek, G., & Tyler-Wood, T. (2015). Gender differences in high school dispositions toward science, technology, engineering and mathematics careers. *Journal of Computers in Mathematics and Science Teaching*, 34(4), 395-408.
- Khaddage, F., **Christensen, R.**, Lai, W., Knezek, G., Norris, C. & Soloway, E. (2015). A model driven framework to address challenges in a mobile learning environment. *Education and Information Technologies*, 20(4), 625-640. DOI: 10.1007/s10639-015-9400-x

- Tyler-Wood, T., Estes, M., **Christensen, R.**, Knezek, G., & Gibson, D. (2015). SimSchool: An opportunity for using serious gaming for training teachers in rural areas. *Rural Special Education Quarterly*, 34(3), 17-20. <https://doi.org/10.1177/875687051503400304>
- Christensen, R.**, & Knezek, G. (2014). Comparative measures of grit, tenacity and perseverance. *International Journal of Learning, Teaching and Educational Research*, 8(1), 16-30.
- Christensen, R.**, Knezek, G., & Tyler-Wood, T. (2014). Student perceptions of Science, Technology, Engineering and Mathematics (STEM) content and careers. *Computers in Human Behavior*, 34, 173-186. <http://dx.doi.org/10.1016/j.chb.2014.01.046>
- Christensen, R.**, Knezek, G., Tyler-Wood, T., & Gibson, D. (2014). Longitudinal analysis of cognitive constructs fostered by STEM activities in middle school students. *Knowledge Management and ELearning*, 6(2), 103-122.
- Tyler-Wood, T., Knezek, G., **Christensen, R.**, Morales, C. & Dunn-Rankin, P. (2014). Scaling three versions of the Stanford-Binet intelligence test: Examining ceiling effects for identifying giftedness. *Educational Research*, 5(2), 42-51.
- Alexander, C., Knezek, G., **Christensen, R.**, Tyler-Wood, T. & Bull, G. (2014). The impact project-based learning on pre-service teachers' attitudes and skills. *Journal of Computers in Mathematics and Science Teaching*, 33(3), 257-282.
- Knezek, G., **Christensen, R.**, Tyler-Wood, T., & Periathiruvadi, S. (2013). Impact of environmental power monitoring activities on middle school student perceptions of STEM. *Science Education International*. 24(1), 98-123.
- Christensen, R.**, Knezek, G., Tyler-Wood, T. & Gibson, D. (2011). SimSchool: An online dynamic simulator for enhancing teacher preparation. Invited paper. *International Journal of Learning Technology*, 6(2). 201-220.
- Knezek, G., **Christensen, R.**, & Tyler-Wood, T. (2011). Contrasting perceptions of STEM content and careers. *Contemporary Issues in Technology and Teacher Education*, 11(1). Retrieved from <http://www.citejournal.org/vol11/iss1/general/article1.cfm>
- Shattuck, D., Corbell, K. A., Osborne, J., Knezek, G., **Christensen, R.**, Grable, L. L. (2011). Measuring teacher attitudes toward instructional technology: A confirmatory factor analysis of the TAT and TAC. *Computers in the Schools*, 28(4), 291-315.
- Tyler-Wood, T., Knezek, G., & **Christensen, R.** (2010). Instruments for assessing interest in STEM content and careers. *Journal of Technology and Teacher Education*, 18(2), 341-363.
- Christensen, R.W.** & Knezek, G.A. (2009). Construct validity for the teachers' attitudes toward computers questionnaire. *Journal of Computing in Teacher Education*, 25(4), 143-155.
- Knezek, G. & **Christensen, R.** (2009). Preservice educator learning in a simulated teaching environment. In (Ed.) C. Maddux *Research Highlights in Technology and Teacher Education 2009*, 161-170.
- Knezek, G., & **Christensen, R.** (2008). Effect of technology-based programs on first and second grade reading achievement. *Computers in the Schools*, 24(3/4), 23-41.
- Morales, C., Knezek, G., & **Christensen, R.** (2008). Self-efficacy ratings of technology proficiency among teachers in Mexico and Texas. *Computers in the Schools*, 25(1/2), 126-144.
- Christensen, R.** & Knezek, G. (2007). Pathway for preparing tomorrow's teachers to use technology. *Computers in the Schools*. 23(3/4), 1-21.
- Hancock, R., Knezek, G., & **Christensen, R.** (2007). Cross-Validating Measures of Technology Integration: A First Step Toward Examining Potential Relationships Between Technology Integration and Student Achievement. *Journal of Computing in Teacher Education*, 24(1), 15-21.

- Knezek, G., **Christensen, R.**, Bell, L., & Bull, G. (2006). Identifying Key Research Issues. *Learning and Leading with Technology*, 33(8), 18-20.
- Owen, A., Farsaii, S., Knezek, G., & **Christensen, R.** (December/January 2005-06). Teaching in the One-to-One Classroom. *Learning and Leading with Technology*, 33(4), 12-16.
- Christensen, R.**, Overall, T., Knezek, G. (2006). Personal educational tools (PETs) for Type II Learning. *Computers in the Schools*, 23(1/2), 173 - 189.
- Christensen, R.**, Knezek, G., & Overall, T. (2005). Transition points for the gender gap in computer enjoyment. *Journal of Research on Technology in Education*, 38(1), 23- 37.
- Muir, M., Knezek, G., & **Christensen, R.** (2004). The Power of One to One: Early Findings from the Maine Learning Technology Initiative. *Learning and Leading with Technology*, 32(3), 6-11.
- Christensen, R.** (2002). Impact of technology integration education on the attitudes of teachers and students. *Journal of Research on Technology in Education*, 34 (4), 411-434.
- Knezek, G. & **Christensen, R.** (2002). Impact of new information technologies on teachers and students. *Education and Information Technologies*, 7(4), 369-376.
- Christensen, R.**, & Knezek, G. (2001). Instruments for assessing the impact of technology in education. *Computers in the Schools*, 18(2/3/4), 5-25.
- Christensen, R.** & Knezek, G. (2001). Profiling teacher stages of adoption for technology integration. *Computers in New Zealand Schools*, 13(3), 25-29.
- Christensen, R.** & Knezek, G. (2001) Strategies for Integrating Technology into the Classroom. *Tecnologia y Comunicacion Educativas*, 33, ILCE-Mex. Enero-Junio 2001, pp.29-38.
- Morales, C., Knezek, G., **Christensen, R.**, & Avila, P. (2001). Impact of new technologies on teaching and learning. *Tecnologia y Comunicacion Educativas*, 14(32), 36-43.
- Christensen, R.**, & Knezek, G. (2000). Internal consistency reliabilities for 14 computer attitude scales. *Journal of Technology and Teacher Education*. 8(4), 327-336.
- Knezek, G., & **Christensen, R.** (2000). Attitudinal differences among integrated computing and traditional computer literacy students in the USA. *Education Y Nuevas Tecnologias*, Mexico.
- Knezek, G., Muta, H., Voogt, J., **Christensen, R.**, Moore, D., Southworth, J., Tada, M., & Jones, G. (2000). Information and communication technologies in hands-on science: Emerging trends across three nations. *Journal of Computers in Mathematics and Science Teaching*, 19(3), 277-295.
- Morales, C., Knezek, G., **Christensen, R.**, & Avila, P. (Eds.) (2000). *Impact of new technologies on teaching and learning*. Mexico City, Mexico: Instituto Latinoamericano de la Comunicacion Educativa (ILCE).
- Christensen, R.** & Knezek, G. (1999). Stages of Adoption for technology in education. *Computers in New Zealand Schools*, 11 (4), pp.25-29.
- Knezek, G. & **Christensen, R.** (1997). Global interactions among elementary school classrooms: The Air and Water Projects in *Website International Buyer's Guide*. London: Kensington Publications.
- Christensen, R.**, Knezek, G., & Campbell, N. (1995). Global interactions among elementary school classrooms: The air and water projects. *Telecommunications in Education News (T.I.E.)*, 7(4), 17-22.

### **Publications (Chapters in Books):**

- Tondeur, J., Petko, D., Barma, S., **Christensen, R.**, Drossel, K., Eichhorn, K., Knezek, G., Mukama, E., Schmidt-Crawford, D., Starkey, L., & Nleya, P. Th. (2020). Advancing Conceptual Models of Technology Integration in Education: Implications for Researchers, Practitioners and Policymakers. In P. Fisser & M. Phillips (Eds.), *Learners and Learning Contexts: New Alignments for the Digital Age*. Report of EDUsumMIT 2019 (pp. 70–75). Quebec, CA.  
[https://edusummit2019.fse.ulaval.ca/files/edusummit2019\\_ebook.pdf](https://edusummit2019.fse.ulaval.ca/files/edusummit2019_ebook.pdf)
- Knezek, G. A., & **Christensen, R.** (2018). *Developing an Understanding of the Impact of Digital Technologies on Teaching and Learning in an Ever-Changing Landscape*. Springer International Handbooks of Education.
- Christensen, R.**, & Knezek, G. A. (2018). *Measuring teacher attitudes, competencies, and pedagogical practices in support of student learning and classroom technology integration* In J. Voogt, G. Knezek, R. Christensen, & K-W Lai (Eds.). Springer International Handbooks of Education.
- Knezek, G. A., & **Christensen, R.** (2018). *Section Introduction: Attitudes, Competencies, and Dispositions for Teaching and Learning with Information Technology*. In J. Voogt, G. Knezek, R. Christensen, & K-W Lai (Eds.). Springer International Handbooks of Education.
- Knezek, G. A., & **Christensen, R.** (2018). *The Evolving Role of Attitudes and Competencies in Information and Communication Technology in Education*. In J. Voogt, G. Knezek, R. Christensen, & K-W Lai (Eds.). Springer International Handbooks of Education.
- Christensen R.**, & Knezek G. (2018). Measuring teacher attitudes, competencies, and pedagogical practices in support of student learning and classroom technology integration. In J. Voogt, G. Knezek, R. Christensen, & K-W. Lai. (Eds.) *Second Handbook of Information Technology in Primary and Secondary Education*. Springer International Handbooks of Education. Springer, Cham. DOI [https://doi.org/10.1007/978-3-319-53803-7\\_21-1](https://doi.org/10.1007/978-3-319-53803-7_21-1)
- Knezek G., **Christensen R.** (2018) Section Introduction: Attitudes, Competencies, and Dispositions for Teaching and Learning with Information Technology. In J. Voogt, G. Knezek, R. Christensen, & K-W. Lai. (Eds.) *Second Handbook of Information Technology in Primary and Secondary Education*. Springer International Handbooks of Education. Springer, Cham. (pp.239-253). DOI [https://doi.org/10.1007/978-3-319-53803-7\\_98-1](https://doi.org/10.1007/978-3-319-53803-7_98-1)
- Christensen, R.** (2015). Research in Schools. In J.M. Spector (Ed.), *Encyclopedia of Educational Technology*. Thousand Oaks, CA: Sage Publications, pp. 624-627. [doi.org/10.4135/9781483346397.n257](https://doi.org/10.4135/9781483346397.n257)
- Christensen, R.** & Knezek, G. (2015). Active learning approaches to integrating technology into middle school science classrooms: Reconceptualizing a middle school science curriculum based on 21st century skills. In X.Ge, D. Ifenthaler, & J.M. Spector (Eds.). *Full Steam Ahead: Emerging Technologies for STEAM*. New York: Springer Academic.
- Meritt, J., Gibson, D., **Christensen, R.**, & Knezek, G. (2015). Teacher training using interactive technologies: Performance and assessment in second life and simschool. In P. Isaías, J. M. Spector, D. Ifenthaler, & D. Sampson (Eds.), *E-learning systems, environments and approaches: Theory and implementation*. New York: Springer.
- Christensen, R.** & Knezek, G. (2014). Measuring Technology Readiness and Skills. J. M. Spector, M. D. Merrill, J. Elen, and M. J. Bishop (Eds.) *Handbook of Research on Educational Communications and Technology* (4th ed.) Springer Academic.
- Knezek, G. & **Christensen, R.** (2014). Tools for Analyzing Quantitative Data. J. M. Spector, M. D. Merrill, J. Elen, and M. J. Bishop (Eds.) *Handbook of Research on Educational Communications and Technology* (4th ed.) Springer Academic.
- Mills, L., Wakefield, J., Najmi, A., Surface, D., **Christensen, R.** & Knezek, G. (2009). Validating the Computer Attitude Questionnaire NSF ITEST (CAQ N/I). In M. Bhattacharya & P. Kommers (Eds.). 2009. *The Connected Learning Space*. AACE.



- Christensen, R.** & Knezek, G. (2008). Self-Report Measures and Findings for Information Technology Attitudes and Competencies. In J. Voogt and G. Knezek (Eds.) *International Handbook of Information Technology in Primary and Secondary Education*. Springer International Handbooks of Education, 349-365.
- Knezek, G. & **Christensen, R.** (2008). The importance of information technology attitudes and competencies in primary and secondary education. In J. Voogt and G. Knezek (Eds.). *International Handbook of Information Technology in Primary and Secondary Education*, 321-331.
- Hancock, R., Knezek, G. & Christensen, R. (2005). Constructivist methodologies in technology integration: The role of interactive multimedia in expanding pedagogy within the will, skill, tool model. In C. Morales, G. Knezek, R. Christensen and P. Avila (Eds.) *The Will, Skill, Tool Model of Technology Integration. A Conceptual Approach to Teaching and Learning with Technology*. Mexico City, Mexico: Instituto Latinoamericano de la Comunicacion Educativa, 89-119.
- Christensen, R.**, Parker, D. & Knezek, G. (2005). Advances In Preservice Educator Competence And Confidence In Technology Integration: Comparative Findings From Two Pt3 Projects. In *Integrated Technologies, Innovative Learning: Insights from the PT3 Program* (S. Rhine & M. Bailey (Eds). Eugene, OR: ISTE.
- Knezek, G., **Christensen, R.**, Morales, C., Overall, T. (2003). In Kelly, MG & McAnear, A. (Eds.). (2003). *National educational technology standards for teachers: Resources for assessment* (pp. 95-97). Eugene, OR: ISTE.
- Christensen, R., & Knezek, G. (2002). Instruments for assessing the impact of technology in education. In L. Liu, L. Johnson, C. Maddux and N. Henderson (Eds.). *Evaluation and Assessment in Educational Information Technology*. New York, NY: The Haworth Press, Inc.
- Christensen, R.**, & Knezek, G. (2001). Stages of adoption as a measure of technology integration. In C. Morales, G. Knezek, R. Christensen, & P. Avila, (Eds.). *Users' views of new information technologies in education: Studies from multiple nations* (pp. 11-22). Mexico City: Instituto Latinoamericano de la Comunicacion Educativa (ILCE).
- Christensen, R.**, & Knezek, G. (2001). The technology in education competency survey (TECS): A standards-based self-appraisal instrument. In C. Morales, G. Knezek, R. Christensen, & P. Avila, (Eds.). *Users' views of new information technologies in education: Studies from multiple nations* (pp. 23-28). Mexico City: Instituto Latinoamericano de la Comunicacion Educativa (ILCE).
- Christensen, R.**, & Knezek, G. (2001). Profiles of teacher attitudes for progressive stages of technology integration. In C. Morales, G. Knezek, R. Christensen, & P. Avila, (Eds.). *Users' views of new information technologies in education: Studies from multiple nations* (pp. 97-108). Mexico City: Instituto Latinoamericano de la Comunicacion Educativa (ILCE).
- Fluke, R., Knezek, G., & **Christensen, R.** (2001). Reconfirmation of the association between the Young Children's Computer Inventory (YCCI) and the Computer Attitude Questionnaire (CAQ). In C. Morales, G. Knezek, R. Christensen, & P. Avila, (Eds.). *Users' views of new information technologies in education: Studies from multiple nations* (pp. 29-41). Mexico City: Instituto Latinoamericano de la Comunicacion Educativa (ILCE).
- Knezek, G., & **Christensen, R.** (2001). Technology-related skills and attitudes among elementary and secondary education students in Texas. In C. Morales, G. Knezek, R. Christensen, & P. Avila, (Eds.). *Users' views of new information technologies in education: Studies from multiple nations* (pp. 147-186). Mexico City: Instituto Latinoamericano de la Comunicacion Educativa (ILCE).
- Knezek, G., & **Christensen, R.** (2001). Impact of new information technologies on teachers and students. In C. Morales, G. Knezek, R. Christensen, & P. Avila, (Eds.). *Users' views of new information technologies in education: Studies from multiple nations* (pp. 245-254). Mexico City: Instituto Latinoamericano de la Comunicacion Educativa (ILCE).

Knezek, G., **Christensen, R.**, & Fluke, R. (2001). A longitudinal study of student attitudes and attributes related to computers and education, 1991-2000. In C. Morales, G. Knezek, R. Christensen, & P. Avila, (Eds.). *Users' views of new information technologies in education: Studies from multiple nations* (pp. 215-232). Mexico City: Instituto Latinoamericano de la Comunicacion Educativa (ILCE).

**Christensen, R.**, & Knezek, G. (2000). Global classrooms: The air and water projects. In *Classroom Connect*. Lancaster, PA: Wentworth Worldwide Media, Inc.

## **Books (Published)**

Voogt, J., Knezek, G., Christensen, R., & Lai, Kwok-Wing. (Eds.) (2018). *2<sup>nd</sup> Handbook of Information Technology in Primary and Secondary Education*, Springer.

Hettler, L., Gibson, D., **Christensen, R.**, Zibit, M. (2007). *simMentoring: Guiding development from virtual to real teaching!* (2008). CurveShift: Stowe, VT

Morales, C., Knezek, G., **Christensen, R.**, & Avila, P. (Eds.). (2005). *The will, skill, tool model of technology integration. A conceptual approach to teaching and learning with technology*. Mexico City, Mexico: Instituto Latinoamericano de la Comunicacion Educativa.

Morales, C., Knezek, G., **Christensen, R.**, & Avila, P. (2001). *Users Views of New Information Technologies in Education: Studies from Multiple Nations*. Mexico City: Instituto Latinoamericano de la Comunicacion Educativa (ILCE).

**Christensen, R.**, & Knezek, G. (2001). *Equity and diversity in K-12 applications of information technology: Key instructional design strategies (KIDS) project findings for 2000-2001, Year Two Report*. Denton, TX: Institute for the Integration of Technology into Teaching and Learning (IITTL).

Knezek, G., & **Christensen, R.** (2000). *Refining best teaching practices for technology integration: KIDS project findings for 1999-2000*. Denton, TX: Institute for the Integration of Technology into Teaching and Learning (IITTL).

Knezek, G., **Christensen, R.**, Miyashita, K., & Ropp, M. (2000). *Instruments for assessing educator progress in technology integration*. Denton, TX: Institute for the Integration of Technology into Teaching and Learning (IITTL).

Knezek, G., **Christensen, R.**, & Miyashita, K. (2000). *Instruments for assessing attitudes toward information technology (2nd ed.)*. [Online]. Denton, TX: Institute for the Integration of Technology into Teaching and Learning (IITTL). Available: <http://www.iittl.unt.edu/IITTL/instruments/index.htm>.

Morales, C., Knezek, G., **Christensen, R.**, & Avila, P. (2000). *Impact of new technologies on teaching and learning*. Mexico City: Instituto Latinoamericano de la Comunicacion Educativa (ILCE).

**Christensen, R.**, Campbell, N., Clayton, G., & Knezek, G. (1994). *Global Classrooms: A Study of Water (A Curriculum & Technology Infusion Guide)*. Denton, TX: Texas Center for Educational Technology.

**Christensen, R.**, Campbell, N., Clayton, G., & Knezek, G. (1994). *Global Classrooms: A Study of Air (A Curriculum & Technology Infusion Guide)*. Denton, TX: Texas Center for Educational Technology.

**Christensen, R.**, & Knezek, G. (1994). *An Internet Quick Reference Guide*. Denton, TX: Texas Center for Educational Technology.

## **Editorials:**

Burrows, A., Garofalo, G., Barbato, S., Christensen, R., Grant, R., Kinshuk, Parrish, J., Thomas, C., Tyler-Wood, T. (2017). Editorial: CITE Journal Science Education (3.0). *Contemporary Issues in Technology in Education*,

17(4). Retrieved from <http://www.citejournal.org/volume-17/issue-4-17/science/editorial-cite-journal-science-education-3-0>.

### **Activities/Service:**

Consultative Council Assistant Chair for the Society of Information Technology in Teacher Education (SITE) (2020-2023)

Co-Chair STEM Innovation Special Interest Group (SIG) for the Society of Information Technology in Teacher Education (SITE) (2019-2021)

Elevate TXEd Ambassador (invited October 2020) - a bottom-up initiative stemming leveraging a collective voice to raise the profile of teachers and education in the state of Texas.

Co-editor for the 2<sup>nd</sup> edition of the International Handbook on Information Technology in Primary and Secondary Education. Published in 2018

Ed Media + Innovate Learning (EDIL) Exec. Committee, *AACE* (2018 – 2020)

Editorial Review Boards: Journal of Technology in Teacher Education (JTATE) and Journal of Research on Technology in Education (JRTE)

EduSummit: International Summit on ICT in Education Thematic Working Group 3 Leader: Professional Development in IT for Learning Leaders; Bulgaria, September 2017

Chair, Information Technology Council for the Society of Information Technology in Teacher Education (SITE). (2014 - 2018)

Co-Chair for The Rapport Society – Dean’s Leadership Council for the Texas A&M College of Medicine. (2014-2016).

Co-editor for Research Highlights in Technology and Teacher Education 2017. (ISBN: 978-1-939797-30-8). Waynesville, NC: AACE.

Co-editor for Research Highlights in Technology and Teacher Education 2016. (ISBN 978-1-9397-9726-1)Waynesville, NC: AACE.

Reviewer for journals: Education and Information Technologies (EAIT), Educational Studies, Journal of Education in Mathematics, Science and Technology (IJEMST), International Journal of Learning, Teaching and Educational Research (IJLTER), Handbook of Research on Educational Communications and Technology, Journal of Science Education and Technology (JOST)

Review board member for the Journal of Research on Technology in Education (JRTE) 2016 - current

Reviewer for paper submissions to the Society for Information Technology in Teacher Education for two decades

National Technology Leadership Summit Strand Leader for Replication Studies, October 1-2, 2015

Advisory Board Member, National Marrow Donor Program Be the Match’s Diversity Advisory Group (2015 - )

National Science Foundation Review panel for ITEST grants, April 2014.

Co-Chair Research and Evaluation SIG for the Society of Information Technology in Teacher Education (SITE). (2004 – 2008; 2012 - 2014)

EduSummit: International Summit on ICT in Education Thematic Working Group 7 Leader: Indicators of Quality Technology-enhanced Teaching and Learning; Participant 2015, Bangkok, Thailand

EduSummit: International Summit on ICT in Education Thematic Working Group 2: Advancing mobile learning across formal and informal contexts; Participant 2013, Washington DC.

EduSummit: International Summit on ICT in Education Thematic Working Group 2: Advancing learning across formal and informal contexts; Presenter 2009, The Hague.

Chair of the Research and Evaluation SIG for the Society of Information Technology in Teacher Education (SITE). (2008 – 2012). Review and decide on more than 100 papers each year for the annual conference. Led the SIG in research and evaluation initiatives such as an instrument repository for sharing with colleagues.

Founding co-chair of the Be the Match on campus at University of North Texas campus (2010 – 2014)

Invited participant in the “Invitational Summit on Redefining Teacher Education for Digital-Age Learners (2010) resulting in “A Call to Action: The Summary Report of the Invitational Summit on Redefining Teacher Education for Digital-Age Learners” 2011, The Learning Center, Austin, TX: The University of Texas at Austin. Available from [www.redefineteachered.org](http://www.redefineteachered.org)

Section Co-Editor for Chapter 4 of the International Handbook for Information Technology in Education. Published by Springer in 2008.

Guest Co-editor for a special edition of Computers in the Schools on Evidence-based Research on Technology in Education Volume 24 (3/4), 2007.

Co-coordinator of the Research Questions for Curriculum Connections for the National Technology Leadership Summit. Washington, DC, September 22, 2005.

External Evaluator for a Technology Integration Project (TIP) grant in Irving ISD, 2004-2006.

External Evaluation for the Beyond Hardware Initiative (BHI) in Carrollton Farmers Branch ISD 2002 – 2006.

External Evaluation for the Maine Learning with Laptop Initiative, 2003 – 2005.

Review Panel for PT3's 2001 Implementation Grant interim reports (2002)

Intel Preservice Teach to the Future Master Teacher (2001-2003)

American Educational Research Association Technology as an Agent of Change in Teaching and Learning (TACTL) SIG founding officer (web administrator), 2002.

Project Coordinator for 13 participating classrooms including the United States, Canada, South Africa, Russia and others. The Water Project and The Air Project, 2000-01.

Project Coordinator for 11 participating classrooms including the United States, Canada, South Africa, and others. The Water Project and The Air Project, 1999-2000.

Invited expert for Leadership Symposium for the Texas Computer Education Association (TCEA) Annual Conference, February 1999.

Selected for Apple Computer's PROVOCATION '98: Apple Education Research Leadership Forum, California, January 1999.

Manuscript reviewer for The Journal of Computers in Mathematics and Science (JCMST) special issue, January, 1999.

Project Coordinator for many participating classrooms including the United States, Australia, Canada, South Africa, and others The Water Project and The Air Project, 1998-99.

Visiting Faculty Scholar to Ana G. Mendez University, Puerto Rico. (1998). 2 day Instructional Technology Workshops. Curriculum for Technology Integration, Electronic Resources for 21st Century Faculty. August, 1998.

Paper Reviewer for the International Telecommunications in Education (Tel•Ed) Conference (1998).

Math, Science and Technology Fair Judge. Dallas Public Schools. February, 1998.

Project Coordinator for 48 participating classrooms including the United States, Australia, South Africa, Saudi Arabia, and others The Water Project and The Air Project, 1997-98.

Virtual Visits Program Co-Chair for the Telecommunications in Education (Tel-Ed) Conference, Austin, Texas, November, 1997.

Technology Integration Education for Keyes Elementary School in Irving Texas. Two-day intensive and then on-going technology integration training for 1996-97 school year.

Project Coordinator for fifty participating schools in the United States, Canada, New Zealand, Australia, Mexico, Finland, South Africa and the United Kingdom, The Water Project and The Air Project, 1996-97.

Project Coordinator for forty-four participating schools in the United States, Canada, New Zealand, Bermuda, Australia, South Africa and the United Kingdom, The Water Project and The Air Project, 1995-96.

Project Coordinator for thirty-two participating schools in the United States, Canada, New Zealand, Israel, Australia and the United Kingdom, The Water Project and The Air Project, 1994-95.

Project Coordinator for ten participating schools in the United States, Australia and the United Kingdom, The Water Project and The Plants & Animals Project, 1993-94.

Project Coordinator for thirteen participating schools in the United States, Australia and New Zealand, The Water Project and The Air Project, 1992-93.

Project Participant with schools in the United States, the United Kingdom and New Zealand in a curriculum-based telecommunications pilot project, 1991-92.

## Presentations and Conference Proceedings

**Christensen, R. & Knezek, G. (2020).** Adapting Innovative Technology Activities for Remote Learning Opportunities. In *Proceedings of SITE Interactive Online 2020 Conference* (pp. 297-298). Association for the Advancement of Computing in Education (AACE).

**Christensen, R., Knezek, G., & Collum, D. (2020).** Using Simulation Based Learning to Increase Multicultural Awareness in Educators. In *Proceedings of SITE Interactive Online 2020 Conference* (pp. 102-106). Association for the Advancement of Computing in Education (AACE).

Trevisan, O., Knezek, G., De Rossi, M., Grion, V., & **Christensen, R. (2020).** Technology and Distance Teaching during the COVID-19 Pandemic: Deriving Constructs from an International Higher Education Survey. In *Proceedings of SITE Interactive Online 2020 Conference* (pp. 194-200). Association for the Advancement of Computing in Education (AACE).

**Christensen, R., Jin, Y., Graziano, K.J., & Trust, T. (2020).** Where Do Edtech, Equity, & Privacy Fit within Methods Courses? In *Proceedings of SITE Interactive Online 2020 Conference* (pp. 94-95). Association for the Advancement of Computing in Education (AACE).

**Christensen, R. & Knezek, G. (2020).** Connecting Students to Mars and Stars using Innovative Technologies. In *Proceedings of EdMedia + Innovate Learning* (pp. 190-198). Online, The Netherlands: Association for the Advancement of Computing in Education (AACE). Retrieved June 27, 2020 from <https://www.learntechlib.org/primary/p/217305/>.

Tondeur, J., Howard, S., Knezek, G., Voogt, J., Ifenthaler, D., Gibson, D., Petko, D., Smits, A., Forkosh-Baruch, A., Phillips, M., Slighte, H., Shonfeld, M. & **Christensen, R. (2020).** Research-Based Implications for Policy and Practice: Outcomes from EDUsummIT 2019 (Quebec) – The 6th International Summit on Information Technology in Education. In *Proceedings of EdMedia + Innovate Learning* (pp. 429-432). Online, The

- Netherlands: Association for the Advancement of Computing in Education (AACE). Retrieved June 27, 2020 from <https://www.learntechlib.org/primary/p/217340/>.
- Furuta, T., Knezek, G. & **Christensen, R.** (2020). Implications of Hands-on Technological Creation Experiences and TPACK Assessments for Preservice Teacher Education. In *Proceedings of EdMedia + Innovate Learning* (pp. 338-341). Online, The Netherlands: Association for the Advancement of Computing in Education (AACE). Retrieved June 27, 2020 from <https://www.learntechlib.org/primary/p/217326/>.
- Langran, E., Searson, M., Knezek, G. & **Christensen, R.** (2020). AI in teacher education. In D. Schmidt-Crawford (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 735-740). Online: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/215821/>.
- Christensen, R.**, Cline, T., Odenwald, S., Thomas, A. & Knezek, G. (2020). Using Innovative Technologies to Support STEM Teaching and Learning. In D. Schmidt-Crawford (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 865-868). Online: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/215839/>.
- Collum, D., **Christensen, R.**, Delicath, T., & Knezek, G. (2020). Measuring changes in educator bias in a simulated learning environment. In G. H. Marks & D. Schmidt-Crawford (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 410-416). Online: Association for the Advancement of Computing in Education (AACE). Retrieved April 13, 2020 from <https://www.learntechlib.org/primary/p/215788/>.
- Foulger, T.S., Graziano, K.J., Schmidt-Crawford, D.A., Slykhuis, D.A., Chang, Y.L., **Christensen, R.**, Dillon, D.R., Heath, M.K., Knezek, G., Krutka, D.G., Parrish, A.H., Sadera, W.A. & Thomas, A. (2020). Fostering new research following the Teacher Educator Technology Competencies (TETCs): Research from the JTATE special issue, preparing all teacher educators to support teacher candidates' integration of technology. In D. Schmidt-Crawford (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 425-432). Online: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/215777/>.
- Shonfeld, M., Knezek, G., Starkey, L., **Christensen, R.**, Henriksen, D., Henderson, M., Williamson-Leadley, S., Ng, C.Y., Butler, D., Leahy, M., Twinning, P., Phillips, M. & Yildiz, M. (2020). EDUsummIT Symposium SITE 2020 - Learners and learning contexts: New alignments for the digital age. In G. H. Marks & D. Schmidt-Crawford (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 831-834). Online: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/215852/>.
- Knezek, G., & **Christensen, R.** (2020). Space science summer camps: Innovative technologies for STEM enrichment. Paper presented to the 18<sup>th</sup> Annual Hawaii International Conference on Education (HICE), Honolulu, HI.
- Christensen, R.**, & Knezek, G. (2019, November). *Navigating life in the digital age: New challenges for current and future generations*. Keynote presentation to the International Congress: From Teaching Machines to Machine Learning, Padova, Italy.
- Knezek, G.A. & **Christensen, R.** (2019). Space science activities to enhance middle school students' interest in STEM: Follow-up assessment of disposition retention. In S. Carliner (Ed.), *Proceedings of E-Learn: World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education* (pp. 850-859). New Orleans, Louisiana, United States: Association for the Advancement of Computing in Education (AACE).
- Christensen, R.**, Knezek, G., Hobbs, F., Kelley, J., Den Lepcha, S., Dong, D., Liu, S., Wang, K., Yotchoum Nzia, H.A. & Kelley, D. (2019). Creating technology enriched activities to enhance middle school students' interest in STEM. In J. Theo Bastiaens (Ed.), *Proceedings of EdMedia + Innovate Learning* (pp. 1326-1334). Amsterdam, Netherlands: Association for the Advancement of Computing in Education (AACE).
- Christensen, R.** & Knezek, G. (2019). Changes in cognitive knowledge structures during an online educational technology course. In J. Theo Bastiaens (Ed.), *Proceedings of EdMedia + Innovate Learning* (pp. 388-395). Amsterdam, Netherlands: Association for the Advancement of Computing in Education (AACE).
- Furuta, T., Otomo, K., Knezek, G. & **Christensen, R.** (2019). Preliminary analysis of an instrument to assess computational thinking skills in Japanese junior high students. In J. Theo Bastiaens (Ed.), *Proceedings of EdMedia + Innovate Learning* (pp. 326-330). Amsterdam, Netherlands: Association for the Advancement of Computing in Education (AACE).
- Voogt, J., Knezek, G., **Christensen, R.**, Tondeur, J., Ifenthaler, D. & Eickelmann, B. (2019). Core themes in the second international handbook of Information Technology in Primary and Secondary Education: A bird's

- eye view. In J. Theo Bastiaens (Ed.), *Proceedings of EdMedia + Innovate Learning* (pp. 488-493). Amsterdam, Netherlands: Association for the Advancement of Computing in Education (AACE).
- Knezek, G. & **Christensen, R.** (2019). Predictors of STEM career interest among middle school students: Implications for educational reform, policy, and innovation. In J. Theo Bastiaens (Ed.), *Proceedings of EdMedia + Innovate Learning* (pp. 614-619). Amsterdam, Netherlands: Association for the Advancement of Computing in Education (AACE).
- Christensen, R.**, & Knezek, G. (2019). *Technology proficiencies among teachers: Impact of teaching level, classroom access, use and support for learning*. Paper presented to the American Educational Research Association Convention, Toronto, CA, April, 2019.
- Christensen, R.** (2019). *Preparing for life in a digital world: Citizenship and digital health*. Invited presentation to the Theory of Intercultural Communication Masters' Seminar. University of Florence, April, 2019.
- Knezek, G. & **Christensen, R.** (2019). A Preliminary analysis of the teacher educator technology competency survey. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1174-1180). Las Vegas, NV, United States: Association for the Advancement of Computing in Education (AACE).
- Furuta, T., Knezek, G., & **Christensen, R.** (2019). Bridging the gap between computational thinking and the integration of ICT into classroom teaching and learning: A barrier to be addressed. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1160-1162). Las Vegas, NV, United States: Association for the Advancement of Computing in Education (AACE).
- Collum, D., **Christensen, R.**, Delicath, T., & Johnston, V. (2019). SimSchool: SPARCing new grounds in research on simulated classrooms. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 733-739). Las Vegas, NV, United States: Association for the Advancement of Computing in Education (AACE).
- Voogt, J., Knezek, G., **Christensen, R.**, & Lai, K-W. (2019). Cross-cutting themes from the second international handbook of information technology in education: Implications for information technology in teacher education. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 918-920). Las Vegas, NV, United States: Association for the Advancement of Computing in Education (AACE).
- Christensen, R.**, Knezek, G., Cline, T. & Ng, C. (2019). Using Innovative Technologies to Increase Middle School Students' Interest in Space Science. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1002-1007). Las Vegas, NV, United States: Association for the Advancement of Computing in Education (AACE). Retrieved October 14, 2019 from <https://www.learntechlib.org/primary/p/207768/>.
- Christensen, R.** (2019). *Creating leaders who focus on the future*. Invited presentation to the International Technology Education Meeting (ITEM), London, January 22-25, 2019.
- Ng, C., Cline, T., Knezek, R., **Christensen, R.**, Garrison, L., Maryboy, N., Begay, D. (2018). Empowering diverse minors to learn science with NASA's STEM Innovation Lab. Presentation to the American Geophysicists Union (AGU) Annual Conference, Washington, DC.
- Knezek, G., & **Christensen, R.** (2018). NASA avenues for promoting interest in space science among middle school students. Poster presented to the American Geophysicists Union (AGU) Annual Conference, Washington, DC.
- Christensen, R.** & Knezek, G. (2018). The relationship of mathematics enjoyment and confidence to interest in a STEM career. The importance of the "M" in STEM. In *Proceedings of the 117<sup>th</sup> Annual School Science and Mathematics Association Convention*, Little Rock, AR.
- Knezek, G. & **Christensen, R.** (2018). NASA Education: Middle school initiatives for earth rise and touch the sun. Presentation to the School Science and Mathematics Association Convention, Little Rock AR.
- Christensen, R.** & Knezek, G.A. (2018). *Innovative learning with technologies: Implementing curricula and measuring impact on students*. Invited presentation to Windesheim University, Zwolle, the Netherlands, Netherlands. (May 23, 2018).
- Christensen, R.**, Knezek, G., den Lepcha, S., Dong, D., Liu, S., Wang, K., Wu, A. & Yotchoum Nzia, H.A. (2018). Outcomes from technology enhanced informal learning activities to increase middle school students' interest in STEM. In T. Bastiaens, J. Van Braak, M. Brown, L. Cantoni, M. Castro, R. Christensen, G. Davidson-Shivers, K. DePryck, M. Ebner, M. Fominykh, C. Fulford, S. Hatzipanagos, G. Knezek, K. Kreijns, G. Marks, E. Sointu, E. Korsgaard Sorensen, J. Viteli, J. Voogt, P. Weber, E. Weippl & O. Zawacki-Richter (Eds.), *Proceedings of EdMedia: World Conference on Educational Media and Technology* (pp. 1368-1377). Amsterdam, Netherlands: Association for the Advancement of Computing in Education (AACE).

- Farjon, D., Smits, A., Voogt, J., Knezek, G., **Christensen, R.**, Petko, D., Prasse, D., Tondeur, J., Scherer, R., Siddiq, F., Valtonen, T., Sointu, E. & van Braak, J. (2018). Factors affecting pre- and in-service use of technology in teaching: Implications for research and practice – Part 1 and Part 2. In T. Bastiaens, J. Van Braak, M. Brown, L. Cantoni, M. Castro, R. Christensen, G. Davidson-Shivers, K. DePryck, M. Ebner, M. Fominykh, C. Fulford, S. Hatzipanagos, G. Knezek, K. Kreijns, G. Marks, E. Sointu, E. Korsgaard Sorensen, J. Viteli, J. Voogt, P. Weber, E. Weippl & O. Zawacki-Richter (Eds.), *Proceedings of EdMedia: World Conference on Educational Media and Technology* (pp. 604-607). Amsterdam, Netherlands: Association for the Advancement of Computing in Education (AACE).
- Knezek, G.A., Voogt, J., **Christensen, R.**, Eichhorn, K., Sligte, H., Baker, R., Petko, D., Shonfeld, M., Smits, A., Ifenthaler, D., Webb, M., Tondeur, J. & Howard, S. (2018). Research-Based Implications for Policy and Practice: Outcomes from EduSummIT 2017 – The Fifth International Summit on Information Technology in Education – Part 1. In T. Bastiaens, J. Van Braak, M. Brown, L. Cantoni, M. Castro, R. Christensen, G. Davidson-Shivers, K. DePryck, M. Ebner, M. Fominykh, C. Fulford, S. Hatzipanagos, G. Knezek, K. Kreijns, G. Marks, E. Sointu, E. Korsgaard Sorensen, J. Viteli, J. Voogt, P. Weber, E. Weippl & O. Zawacki-Richter (Eds.), *Proceedings of EdMedia: World Conference on Educational Media and Technology* (pp. 783-788). Amsterdam, Netherlands: Association for the Advancement of Computing in Education (AACE).
- Knezek, G.A. & **Christensen, R.** (2018). Learner Attributes and Technology-Enriched Environments Associated with Positive Climate Change Attitudes and Energy and Environmental Science Knowledge in Middle School Students. In T. Bastiaens, J. Van Braak, M. Brown, L. Cantoni, M. Castro, R. Christensen, G. Davidson-Shivers, K. DePryck, M. Ebner, M. Fominykh, C. Fulford, S. Hatzipanagos, G. Knezek, K. Kreijns, G. Marks, E. Sointu, E. Korsgaard Sorensen, J. Viteli, J. Voogt, P. Weber, E. Weippl & O. Zawacki-Richter (Eds.), *Proceedings of EdMedia: World Conference on Educational Media and Technology* (pp. 1736-1743). Amsterdam, Netherlands: Association for the Advancement of Computing in Education (AACE).
- Knezek, G. & **Christensen, R.** (2018). Innovative technologies to encourage interest in space science: Impact of solar eclipse activities on Students. Poster presented to the American Educational Research Association annual convention, New York City, NY.
- Furuta, T., Fujiki, M., Knezek, G. & **Christensen, R.** (2018). Assessing Motivations for Learning Informatics and Possible Influences of Parents' Interests in Technology among Japanese Junior High Students. In E. Langran & J. Borup (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 865-869). Washington, D.C., United States: Association for the Advancement of Computing in Education (AACE). Retrieved April 1, 2018 from <https://www.learntechlib.org/p/182631/>.
- Knezek, G. & **Christensen, R.** (2018). Capitalizing on informal learning opportunities to enhance formal learning in classroom environments. In E. Langran & J. Borup (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1865-1871). Washington, D.C., United States: Association for the Advancement of Computing in Education (AACE). Retrieved April 1, 2018 from <https://www.learntechlib.org/p/182791/>.
- Voogt, J., Lai, K.W., Knezek, G., **Christensen, R.**, Forkosh Baruch, A., Grinshkun, V., Grigoryev, S., Shonfeld, M., Smits, A., Henrikson, D., Henderson, M., Uvarov, A., Philips, M., Webb, M., Niederhauser, D., Mishra, P., Leahy, M. & Butler, D. (2018). Rethinking Learning in the Digital Age – Implications for Teacher Education. In E. Langran & J. Borup (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1023-1027). Washington, D.C., United States: Association for the Advancement of Computing in Education (AACE). Retrieved April 1, 2018 from <https://www.learntechlib.org/p/182658/>.
- Christensen, R.** & Knezek, G. (2018). Relationship among student classroom use of technology for learning and teacher home use of technology, teacher level of technology integration and number of years of participation in a STEM program. Paper presented to the Hawaii International Conference on Education, Honolulu, HI.
- Christensen, R.**, & Knezek, G. (2018). Comparing climate change attitudes among four different educational groups. Poster presented to the Hawaii International Conference on Education, Honolulu, HI.
- Knezek, G., **Christensen, R.**, Polk, T., & Hobbs, F. (2018). Comparing content knowledge with perceptions of solar eclipses and space science: A study of three middle school student groups. Poster presented to the Hawaii International Conference on Education, Honolulu, HI.
- Knezek, G. & **Christensen, R.** (2017). A preliminary study of STEM dispositions among preservice teacher candidates in the United States of America (USA) and the People's Republic of China (PRC). Paper presented to the World Educational Research Association conference, Hong Kong.



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June 30, 2008, San Antonio, TX
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- Hancock, R., **Christensen, R.**, & Knezek, G. (2007). Cross-validating Technology Implementation Measures and Student Achievement. Paper presentation to the National Educational Computer Conference (NECC), Atlanta, Georgia, June 25, 2007.
- Tyler-Wood, T., Knezek, G. & **Christensen, R.** (2007). Demographic, Learning Style, and Attitude towards Technology Differences Between Online and Face-to-Face Students in an Introductory Level Special Education Course. In R. Carlsen et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2007* (pp. 526-529). Chesapeake, VA: AACE. Retrieved from <http://www.editlib.org/p/24594>.
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- Christensen, R.** (2006). Learning with the Brain in Mind: His and Hers. Presentation to the faculty and staff of Good Shepherd Episcopal School, November 29, 2006.
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- Muir, M., Owen, A., Knezek, G., **Christensen, R.**, Soloway, E., Norris, C., Albion, P. & Gibson, I. (2006). Lessons Learned from 1-to-1 Laptop Initiatives: Reflections on the Critical Components. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2006* (pp. 4366-4371). Chesapeake, VA: AACE. Retrieved from <http://www.editlib.org/p/22794>.
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- Knezek, G. & **Christensen, R.** (2006). IT Competencies and Attitudes: A Worldwide Perspective. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2006* (pp. 1671-1676). Chesapeake, VA: AACE.
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- Muir, M. M., Knezek, G. A., **Christensen, R.R.** (2005). An Exploratory Study of the Impact of Ubiquitous Technology on Student Attitudes, Technology Skills, and Achievement. Presented to the American Educational Research Association Annual Meeting in Montreal, Canada, April 2005.
- Tyler-Wood, T., Knezek, G., **Christensen, R.**, Morales, C., Dunn-Rankin, P. (2005). Scaling Three Versions of the Stanford-Binet Intelligence Test: Examining Ceiling Effects for Identifying Giftedness. Distinguished Paper Award for the Hawaii Educational Research Association. Presented at HERA in Hawaii in January 2005 and in the distinguished papers at the American Educational Research Association in Montreal, Canada on April 13, 2005.
- Knezek, G., **Christensen, R.**, Mayes, G., & Morales, C. (2005). A Comparison of Self-Report and Observer Ratings of Educator Technology Integration Proficiency. Presented to the Society for Information Technology in Teacher Education (SITE) in Phoenix, AZ.
- Knezek, G., **Christensen, R.**, Magoun, D., Owens, C. (2005). Commonalities in Professional Development and Research Designs: Setting the Stage for Cross-Project Findings from NSF ITEST Activities. Presented to the Society for Information Technology in Teacher Education (SITE) in Phoenix, AZ.
- Owen, A., Knezek, G., & **Christensen, R.** (2005). Teaching and learning in a one-to-one environment. Presentation to the Texas Computer Education Association 25th Annual Convention, Austin, TX.
- Tyler-Wood, T., Knezek, G., **Christensen, R.**, & Morales, C. (2005). *A Comparison of Three Versions of the Stanford-Binet Intelligence Test: Are we Shortchanging the Gifted?* Paper presented to the Third Annual Hawaii International Conference on Education, Waikiki, Hawaii.
- Tyler-Wood, T., Knezek, G., & **Christensen, R.** (2005). *Bringing Up Girls in Science*. Paper presented to the Third Annual Hawaii International Conference on Education, Waikiki, Hawaii.
- Christensen, R.** (2004). Scientifically-based Research: A practical approach for complying with NCLB. Invited panel presentation to the Dept. of Education's Preparing Tomorrow's Teachers to Use Technology (PT3) Annual meeting, Atlanta, Georgia.
- Southworth, J., Knezek, G., **Christensen, R.**, Hvorecky, J. (2004). Assessing Distance Learning - Enrichment (DL-E) Activities. In L. Cantoni & C. McLoughlin (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2004*. Chesapeake, VA: AACE.
- Tyler-Wood, T., Knezek, G. & **Christensen, R.** (2004). Barriers to Teaching with Technology for Alternative Certification Teachers. In L. Cantoni & C. McLoughlin (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2004* (pp. 3209-3214). Chesapeake, VA: AACE.
- Christensen, R.**, Parker, D. & Knezek, G. (2004). *Advances in Preservice Educator Competence and Confidence in Technology Integration*. Paper presented to the American Educational Research Association.
- Ewing-Taylor, J., Overall, T., **Christensen, R.** & Knezek, G. (2004). *Technology Integration Proficiencies in Frontier Rural versus Non-Frontier Rural Teachers*. Paper presented to the American Educational Research Association.
- Christensen, R.** & Knezek, G. (2004). Validating a Handheld Computing Self-Efficacy Scale. In R. Ferdig, C. Crawford, R. Carlsen, N. Davis, J. Price, R. Weber & D. Willis (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2004* (pp. 879-884). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Knezek, G. & **Christensen, R.** (2004). Impact of technology-intensive professional development on classroom gains in reading achievement. In R. Ferdig et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2004* (pp. 2339-2346). Chesapeake, VA: AACE. Retrieved from <http://www.editlib.org/p/14798>.
- Owens, C., Magoun, D., Knezek, G. & **Christensen, R.** (2004). The effects of distance learning on the attitudes of elementary age children: Year 2, a follow-up study. In R. Ferdig et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2004* (p. 2994). Chesapeake, VA: AACE. Retrieved from <http://www.editlib.org/p/13306>.
- Christensen, R.** (2003). *Scientifically-Based Research for KIDS*. Invited panelist for the PT3 Catalyst Leadership Retreat. Washington, D.C.
- Christensen, R.**, & Knezek, G. (2003). Teacher home access as a primary indicator of stage of adoption of technology. Society for Information Technology and Teacher Education International Conference, Vol. 2003, Issue. 1, 2003, pp. 867-870. (Award winning paper)



- Knezek, G., **Christensen, R.**, & Dunn-Rankin, P. (2003). A Scaling analysis of reading difficulty passages for first and second grade students. Presentation to the Hawaii Educational Research Association, Honolulu, HI.
- Knezek, G., **Christensen, R.** & Fluke, R. (2003). Testing a Will, Skill, Tool Model of Technology Integration. Paper presented to the American Educational Research Association Annual Meeting. Chicago, Illinois, April 22, 2003.
- Knezek, G., **Christensen, R.**, Morales, C., & Overall, T. (2003). GP3: An Instrument for Self-Appraisal of General Preparation in Technology for Prospective Teachers. Presentation to the Society for Information Technology in Teacher Education (SITE), Albuquerque, New Mexico. March 29, 2003.
- Knezek, G., **Christensen, R.**, Morales, C., Avila, P. (2003). Trans-national trends in technology integration: PLANIT project findings for 2000-2003, part 2. Society for Information Technology and Teacher Education International Conference, Vol. 2003, Issue. 1, 2003, pp. 740-741.
- Hancock, R., Knezek, G. & **Christensen, R.** (2003). The Expanded Will, Skill, Tool Model: A step toward developing technology tools that work. World Conference on Educational Multimedia, Hypermedia and Telecommunications, Vol. 2003, Issue. 1, 2003, pp. 1415-1422.
- Knezek, G., **Christensen, R.**, Bradley, J., Scannell, P. & Langford, J. (2003). Construct Validity for the World Wide Web Attitude Scale. In D. Lassner & C. McNaught (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2003* (pp. 1143-1149). Chesapeake, VA: AACE. Retrieved November 19, 2013 from <http://www.editlib.org/p/13964>.
- Christensen, R.**, & Knezek, G. (2002, June). Intel Preservice Teach to the Future at University of North Texas. Presented to the National Education Computer Conference, San Antonio, TX.
- Knezek, G., & **Christensen, R.** (2002, June). Trans-Project Data Sharing and Feedback Based on Common Assessment Instruments: Trends Across PT3 Technology Integration Grants. Spotlight Research Presentation.
- Christensen, R.**, & Knezek, G. (2002). Advancing teachers through stages of adoption of technology in the classroom. In Jerry Willis, Jerry Price, & Niki Davis (Eds.) *Technology and Teacher Education Annual 2002*. Charlottesville: Association for the Advancement of Computing in Education.
- Knezek, G., & **Christensen, R.** (2002). Influence of home access on attitudes, skills, and level of use for teachers and students in technology integrating classrooms. In Jerry Willis, Jerry Price, & Niki Davis (Eds.) *Technology and Teacher Education Annual 2002*. Charlottesville: Association for the Advancement of Computing in Education.
- Knezek, G., **Christensen, R.** (2001, July). Contributions of new information technologies and student achievement: selected findings from five years of studies in the USA. Presentation to the 26th World Conference on Computers in Education, Copenhagen, Denmark.
- Knezek, G. & **Christensen, R.** (2001). Impact of New Information Technologies on Teachers and Students. In *World Conference on Computers in Education*. Amsterdam: Kluwer, 163-169.
- Christensen, R.**, Knezek, G., et.al. (2001, July). Global classrooms in review: a tenth anniversary reflection on the air/water projects. Presentation to the 26th World Conference on Computers in Education, Copenhagen, Denmark
- Christensen, R.** (2001). The Technology in Education Competency Survey (TECS): A self-appraisal instrument for NCATE standards. In Jerry Price, Jerry Willis, DeeAnna Willis, & Niki Davis (Eds.) *Technology and Teacher Education Annual 2001*, pp. 2290-2295. Charlottesville: Association for the Advancement of Computing in Education.
- Knezek, G. & **Christensen, R.** (2001). Evolution of an online data acquisition system. In Jerry Price, Jerry Willis, Dee Anna Willis, & Niki Davis (Eds.) *Technology and Teacher Education Annual 2001* pp. 1999-2001. Charlottesville: Association for the Advancement of Computing in Education.
- Knezek, G., & **Christensen, R.** (2001). Teacher and student attitudes toward computers, 1999-2000: Findings from a suburban Texas school district. In Jerry Price, Jerry Willis, Dee Anna Willis, & Niki Davis (Eds.) *Technology and Teacher Education Annual 2001*, pp. 1284-1285. Charlottesville: Association for the Advancement of Computing in Education.
- Morales, C., Magoun, D., Owens, C., Knezek, G., & **Christensen, R.** (2001). Findings from the Project for the Longitudinal Assessment of New Information Technologies (PLANIT): 2000-2001. In Jerry Price, Jerry Willis, Dee Anna Willis, & Niki Davis (Eds.) *Technology and Teacher Education Annual 2001*. Charlottesville: Association for the Advancement of Computing in Education.
- Tyler-Wood, T., **Christensen, R.**, Allen, J., Arrowood, D., & Maldonado, M. (2001). Implementing technology into preservice teacher education courses: PT3 first year accomplishments. In Jerry Price, Jerry Willis, Dee Anna Willis, & Niki Davis (Eds.) *Technology and Teacher Education Annual 2001*, pp. 1282-1290. Charlottesville: Association for the Advancement of Computing in Education.
- Morales, C., Knezek, G., **Christensen, R.**, Alamhaboub, S., Moonen, B., Voogt, J., Owens, C., Magoun, D. (2001,

- July). Impact of new information technology on education: Project PLANIT. Panel presentation to the 26th World Conference on Computers in Education, Copenhagen, Denmark
- Christensen, R.**, Griffin, D., Knezek, G. (2001). Measures of teacher stages of technology integration and their correlates with student achievement. Paper presented to the American Association of Colleges for Teacher Education 53<sup>rd</sup> Annual Meeting and Exhibit, Dallas, Texas.
- Knezek, G., **Christensen, R.**, Zoeller, M., & Griffin, D. (2001). Experiences with Online Data Acquisition. Presentation to the Texas Computer Education Association Annual Conference, Austin, Texas.
- Holcomb, T., Knezek, G., & **Christensen, R.** (2000). Getting Grants: Simple title, hard work. Invited paper presented to the Consortium of College and University Media Centers (CCUMC), Denton, Texas.
- Rodgers, B., Clark, T., Knezek, G., & **Christensen, R.** (2000). Authentic implementation evaluations: Formative evaluation in practice. Presented to the OERI Evaluators' Meeting, Ann Arbor, MI.
- Knezek, G., **Christensen, R.**, Hancock, R. & Shoho, A. (2000). Toward a structural model of technology integration. A paper presented to the Hawaii Educational Research Association Annual Conference, Honolulu, HI.
- Christensen, R.** & Knezek, G. (2000) Strategies for Integrating Technology into the Classroom. Paper presented to the Symposium: Integrating Technology in the Classroom: Assessment Alternatives and Strategies for Professional Development at the Society for Information Technology and Teacher Education (SITE) International Conference, San Diego, California.
- Knezek, G., **Christensen, R.** & Voogt, J. (2000) Options for assessing educator progress in teacher education. Paper presented to the Symposium: Integrating Technology in the Classroom: Assessment Alternatives and Strategies for Professional Development at the Society for Information Technology and Teacher Education (SITE) International Conference.
- Christensen, R.**, & Knezek, G. (2000). Advancement of student technology integration skills through university preservice coursework. In Dee Anna Willis, Jerry Price & Jerry Willis (Eds.) *Technology and Teacher Education Annual 2000 - Vol. 2*. Charlottesville: Association for the Advancement of Computing in Education, 1505-1510.
- Christensen, R.** & Knezek, G. (1999). Preservice vs. inservice educators' attitudes toward information technology. In Jerry Price, Jerry Willis, Dee Anna Willis, Muktha Jost, & Stephanie Boger-Mehall (Eds.) *Technology and Teacher Education Annual 1999 - Vol. 2*. Charlottesville: Association for the Advancement of Computing in Education, 1319-1322.
- Knezek, G., **Christensen, R.**, Gilmore, E., Kim, H., Magoun, A., Owens, C., Morales, C., Moonen, B., & Voogt, J. (1999). Teacher and student attitudes toward information technology in four nations. In J. Price, J. Willis, D. Willis, M. Jost, & S. Boger-Mehall, (Eds.), *Technology and Teacher Education Annual 1999* (pp. 916-918). Charlottesville, VA: Association for the Advancement of Computing in Education.
- Christensen, R.**, Arrowood, D., Knezek, G., Gelpman, J. & Overall, T. (1999). A Robot's View of Reality: Children Learning from and Through the Topological Panorama Camera. In *Proceedings of International Conference on Mathematics / Science Education and Technology 1999* (p. 425). AACE.
- Christensen, R.** & Knezek, G. (1998). Parallel forms for measuring teachers' attitudes toward computers. In *Teacher and Teacher Education Annual 1998*. Charlottesville: Association for the Advancement of Computing in Education.
- Knezek, G. & **Christensen, R.** (1998). Internal consistency reliability for the teachers' attitudes toward information technology questionnaire. In *Teacher and Teacher Education Annual 1998*. Charlottesville: Association for the Advancement of Computing in Education.
- Knezek, G. & **Christensen, R.** (1998). Technology and Education: Are we preparing our teachers to be as computer literate as our students? Presentation to the National Association of State Directors of Teacher Education and Certification National Conference, Memphis, TN.
- Knezek, G. & **Christensen, R.** (1998). Technology Applications TEKS for High School. Presented to Region 10s High School Computer Teachers Conference, Richardson, TX.
- Box, K., Knezek, G., **Christensen, R.**, & Arrowood, D. (1998). Experiences from a University course delivered via the World Wide Web. Presentation to Tel-Ed '98, New Orleans, LA, October, 1998.
- Christensen, R.**, & Knezek, G. (1998). WWW and Multimedia Support for Technology Applications Curricula in Texas. Presentation to Tel-Ed '98, New Orleans, LA, October, 1998.
- Christensen, R.**, Knezek, G., & Smolka, J. (1998). Invited Model Classroom presentation, Water: Flowing into all Disciplines. Tel-Ed, New Orleans.
- Christensen, R.** Integrating the Internet into Instruction. Teacher workshop (1 days) Preston Hollow Elementary, Dallas ISD, August, 1998

- Reinken, C. & **Christensen, R.** (1998). TIF-TECH Training for Administrators. One day workshop, Abilene, TX, August, 1998.
- Christensen, R.** & Knezek, G. (1998). Technology Applications TEKS for Teachers. Presented to the SCR\*TEC Summer Institute, College Station, TX, July, 1998.
- Christensen, R.** & Knezek, G. (1998). Integrating Technology into the Classroom: One day staff development workshops. Rhodes Middle School, San Antonio, TX, January, 1998, June, 1998.
- Knezek, G., Rodgers, B., & **Christensen, R.** (1998). START Resources for Integrating Technology into the Curriculum. Presentation to the Governor's Conference on Science, Technology and Mathematics Education, Austin, TX, June, 1998.
- Christensen, R.**, Kahan, K., & Knezek, G. (1998). Technology Applications TEKS START Package. Presentation to the Governor's Conference on Science, Technology and Mathematics Education, Austin, TX, June, 1998.
- Christensen, R.** (1998). Sharing Technology Applications Resources with Teachers (START) Curriculum Connections. Presentation to the Center for Reading and Language Arts conference. University of Texas, Austin, TX, June, 1998.
- Christensen, R.** Integrating the Internet into Instruction. Teacher workshop (1 day) Good Shepherd Episcopal School, Dallas, TX, June, 1998
- Knezek, G. & **Christensen, R.** Integrating Technology into the Classroom. 1 day workshop. Region 9 Online Consortium. Wichita Falls, May 13, 1998.
- Christensen, R.** & Knezek, G. (1998). Technology TEKS for Texas Teachers. Presentation to the Association of Texas Professional Educators Annual Conference, Ft Worth, TX, April, 1998.
- Christensen, R.** & Knezek, G. (1998). Sharing Technology Applications Resources with Teachers (START). Presentation to Region 10's Technology Planning Conference, April, 1998.
- Christensen, R.** Integrating the Internet into Instruction. Teacher workshop (2 days) Carroll ISD April, May 1998.
- Knezek, G., & **Christensen, R.** (1998). Research Initiatives. Presented to the TCET Board of Directors, April 29, 1998, Dallas, TX.
- Kahan, K., Mihalik, K., **Christensen, R.**, Knezek, G., Jolly, D., Davis, T., Nolan, S., Lanclos, P., (1998). One day TEKS Implementation Workshop. Texas Center for Educational Technology Symposium, Dallas, TX, April, 1998.
- Canaday, K., **Christensen, R.**, Knezek, G., & Kahan, K. (1998). TCEA 98 START presentation TCEA February, 1998.
- Christensen, R.** Word processing, Advanced Word Processing and PowerPoint Presentations. Teacher workshop (1 day) Good Shepherd Episcopal School, Dallas, TX, January, 1998.
- Christensen, R.**, & Knezek, G. (1997). Internal consistency reliabilities for 14 computer attitude scales. In *Teacher and Teacher Education Annual*, J. Willis, J. Price, S. McNeil, B. Robin, & D. Willis (Eds) *Teacher and Teacher Education Annual 1997*. Charlottesville: Association for the Advancement of Computing in Education.
- Christensen, R.** Integrating the Internet into Instruction. Teacher workshop (2 days) Bells ISD August, 1997 (Consultant for Prentice-Hall).
- Christensen, R.** Integrating the Internet into Instruction. Teacher workshop (2 days) Carroll ISD July, 1997.
- Knezek, G., & **Christensen, R.** Curricular Components for Global Classrooms. Presentation to the Summer Connections Conference, Austin, Texas, July, 1997.
- Knezek, G., **Christensen, R.**, Mortensen, M., & Jones, G. Planning the Instructional Component for Global Classrooms. Curriculum Integration Workshop (full day) for TCET's 21st Century Teaching and Learning Symposium, Dallas, Texas, May 1997.
- Christensen, R.**, Knezek, G., & Hamala, D. New resources for global classrooms. Presentation to the Seventh Annual Texas Computer Association Education State Conference, Austin, Texas, February, 1997.
- Knezek, G., & **Christensen, R.** Instruments for assessing attitudes toward information technology. Presentation to the Seventh Annual Texas Computer Association Education State Conference, Austin, Texas, February, 1997.
- Knezek, G. & **Christensen, R.** (1997). Changes in teacher attitudes during information technology training in J. Willis, J. Price, S. McNeil, B. Robin, & D. Willis (Eds) *Teacher and Teacher Education Annual 1997*. Charlottesville: Association for the Advancement of Computing in Education.
- Christensen, R.** & Knezek, G. (1996). Global classrooms in perspective: Reflecting on five years of the air and water projects. In *Proceedings of the Ed-Telecom World Conference on Educational Telecommunications*, Boston, MA.
- Christensen, R.**, & Knezek, G. Resources for Global Classrooms. Presented to the Telecommunications in Education International Conference, Monterey, Mexico, December, 1996.

- Knezek, G. & **Christensen, R.** Assessing teacher and student attitudes toward information technology. Presentation to the 21st Century Teaching and Learning Symposium, Dallas, Texas, May, 1996.
- Knezek, G., & **Christensen, R.** (1996). E-mail metrics: It is better to give than to receive. In *Proceedings of the Ed-Media World Conference on Educational Multimedia and Hypermedia*, Boston, MA, June, 1996.
- Knezek, G., **Christensen, R.**, & Hamala, D. Telecommunications Tools. Presentation to the 21st Century Teaching and Learning Symposium, Dallas, Texas, May, 1996.
- Christensen, R.**, Hamala, D., & Knezek, G. Global Classroom Series. Presentation to the 21st Century Teaching and Learning Symposium, Dallas, Texas, May, 1996.
- Knezek, G. & **Christensen, R.** ITI Project Update (Information Technology Impact). Presentation to the Texas Center for Educational Technology Board, May, 1996.
- Christensen, R.**, Hamala, D., Knezek, G., & Lucas, L. Telecommunications Tools. Presentation to the Texas Computer Education Association (TCEA) 16th Annual Conference, Austin, Texas, February, 1996.
- Moore, D., Knezek, G., & **Christensen, R.** Hands-On Science. Presentation to the Texas Computer Education Association (TCEA) 16th Annual Conference, Austin, Texas, February, 1996.
- Christensen, R.**, Hamala, D. & Knezek, G. Integrating Telecommunications into the Curriculum. Presentation to the Texas Computer Education Association (TCEA) 16th Annual Conference, Austin, Texas, February, 1996.
- Knezek, G. & **Christensen, R.** Assessing Attitudes Toward Computers. Presentation to the Texas Computer Education Association (TCEA) 16th Annual Conference, Austin, Texas, February, 1996.
- Knezek, G. & **Christensen, R.** (1996). Validating the Computer Attitude Questionnaire. Paper presented to the Southwest Educational Research Association Annual Conference, New Orleans, Louisiana, January, 1996.
- Christensen, R.**, & Knezek, G. Constructing the Teachers' Attitudes Toward Computers (TAC) Questionnaire. Paper presented to the Southwest Educational Research Association Annual Conference, New Orleans, Louisiana, January, 1996.
- Christensen, R.**, Knezek, G., & Campbell, N. Global Classrooms: The Air and Water Projects, Keynote videoconference presentation to the New Zealand Computers in Education Society (NZCES) Sixth Biennial Conference, Hamilton, New Zealand, January, 1996.
- Christensen, R.**, Knezek, G. & Campbell, N. C.U.-SeeMe: Teacher Conferencing for Global Student Internet Exchanges, Presentation to the Fourth International Conference on Telecommunications in Education, Ft Lauderdale, Florida, December, 1995.
- Moore, D., Knezek, G., & **Christensen, R.** New Trends for Science Education, presentation to Texas Computer Education Association Area 5 Fall Conference, Richardson, Texas, October 1995.
- Christensen, R.**, & Knezek, G. Networking in the Classroom, invited presentation to the 12th Annual Region 4 TCEA Conference, Alief, Texas, September 1995.
- Christensen, R.**, & Knezek, G. Networking in the Classroom, presentation at Technology Day, Decatur, Texas, September, 1995.
- Jones, G., Knezek, G. & **Christensen, R.** Affordable Radio/Satellite Communications for Education, presented at the World Conference on Computers in Education (WCCE), Birmingham, England, July 1995.
- Knezek, G., Southworth, J., **Christensen, R.**, Jones, G., & Moore, D. Educating Teachers for Hands-On Science, presented at the Society for Information Technology and Teacher Education (SITE) conference, San Antonio, Texas, March, 1995.
- Knezek, G. & **Christensen, R.** Trends in Texas School Children's Attitudes Toward Computers. Presentation to the 15th Annual Texas Computer Education Association (TCEA) Conference, Austin, Texas, February, 1995
- Christensen, R.**, & Knezek, G. Effects of Introducing Computers to Young Children. Presentation to the 15th Annual Texas Computer Education Association (TCEA) Conference, Austin, Texas, February 1995.
- Christensen, R.** & Hamala, D. Global Classroom Curriculum Series, presented at the 15th Annual Texas Computer Education Association (TCEA) Conference, Austin, Texas, February 1995.
- Christensen, R.** A Comparative Study of the Attitudinal Effects of Computer Use on Young Children. Presentation to the SERA (Southwest Educational Research Association) Conference, Dallas, Texas, January 1995.
- Christensen, R.**, & Knezek, G. Model Activities for Internet-Accessible Teachers, presented at the Third Annual Tel-Ed Symposium, Albuquerque, New Mexico, November 1994.
- Christensen, R.**, & Knezek, G. Internet Resources for Educators: Locating the Tip of the Iceberg, presented at the Texas Center for Educational Technology's 21st Century Teachers Technology in Teacher Education Conference, Dallas, April, 1994.
- Knezek, G., & **Christensen, R.** Introduction to the Texas Education Network (TENET), presented for the College of Education Academy for Research and Professional Development, Denton, February, 1994.

**Christensen, R.**, & Hamala, D. Global Interaction in Elementary Education, The Air Project: A Curriculum Focus. Presented as a Spotlight Session at the Second Annual Tel-Ed Symposium, Dallas, November 1993.

**Christensen, R.**, & Hamala, D. Global Classrooms: The Air Project. Presented at the National Educational Computing Conference, Orlando, Florida, June 1993.

**Christensen, R.**, & Hamala, D. Global Classrooms: The Water and Air Projects, presentation at the Texas Computer Educational Association Conference, Austin, February 1993.

Clayton, G., Campbell, N., Knezek, G., Moore, D., & **Christensen, R.** Global Classrooms Through Telecommunications. Special Window Session at the National Educational Computing Conference, Dallas, June 1992.

## Doctoral Committees

Samson DenLepcha – graduated December 2019. Dissertation: Analyzing Learning Motivation and Knowledge Acquisition in a WebVR Environment.

Jennifer Miller – graduated December 2016. Dissertation: Effect of Makerspace Professional Development Activities on Elementary and Middle School Educator Perceptions of Integrating Technologies with STEM (Science, Technology, Engineering, Mathematics)

Garry Mayes – graduated December 2014. Dissertation: Factors Impacting the Accuracy of Self-Report Perceptions of Expertise in Technology Integration

Susan Hopper – graduated May 2014. Dissertation: The relationship of personality traits to teacher candidate perceptions of teaching confidence and teaching experience in a simulated classroom environment. UNT.

Leila Mills – graduated 2013. Dissertation: Middle school student predictors of stem career interest (indicators of stem career interest among public middle school students in the United States).UNT

Sita Periathiruvadi - graduated August 2013. Dissertation: Investigating the relationship between Internet attitudes of college students and their stem (science, technology, engineering and mathematics) career perceptions. University of North Texas

Theresa Overall – graduated May 2007. Dissertation: One-to-one technology and mathematics achievement for eighth grade girls and boys in the state of Maine. University of North Texas.

Cesar Morales – graduated May 2006. Dissertation: Cross-Cultural Validation of The Will, Skill, Tool Model of Technology Integration. University of North Texas.

Robert J. Hancock – graduated August 2005. Dissertation: An investigation of the impact of technology expenditures on student achievement in Texas public school districts. University of North Texas

## External Examiner

Kai Ming Li, Towards a Pedagogical Model of Learning to Teach with Information Technology  
University of Waikato (2003)  
New Zealand

Sri Partha Sarathi Sarkar, Education and society in the rural areas of Madhupur subdivision in Bihar  
University of Kalyani (2000)  
India

## Teaching Experience and Evaluations

Course Evaluations have always been excellent. Evaluations for every semester are not available but those that are available are included below.

Summer 2013

*Analysis of Research Data* (CECS 6510) – Online Doctoral Course

Fall 2013

*Introduction to Research in Learning Technologies* (CECS 6511) – Online Doctoral Course

*Computers in the Classroom* (CECS 4100) – Lead author of course curriculum

Evaluations on a 5-point scale

Spring 2002 = 4.85

Fall 2001 = 4.83 and 4.90  
 Spring 2000 = 4.96  
 Fall 2000 = 4.9 and 5.0  
 Spring 1999 = 4.69  
 Fall 1998 = 4.73  
 Spring 1998 = 4.82  
 Fall 1997 = 4.79  
 Fall 1996 = 4.79

CECS 4800 – *Technology Integration Mentoring* (Authored curriculum)  
 Spring 2000 = 4.91

## External Funding

### Grants and Contracts

2016-2021	NASA Heliophysics Award	NASA Goddard Space Center	Co-Principal Investigator
2014-2016	STEM Pre-Academy Independent Evaluation Contact, Awarded \$169,600	The Research Corporatio n of the University of Hawaii (RCUH)	Co-Principal Investigator
2015-2018	Collaborative Research: American Innovations in an Age of Discovery: Teaching Science and Engineering through 3D-printed Historical Reconstructions (\$359,026)	National Science Foundation	Co- Principal Investigator
2013-2017	Going Green! Middle Schoolers Out to Save the World (MSOSW), Awarded \$1,993,528, Innovative Technologies Scale Up Project	National Science Foundation	Co-Principal Investigator
2012-2013	MSOSW Supplement, Awarded \$99,000	NSF	Co-Principal Investigator
2011-2012	SimSchool, Gates/EDUCAUSE, \$250,000 award, \$35,000 subaward to UNT		Co-Principal Investigator
2010-2013	Digital Fabrication in Classrooms, NSF ITEST, \$1,200,000 award, \$289,000 subaward to UNT	National Science Foundation	Co-Principal Investigator

2010-2011	Hawaii First Pre-Academy Research & Evaluation, \$56,000	Department of Education	Principal Investigator
2008-2012	Middle Schoolers Out to Save the World, (MSOSW), \$1,500,000	National Science Foundation	Co-Principal Investigator
2007-2010	Simulated Educational Tutoring for Students with Disabilities, \$300,000	National Science Foundation	Co-Principal Investigator
2006-2009	SimMentoring: Guiding Development from Virtual to Real Teaching \$599,899	Fund for Improvement of Post-secondary Education	Principal Investigator
2004-2006	Univ. of Louisiana – Monroe Evaluation of Information Technology Experiences for Teachers and Students (ITEST) \$30,000	National Science Foundation	Co-Principal Investigator
2003-2006	University of Nevada – Reno Technology in Teacher Education \$481,692.80 UNT Share for Research/Eval	U.S. Dept. of Education	Co-Principal Investigator
2003-2004	Refining Best Teaching Practices for Technology Integration: Evaluating the Key Instructional Design Strategies Project. \$127,660.67	U.S. Dept. of Education	Co-Principal Investigator
2002-2003	U.S. Dept. of Ed./Allen ISD Challenge Grant Evaluation Supplemental Award \$97,987.99	U.S. Dept. of Education	Co-Principal Investigator
2001-2002	U.S. Dept. of Ed./KIDS Challenge Grant Supplemental Award \$210,020	U.S. Dept. of Education	Co-Principal Investigator
2001-2002	PT3 Project Dissemination Award \$21,000	U.S. Dept. of Education	Investigator
2001-2003	Intel Preservice Teach to the Future \$10,000	Intel Corp.	Principal Investigator
2000-2001	U.S. Dept. of Ed./KIDS Challenge Grant Evaluator Supplemental Award		Co-Principal Investigator

	\$37,034		
2000-2003	Millennium II: Preparing Tomorrow's Teachers to Bridge the Digital Divide \$779,500	U.S. Dept. of Education	Investigator
1999-2000	The Millennium Project: Pathways for Preparing Tomorrow's Teachers to Infuse Technology into Teaching and Learning. \$163,000	U.S. Dept. of Education	Investigator
1999-2004	Refining Best Teaching Practices for Technology Integration: Evaluating the Key Instructional Design Strategies Project. \$589,034	Allen ISD U.S. Dept. of Education Challenge Grant	Co-Principal Investigator

Revised 2.16.20