

## **GWEN CURRY NUGENT**

Nebraska Center for Research on Children, Youth, Families and Schools  
University of Nebraska–Lincoln  
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### **EDUCATION**

- 1979 PhD University of Nebraska, Educational Psychology and Measurements  
1972 MA University of Georgia, Speech-Communication  
1969 BA Texas Tech University, Speech-Communication

### **ACADEMIC POSITIONS**

- 2006 – Present *Graduate Faculty Associate*  
Department of Educational Psychology, University of Nebraska–Lincoln
- 2012 – Present *Research Professor*  
Nebraska Center for Research on Children, Youth, Families, and Schools  
College of Education and Human Sciences  
University of Nebraska-Lincoln

Develop and lead research and evaluation related to science, technology, engineering, and mathematics (STEM) instruction and teaching; organize and support interdisciplinary research teams that foster new basic and applied research related to the Center and College mission; support University of Nebraska faculty and students in preparation of grant proposals to federal and private funding agencies. As part of the National Center for Research Education, I directed a major randomized control trial, *Coaching Science Inquiry in Rural Schools*, and headed the Rural Education Leadership Institute (RELI), which aimed to cultivate the national research and education communities to excellence in rural education. Responsibilities included organizing a speaker series, recruiting and supporting post-doctoral trainees, hosting visiting scholars, and coordinating a national conference.

2004 – 2012            *Research Associate Professor*  
Nebraska Center for Research on Children, Youth, Families and Schools  
College of Education and Human Sciences  
University of Nebraska–Lincoln

2002 – 2004            *Research Associate Professor*  
National Center for Information Technology in Education (NCITE)  
College of Education and Human Sciences  
University of Nebraska–Lincoln

Coordinated and supported research/development projects funded through NCITE (<http://ncite.unl.edu>) involving UNL, K-12 and higher education personnel. Projects focused on the impact of technology to improve student learning, with special emphasis on on-line instruction and assessment.

1982 – 2004            *Director of Educational Telecommunications*  
Nebraska Educational Telecommunications (NET)  
University of Nebraska-Lincoln

Directed all formal education activities of NET, an umbrella organization incorporating University of Nebraska–Lincoln Television and the statewide public television network. Primary functions included the design, production, marketing, and delivery of mediated coursework and training to Nebraska higher education, corporate, and K–12 audiences, as well as life-long learners.

1979 – 1982            *Director of Educational Development*  
Educational Media Production Project for the Hearing Impaired  
Barkley Center  
University of Nebraska–Lincoln

Led instructional design teams who designed, produced, and evaluated media products (videodisc, computer, television, film, filmstrip, and print materials) for hearing impaired audiences.

1972 – 1976            *Director of Instructional Design*  
Georgia Educational Media Services  
Georgia Department of Education

Served as project manager for the development and evaluation of original instructional television programs delivered via the statewide Georgia ETV Network. Consulted with

public school personnel to affect a systematic approach to media selection, distribution, and utilization.

## **GRANT AND RESEARCH ACTIVITIES**

### **Grant Proposals Under Review**

*Analysis of Effective Science Coaching: What, Why, and How* (Role: PI)

National Science Foundation DRK-12 Grant

2016 – 2019 (\$693,361)

(G. Kunz, Co-PI; J. Houston, Co-PI)

Quality Elementary Science Teachers (QuEST): A Collaborative Model for Developing Teacher Leaders in Elementary Science (Role: Co-PI)

National Science Foundation DRK-12 Grant

2016 – 2019 (\$1,457,709)

(L. Scharmann, PI; J. Thomas, Co-PI; J. Blake, Co-PI)

*A Study of Professional Development for Out-of-School-time STEM Learning* (Role: Key personnel)

National Science Foundation AISL Grant

2016 – 2019 (\$1,250,131)

(Kathleen Lodl, PI; Jill Walahoski, Co-PI)

### **Funded Grants: External/Internal**

*WearTec + IoT (Internet of Things) Revision Proposal* (Role: Co-Principal Investigator)

UNL Research Office Internal Award

2015 – 2016 (\$19,999)

(Brad Barker, PI)

*Wearable Technologies Project (WearTec)* (Role: Co-Principal Investigator)

National Science Foundation ITEST Grant

2014 – 2017 (\$984,189)

(B. Barker, PI; C. Nelson, Co-PI; J. Melander, Co-PI; N. Grandgenett, Co-PI; G. Nugent, Co-PI)

*CenUSA Bioenergy* (Role: Evaluator)

United States Department of Agriculture

Iowa State Lead Institution

2012 – 2016 (\$24,750,000)

*National Center for Research on Rural Education* (Role: Co-Principal Investigator)

U.S. Department of Education

2009 – 2014 (\$9,997,852). No cost extension through 6/30/2015

(S. M. Sheridan, PI; T. Glover, Co-PI; G. Nugent, Co-PI; G. Kunz, Co-PI; J. Bovaird, Co-PI)

Note: *Coaching Science Inquiry in Rural Schools*, funded as part of the National Center for Research on Rural Education (Role: Principal Investigator)

*Scale-Up: National Robotics in 4-H: Workforce Skills for the 21<sup>st</sup> Century* (Role: Research Coordinator)

National Science Foundation, Innovative Technology Experiences for Students and Teachers (ITEST)

2008 – 2013 (\$2,498,940)

(B. Barker, PI; V. Adamchuk, Co-PI; C. Nelson, Co-PI; G. Nugent, Research Coordinator; N. Grandgenett, Evaluator)

*Coaching for Sustainability: Peer Coaching Science Inquiry in Rural Schools* (Role: Co-Principal Investigator)

Nebraska Coordinating Commission for Postsecondary Education

2012 – 2013 (\$79,000)

(S.C. Lee, PI, G. Nugent, Co-PI, Kunz, Co-PI)

*Coaching Science Inquiry Professional Development* (Role: Co-Principal Investigator)

Coordinating Commission for Postsecondary Education.

2011 – 2012 (\$79,568)

(S. E. DeChenne, PI; G. Kunz, Co-PI; G. Nugent, Co-PI)

*Central Great Plains Climate Change Education Partnership Supplement: Expanding our Reach and Research* (Role: Senior Personnel)

National Science Foundation

2011 – 2012 (\$211,985)

(L. Pytlik-Zilig, PI; M. Shulski, K. Hubbard, G. Nugent, S. Hu, Senior Personnel)

*Distance Delivery of UNL's Comprehensive and High Quality Professional Development Math and Science Summer Technology Institute* (Role: Co-Principal Investigator)

Nebraska Coordinating Commission for Postsecondary Education

2009 - 2011 (\$59,999)

(L. Rilett, PI; G. Kunz, Co-PI; G. Nugent, Co-PI)

*Transportation Curriculum Development Using Technology Application and Student Experiences in STEM* (Role: Evaluator)

U.S. Department of Transportation, Nebraska Department of Education subaward  
2008 – 2011 (\$182,368)  
(L. Rilett, PI; G. Kunz, Co-PI; G. Nugent, Evaluator)

*Silicon Prairie Initiative for Robotics in Information Technology* (Role: Consultant)  
National Science Foundation, Discovery Research K-12  
2008 – 2011 (\$2,999,963)  
(B. Chen, PI; N. Grandgenett, Co-PI; E. Ostler, Co-PI; G. Nugent, Consultant)

*Lincoln Public Schools TeamMates Mentoring Project* (Role: Evaluator)  
U.S. Department of Education, Lincoln Public Schools subaward  
2008 – 2011 (\$54,000)  
(W. Powell, PI; G. Nugent, Evaluator)

*iLOG: Embedding and Validating Empirical Usage Intelligence in Learning Objects* (Role: Co-Principal Investigator)  
National Science Foundation, Advanced Learning Technologies  
2007 – 2011 (\$398,210)  
(L.-K. Soh, PI; A. Samal, Co-PI; G. Nugent, Co-PI)

*iLOG: Embedding and Validating Empirical Usage Intelligence in Learning Objects* REU  
Supplement (Role: Co-Principal Investigator)  
National Science Foundation  
2008-2009 (\$12,000)  
(L.-K. Soh, PI; A. Samal, Co-PI; G. Nugent, Co-PI)

*Research Agenda on Family-School Partnerships: An Interdisciplinary Examination of State of the Science and Critical Needs* (Role: Co-PI)  
American Education Research Association  
2010 (\$14,109)  
(S. M. Sheridan, PI; G. Kunz, Co-PI; G. Nugent, Co-PI; J. Bovaird, Co-PI)

*Continuity Across Family and School Systems to Promote the Learning and Development of Children and Adolescents* (Role: Co-Principal Investigator)  
National Science Foundation  
2009 – 2010 (\$14,999)  
(S. M. Sheridan, PI; G. Nugent, Co-PI; G. Kunz, Co-PI; J. Bovaird, Co-PI)

*Developing a Framework for Virtual Learning Models* (Role: Evaluator)  
UNL Institute for Agriculture and Natural Sciences Seed Grant  
2008 – 2009 (\$8,000)  
(M. Mamo, PI; D. Damuth-Covert, Co-PI; G. Nugent, Evaluator)

*Continuation and Expansion of UNL's Comprehensive and High Quality Professional Development Math and Science Summer Technology Institute* (Role: Co-Principal Investigator)

Nebraska Coordinating Commission for Postsecondary Education  
2008 – 2009 (\$59,998)  
(L. Rilett, PI; G. Kunz, Co-PI; G. Nugent, Co-PI)

*Professional Development Math and Science Technology Institutes Continuation* (Role: Co-Principal Investigator)

Nebraska Coordinating Commission for Postsecondary Education  
2007 – 2009 (\$78,514)  
(L. Rilett, PI; G. Kunz, Co-PI; G. Nugent, Co-PI)

*Robotics and GPS/GIS in 4-H: Workforce Skills for the 21<sup>st</sup> Century* (Role: Research Coordinator)

National Science Foundation ITEST  
2006 – 2009 (\$864,000)  
(B. Barker, PI; V. Adamchuk, Co-PI; G. Nugent, Research; N. Grandgenett, Evaluation)

*Healthy Families Play Outside Evaluation* (Role: Evaluator)

Institute for Museum and Library Services  
2007 – 2008 (\$10,000)  
(M. Wickless, PI; G. Nugent, Evaluator)

*Professional Development Summer Technology Institute with a Transportation Focus for Middle and High School STEM Teachers* (Role: Evaluator)

U.S. Department of Transportation, Nebraska Department of Education sub-award  
2007 – 2008 (\$86,412)  
(L. Rilett, PI; G. Kunz, Co-PI; G. Nugent, Evaluator)

*Professional Development Science and Math Summer Technology Institute* (Role: Co-Principal Investigator)

Nebraska Coordinating Commission for Postsecondary Education  
2006 – 2008 (\$60,262)  
(L. Rilett, PI; G. Kunz, Co-PI, G. Nugent, Co-PI)

*ARISE Evaluation* (Role: Evaluator)

National Science Foundation, Evaluation Subcontract  
2007 – 2008 (\$18,956)  
2006 – 2007 (\$18,764)  
(F. Rack, PI; G. Nugent, Evaluator)

*Development and Implementation of a Field-Based Inquiry-Focused Geoscience Course for Pre-Service Teachers: A Plan to Improve Geoscience Education K–16* (Role: Co-Principal Investigator)

National Science Foundation, Geoscience Education

2005 – 2007 (\$162,967 with a \$12,989 supplement to fund a qualitative study)

(R. Levy, PI; D. Harwood, Co-PI; G. Nugent, Co-PI)

*Study of Medicaid Billing for Infant/Toddler with Special Needs in Nebraska* (Role: Co-Principal Investigator)

Nebraska Department of Education

2005 – 2006 (\$21,068)

(C. Marvin, PI; G. Nugent, Co-PI; B. Doll, Co-PI)

*Bridges: School to Home Technology Initiative* (Role: Researcher)

U.S. Department of Education subcontract to National Center for Information Technology in Education

2004 – 2006 (\$20,000)

2002 (\$65,000)

(S. Welch, PI; G. Nugent, Researcher)

*Video Streaming of Distance Education Courses for Colleges of Business and Engineering* (Role: Co-Principal Investigator)

UNL Office of Extended Education and Outreach

1999 – 2001 (\$31,760)

(G. Karels, PI; G. Nugent, Co-PI)

*Pre-K–12 Instructional Television Service for Nebraska Schools* (Role: Principal Investigator)

Nebraska Department of Education

1996 – 2001 (\$200,000 annually)

*Distance Education Policy Research: Organization and Administration* (Role: Co-Principal Investigator)

UNL Institute of Agriculture and Natural Resources

1997 – 2000 (\$30,000)

(J. King, PI; G. Nugent, Co-PI)

*Television of Tomorrow Initiative* (Role: Co-Principal Investigator)

Corporation for Public Broadcasting

1998 (\$58,728)

(L. Rockwell, PI; G. Nugent, Co-PI)

*Development of a Statewide Telecommunications Plan* (Role: Senior Personnel)

U.S. Department of Commerce

1994 (\$212,455)

(J. McBride, PI; G. Nugent, Senior Personnel)

*Prototype Videotex/Videodisc Information Center for Tourists* (Role: Co-Principal Investigator)

Nebraska Department of Economic Development and Nebraska Department of Roads

1986 (\$57,000)

(L. Rockwell, PI; G. Nugent, Co-PI)

*Development of a Computer-Based, College Independent Study Course* (Role: Senior Personnel)

Annenberg Foundation

1984 (\$183,000)

(L. Rockwell, PI; G. Nugent, Senior Personnel)

*Interactive Cable Project for Development of College Independent Study Courses* (Role: Senior Personnel)

Corporation for Public Broadcasting and Cox Cable

1982 – 1983 (\$225,000)

(L. Rockwell, PI; G. Nugent, Senior Personnel)

*Educational Media Production Project for the Hearing Impaired* (Role: Senior Personnel)

U.S. Office of Education

1979 – 1981 (\$575,000 annually)

(R. Stepp, PI; G. Propp, Co-PI; G. Nugent, Senior Personnel)

### **Grant Preparation Assistance**

*Carnegie Network on the Professional Practice Doctorate* (Role: Grant Conceptualization and Assistance)

Carnegie Foundation

2007 – 2009

(L. Duglosh, PI; M. Latta, Co-PI)

*Effective Treatment of Adolescent Sex Offenders: Development and Implementation of a Risk Assessment Service* (Role: Grant Conceptualization and Assistance)

Woods Charitable Fund

2005 – 2007 (\$28,268)

(J. Vilojoen, PI)



## **PUBLICATIONS**

*Names of student authors are in italics.*

### **Refereed Journal Articles in Preparation**

Kunz, G. M., Nugent, G., Chumney, F., Rilett, L., & *Lefler, V.* (2015). The impact of teacher professional development on teacher and student engineering learning and attitudes. *Advances in Engineering Education*. Manuscript in preparation.

### **Refereed Journal Articles Under Review**

Glover, T. A., Nugent, G. C., Chumney, F. L., Ihlo, T., Shapiro, E. S., & Guard, K. (under review). Investigating rural teachers' professional development, instructional knowledge, and classroom practice. *Journal of Research in Rural Education*.

Morgan, K., Barker, B., Nugent, G., & Grandgenett, N. (under review). Educational robotics as leadership development for youth. *The Journal of Leadership Education*.

Nugent, G., Kohmetscher, A., Namuth-Covert, D., Guretzky, J., Murphy, P., & Lee, D. (under review). Learning from online modules in diverse instructional contexts. *Interdisciplinary Journal of e-Skills and Lifelong Learning*.

Nugent, G., Kunz, G., Houston, J., *Kalutskaya, I.*, *Wu, C.*, Pederson, J., Lee, S. C., DeChenne, S. E., *Luo, L.*, & *Berry, B.* (under review). The effectiveness of science instructional coaching in middle and high school. *Journal of Research in Science Teaching*.

White, A. S., Howell Smith, M., Kunz, G., & Nugent, G. (under review). Active ingredients of instructional coaching: Developing a conceptual framework. *American Educational Research Journal*.

### **Refereed Journal Articles in Press/Published**

*Miller, L. D.*, Kupzyk, K., Nugent, G., Soh, L.-K., & Samal, A. (in press). A comparison of educational statistics and data mining approaches to identify characteristics that impact online learning. *Journal of Educational Data Mining*.

Nugent, G., Barker, B., Grandgenett, N., & Welch, G. (2016). Robotics camps, clubs, and competition: Results from a U.S. robotics project. *Robotics and Autonomous Systems*, 75, Part B, 686–691.

- Nugent, G., Barker, B., Welch, G., Grandgenett, N., Wu, C., & Nelson, C. (2015). A model of factors contributing to STEM learning and career orientation. *International Journal of Science Education, 37*, 1067–1088.
- Barker, B., Nugent, G., & Grandgenett, N. (2013). Examining fidelity of program implementation in a STEM-oriented out-of-school setting. *International Journal of Technology and Design Education, 24*, 39–52.
- Nugent, G., Toland, M., Levy, R., Kunz, G., Harwood, D., Green, D., & Kitts, K. (2012). The impact of an inquiry-based geoscience field course on pre-service teachers. *Journal of Science Teacher Education, 23*, 503–529.
- Rockwell, K., Albrecht, J., Nugent, G., & Kunz, G. (2012). Using *Targeting Outcomes of Programs* as a framework to target photographic events in nonformal educational programs. *American Journal of Evaluation, 33*, 179–194.
- Mamo, M., Namuth-Covert, D., Guru, A., Nugent, G., Phillips, L., Samdall, L., Kettler, T., & McCallister, D. (2011). Avatars go to class: A virtual environment soil science activity. *Journal of Natural Resources & Life Sciences Education, 40*, 114–121.
- Miller, L. D., Soh, L.-K., Samal, A., & Nugent, G. (2011). iLOG: A framework for automatic annotation of learning objects with empirical usage metadata. *International Journal on Artificial Intelligence in Education, 21*, 215–236.
- Barker, B., Grandgenett, N., Nugent, G., & Adamchuk, V. (2010). Pairing educational robotics with geospatial technologies in informal learning environments. *Journal of Youth Development, 5*(2). Retrieved from [http://data.memberclicks.com/site/nae4a/JYD\\_100502\\_finalx.pdf](http://data.memberclicks.com/site/nae4a/JYD_100502_finalx.pdf)
- Barker, B., Grandgenett, N., Nugent, G., & Adamchuk, V. (2010). Robots, GPS/GIS, and programming technologies: The power of "digital manipulatives" in youth extension experiences. *Journal of Extension* [online], 45(5). Retrieved from <http://www.joe.org/joe/2010february/a7.php>
- Nugent, G., Barker, B., Grandgenett, N., & Adamchuk, V. (2010). Impact of robotics and geospatial technology interventions on youth STEM learning and attitudes. *Journal of Research on Technology Education, 42*, 391–408.
- Nugent, G., Kunz, G., Rilett, L., & Jones, L. (2010). Extending engineering education to K–12. *Technology Teacher, 69*, 14–19.

- Barker, B., Grandgenett, N., & Nugent, G. (2009). A new model of 4-H volunteer development in science, engineering, and technology programs. *Journal of Extension*, 47(2). Retrieved from <http://www.joe.org/joe/2009april/iw4.php>
- Riley, S., Miller, L. D., Soh, L.-K., Samal, A., & Nugent, G. (2009). Intelligent learning object guide (iLOG): A framework for automatic empirically-based metadata generation. *Artificial Intelligence in Education*, 515–522.
- Barker, B., Nugent, G., & Grandgenett, N. (2008). Examining 4-H robotics and geospatial technologies in the learning of science, technology, and mathematics topics. *Journal of Extension*, 46(3). Retrieved from [www.joe.org/joe/2008june/rb7.shtml](http://www.joe.org/joe/2008june/rb7.shtml)
- Barker, B., Nugent, G., Grandgenett, N., & Hampton, A. (2008). Examining 4-H robotics in the learning of science, engineering and technology topics and the related student attitudes. *Journal of Youth Development: Bridging Research and Practice*, 2(3), 7–18. Retrieved from [http://www.nae4ha.org/directory/jyd/jyd\\_article.aspx?id=f5a34e58-1cd3-4994-981d-b81fa406cd74](http://www.nae4ha.org/directory/jyd/jyd_article.aspx?id=f5a34e58-1cd3-4994-981d-b81fa406cd74)
- Nugent, G., Kunz, G., Levy, R., Harwood, D., & Carlson, D. (2008). The impact of a field-based, inquiry-focused model of instruction on preservice teachers' science learning and attitudes. *Electronic Journal of Science Education*, 12(2), 1–18.
- Soh, L.-K., Samal, A., & Nugent, G. (2007). An integrated framework for improved computer science education: Strategies, implementation and results. *Computer Science Education*, 17, 59–83.
- Lang, J., Nugent, G., Soh, L.-K., & Samal, A. (2006). Implementing CS1 with embedded instructional research design in laboratories. *IEEE Transactions on Education*, 49(1), 157–165.
- Nugent, G. C., Soh, L.-K., & Samal, A. (2006). A placement test for computer science: Design, implementation and analysis. *Journal of Computer Science Education*, 49, 157–165.
- Nugent, G. C., Soh, L.-K., & Samal, A. (2006). Development and validation of learning objects. *Journal of Educational Technology Systems*, 34, 271–281.
- Nugent, G. C. (2005). The use of learning objects in K–12: The public television experience. *Tech Trends*, 49(4), 61–66.
- Soh, L.-K., Samal, A., & Nugent, G. (2005). A framework for CS1 closed laboratories. *Journal of Educational Resources in Computing*, 5(4), 1–13.

- King, J. W., Nugent, G. C., Eich, J. J., Mlinek, D. L., & Russell, E. B. (2000). A policy for distance education: A case study and model. *DEOSNEWS*, 10(10). Retrieved from [http://learningdesign.psu.edu/assets/uploads/deos/deosnews10\\_10.pdf](http://learningdesign.psu.edu/assets/uploads/deos/deosnews10_10.pdf)
- King, J., Nugent, G. C., Russell, E., Eich, J., & Lacy, D. (2000). A policy framework on distance education: Implications for decision makers. *Journal of Distance Learning Administration*. Retrieved from <http://www.westga.edu/~distance/summer32.html>
- Nugent, G. C. (1996). Promising technologies and models for distance education in Nebraska. *Leadership Nebraska*, 6, 55–58.
- Nugent, G. C., & Stepp, R. E. (1984). The potential of videodisc technology for the hearing impaired. *Exceptional Education Quarterly*, 4, 104–113.
- Nugent, G. C. (1983). Deaf students' learning from captioned instruction: The relationship between the visual and caption display. *Journal of Special Education*, 17, 227–234.
- Nugent, G. C. (1982). Pictures, audio, and print: Symbolic representation and effect on learning. *Educational Communication and Technology Journal*, 30, 163–174.
- Nugent, G. C., & Stone, C. G. (1982). The videodisc meets the microcomputer. *American Annals of the Deaf*, 127, 569–572.
- Propp, G., Nugent, G. C., & Tidball, K. (1982). Educational media production project for the hearing impaired: Project update. *American Annals of the Deaf*, 127, 684–689.
- Stone, C. G., & Nugent, G. C. (1982). Think It Through: An interactive videodisc for the hearing impaired. *Johns Hopkins APL Technical Digest*, 3, 238–240.
- Propp, G., Berman, V. A., Nugent, G. C., Brunsen, J., Dam, L., Harding, R., . . . & Tidball, K. (1981). Media development project for the hearing impaired: Project update. *American Annals of the Deaf*, 6, 760–768.
- Propp, G., Nugent, G. C., Stone, C., & Nugent, R. (1981). Videodisc for the hearing impaired. *Volta Review*, 83, 321–327.
- Brooks, D. W., Nugent, G. C., & Tipton, T. J. (1980). Values in chemical education. *Journal of Chemical Education*, 57, 16.
- Nugent, G. C. (1980). The videodisc: New technology for teaching the handicapped. *Journal of Special Education Technology*, 3, 68–70.

- Nugent, G. C., Tipton, T. J., & Brooks, D. W. (1980). Task, learner, and presentation interactions in television production. *Educational Communication and Technology Journal*, 28, 30–38.
- Nugent, G. C., Tipton, T. J., & Brooks, D. W. (1980). The teaching of values. *Journal of College Science Teaching*, 9, 151–152.
- Nugent, G. C., Tipton, T. J., & Brooks, D. W. (1980). The use of introductory organizers in television instruction. *Journal of Educational Psychology*, 72, 445–451.
- Nugent, G. C., Tipton, T. J., & Brooks, D. W. (1980). Trigger tapes: How to pose ethical questions. *Instructional Innovator*, 5, 41–42.
- Nugent, G. C. (1980). Videodisc: A new tool for teaching. In G. Propp (Ed.), *1980s schools: Portals to century XXI*. Silver Springs, MD: Convention of American Instructors of the Deaf.
- Propp, G., Nugent, G. C., & Stone, C. (1980). Videodisc update. *American Annals of the Deaf*, 125, 679–684.
- Propp, G., Nugent, G. C., Nugent, R., & Stone, C. (1979). Satellite demonstration: The videodisc technology. *American Annals of the Deaf*, 124, 652–655.

## **Books**

- Nugent, G. C., Kunz, G. M., Sheridan, S. M., Glover, T. A., & Knoche, L. L. (Eds.). (in press). *Rural education research: State of the science and emerging directions*. New York, NY: Springer.
- Barker, B., Nugent, G., Grandgenett, N., & Adamchuk, V. (Eds.). (2012). *Robots in K–12 education: A new technology for learning*. Hershey, PA: IGI Global.

## **Refereed Chapters**

- Nugent, G. C., Kunz, G. M., Hellwege, M. A., & O'Connor, M. A. (in press). Advancing rural education research: Perspectives from the National Conference on Rural Education Research. In G. C. Nugent, G. M. Kunz, S. M. Sheridan, T. A. Glover, & L. L. Knoche (Eds.), *Rural education research: State of the science and emerging directions*. New York, NY: Springer.

- Nugent, G. C., Kunz, G. M., Houston, J., Kalutskaya, I., & Pedersen, J. (in press). The effectiveness of e-coaching in rural science classrooms. In G. C. Nugent, G. M. Kunz, S. M. Sheridan, T. A. Glover, & L. L. Knoche (Eds.), *Rural education research: State of the science and emerging directions*. New York, NY: Springer.
- Barker, B., Grandgenett, N., Nugent, G., Melander, J., & Nelson, C. (in press). Developing an elementary engineering education program through problem-based wearable technologies activities. In J. Holland (Ed.), *Handbook of research on wearable and mobile technologies in education*. Hershey, PA: IGI Global.
- Barker, B., Melander, J., Grandgenett, N., & Nugent, G. (2015). Utilizing wearable technologies as a pathway to STEM. In L. Liu & D. C. Gibson (Eds.), *Research highlights in technology and teacher education* (pp. 69–78). Chesapeake, VA: AACE.
- Adamchuk, V., Barker, B., Nugent, G., Grandgenett, N., Patent-Nygren, M., Morgan, K., & Lutz, C. (2012). Learning geospatial concepts as part of a non-formal education robotics experience. In B. Barker, G. Nugent, N. Grandgenett, & V. Adamchuk (Eds.), *Robotics in K–12 education: A new technology for learning* (pp. 284–301). Hershey, PA: IGI Global.
- Nugent, G., Barker, B., & Grandgenett, N. (2012). The impact of educational robotics on student STEM learning, attitudes and workplace skills. In B. Barker, G. Nugent, N. Grandgenett, & V. Adamchuk (Eds.), *Robotics in K–12 education: A new technology for learning* (pp. 186–203). Hershey, PA: IGI Global.
- Nugent, G. C., Feese, R., & Bendus, O. (2005). Online multimedia instruction and assessment for K–4 students. In L. Pytlik, M. Bodverson, & R. Bruning (Eds.), *Technology-based education: Bringing researchers and practitioners together* (pp. 121–142). Greenwich, CT: Information Age.
- Samal, A., Nugent, G. C., Soh, L.-K., & Lang, J. (2005). Reinventing computer science curriculum at the University of Nebraska. In L. Pytlik, M. Bodverson, & R. Bruning (Eds.), *Technology-based education: Bringing researchers and practitioners together* (pp. 63–82). Greenwich, CT: Information Age.
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## Published International Conference Proceedings

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## PRESENTATIONS

### National and International Refereed Conferences

Nugent, G., Kunz, G. M., Houston, J., Kalutskaya, I., & Wu, C. (2015, December). *Effectiveness of technology-delivered science coaching in rural middle and high schools*. Poster presentation at the National Center for Education Statistics and National Center for Special Education Research 2015 Principal Investigators Meeting, U.S. Department of Education, Institute of Education Sciences, Washington, DC.

Kunz, G. M., Nugent, G., Pedersen, J., Houston, J., Kalutskaya, I., & Wu, C. (2015, June). *Land-grant university partnership with rural Midwest schools to improve STEM education*. Paper presented at the annual meeting of Science and Mathematics Teacher Imperative, New Orleans, LA.

Nugent, G., Kunz, G., & Houston, J. (2015, May). *Connecting teachers and coaches*. Presentation at the Conference on Meaningful Living and Learning in a Digital World 2015, Savannah, GA.

White, A. S., Howell Smith, M. C., Kunz, G., & Nugent, G. (2015, May). *Active ingredients of instructional coaching: Results from qualitative strand embedded in a randomized control trial*. Paper presented at the 2015 International Congress on Qualitative Inquiry, Champaign, IL.

Lee, S. C., Nugent, G., Kunz, G., & Houston, J. (2015, April). *Coaching for sustainability: Distance-based peer coaching science inquiry*. Presentation at the 2015 International Conference of the National Association for Research in Science Teaching, Chicago, IL.

Nugent, G., Kunz, G., Pedersen, J., Houston, J., Lee, S., Luo, L., Kalutskaya, I., Berry, B., & Wu, C. (2015, April). *Impact of a summer institute and instructional coaching on teacher and student science inquiry practice*. Presentation at the International Conference of the National Association of Research in Science Teaching, Chicago, IL.

Lee, S. C., Nugent, G., Kunz, G., & Houston, J. (2015, January). *The value-added benefit of distance-based instructional coaching on science teachers' inquiry instruction and student achievement*. Paper presented at the 2015 International Conference of the Association for Science Teacher Educators, Portland, OR.

Guretzky, J., Kohmetscher, A., Namuth Covert, D., & Nugent, G. (2014, November). *Teaching students how perennial grasses grow and develop: Online learning objectives and*



*assessment*. Presentation at ASA, CSSA, and SSSA International Annual Meetings, American Society of Agronomy, Long Beach, CA.

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Lee, S. C., DeChenne, S., Nugent, G., Kunz, G., & Houston, J. (2014, March). *Case study: Impact of instructional coaching on science teachers' inquiry-based instruction in rural schools*. Paper presented at the 2014 International Conference of the National Association for Research in Science Teaching, Pittsburgh, PA.

Lee, S. C., DeChenne, S., Nugent, G., Kunz, G. M., & Houston, J. (2014, March). *Case study: Value added benefit of distance-based instructional coaching on science teachers' inquiry instruction in rural schools*. Poster presented at the 2014 International Conference of the National Association for Research in Science Teaching, Pittsburgh, PA.

Lee, S. C., Nugent, G., & Kunz, G. (2014, January). *Coaching for sustainability: Distance-based peer coaching science inquiry in rural schools*. Paper presented at the 2014 International Conference of the Association for Science Teacher Educators, San Antonio, TX.

Hall, M., Hayden, B., Jr., Nugent, G., Kunz, G., & Houston, J. (2013, November). *Instructional coaching: Extended professional development*. Presentation at the Association for Middle Level Education National Conference, Minneapolis, MN.

Hellwege, M. A., O'Connor, M. A., Nugent, G. C., Kunz, G. M., & Sheridan, S. M. (2013, November). *Advancing rural education research: Importance of interdisciplinary research partnerships*. Poster presented at the 2013 Rural Futures Conference: Beyond Boundaries, Lincoln, NE.

- Kunz, G. M., Nugent, G. C., & Pedersen, J. E. (2013, November). *Technology-based support for rural teachers' science classroom instruction*. Poster presented at the 2013 Rural Futures Conference: Beyond Boundaries, Lincoln, NE.
- Nugent, G., Kunz, G., Sheridan, S., Hellwege, M., & O'Connor, M. (2013, October). *Advancing rural education research: Results from the R2Ed National Conference*. Poster presentation at the National Rural Education Association Conference, Branson, MO.
- Glover, T., & Nugent, G. (2013, April). *The influence of rural professional development characteristics on teacher-perceived knowledge and practice*. Presentation at Connect-Inform-Advance Conference of the National Center for Research on Rural Education, Omaha, NE.
- Houston, J., Olson, M., Coover, P., Kendall, S., Hayden, B., Jr., Nugent, G., Kunz, G. M., & Pedersen, J. (2013, April). *CSI: Coaching science inquiry in rural schools*. Poster presented at Connect-Inform-Advance Conference of the National Center for Research on Rural Education, Omaha, NE.
- Kunz, G., Nugent, G., Glover, T., Knoche, L., Hayden, B., Jr., Olson, M., Smith, P., Wistrand, P., & Knapp, B. (2013, April). *Coaching as a form of professional development to support rural teachers*. Presentation at the Annual Center for Great Plains Studies Symposium, Kearney, NE.
- Kunz, G., Nugent, G., Pedersen, J., DeChenne, S. E., & Houston, J. (2013, April). *Meeting rural science teachers' needs: Professional development with on-going technology-delivered instructional coaching*. Presentation at the annual meeting of the American Education Association Research Conference, San Francisco, CA.
- Kunz, G., Nugent, G., Rilett, L., Lefler, V., & Herrington, M. (2013, April). *STEM professional development program for middle and high school teachers: a model for success*. Presentation at the American Education Association Research Conference, San Francisco, CA.
- Nugent, G. C., Marshall, J. C., Minner, D. D., Kunz, G. M., & Pedersen, J. (2013, April). *Understanding inquiry classroom practice through measurement of teacher inquiry skills*. Symposium presentation at the annual international conference of the National Association for Research in Science Teacher Conference, Rio Mar, Puerto Rico.
- Nugent, G., Barker, B., & Grandgenett, N. (2013, January). *Examining implementation fidelity in informal science*. Presentation at the National Conference of the Association of Science Teacher Education, Charleston, SC.

- Rilett, L., Kunz, G., Nugent, G., & Lefler, V. (2013, January). *Professional development summer institute: Curriculum development using technology application and student experiences in STEM*. Presentation at the Transportation Research Board 92<sup>nd</sup> Annual Meeting, Washington, DC.
- Kunz, G., Nugent, G., & Beasley, A. (2012, October). *Technology-delivered instructional coaching to support K–12 teachers in rural schools: A roundtable discussion*. Presentation at the National Rural Education Association Conference, Cincinnati, OH.
- DeChenne, S., Nugent, G., Kunz, G., Berry, B., Craven, K., & Riggs, A. (2012, April). *Coaching in a science, technology, engineering, and math professional development experience: A case study*. Presentation at the American Education Research Association Conference, Vancouver, Canada.
- Soh, L.-K., Samal, A., & Nugent, G. (2012, February). *iLOG (Intelligent Learning Object Guide): Embedding and validating empirical usage intelligence in learning objects*. Poster presented at the 2012 Computing Education for the 21st Century Community Meeting, Washington, DC.
- Glover, T., & Nugent, G. (2011, October). *A national study of rural teachers' professional development, instructional knowledge, and classroom practice*. Paper presented at the 103<sup>rd</sup> National Rural Education Association Convention and Research Symposium, Hilton Head, SC.
- Sheridan, S. M., Glover, T. A., Nugent, G., Kunz, G. M., & Bovaird, J. (2011, October). *Advances of the National Center for Research on Rural Education (R<sup>2</sup>Ed)*. Invited presentation, National Rural Education Association Convention and Research Symposium, Hilton Head Island, SC.
- Nugent, G., Pedersen, J., DeChenne, S., Chumney, F., & Welch, G. (2011, April). *A national study of elementary teachers' science inquiry professional development, knowledge, and instructional practice*. Paper presented at the 2011 International Conference of the National Association of Research in Science Teaching, Orlando, FL.
- Nugent, G., Pedersen, J., Welch, G., & Bovaird, J. (2011, April). *Development and validation of an instrument to measure teacher knowledge of inquiry*. Paper presented at 2011 International Conference of the National Association of Research in Science Teaching, Orlando, FL.
- Nugent, G. (2011, March). *The instructional impact of learning objects: A learning analytic approach*. Paper presented at the Cyberlearning Tools for STEM Education Conference, Berkeley, CA.

- Glover, T. A., Ihlo, T., Parisi, D. M., Hofstadter, K. L., Nugent, G., Welbourne, T., Bovaird, J. A., Kupzyk, S. S., Trainin, G., & Shapiro, E. S. (2010, June). *Rural teachers' professional development, instructional knowledge, and classroom practice: Initial findings from a national survey*. Paper presented at the 2010 IES Research Conference, Institute of Education Sciences, Washington, DC.
- Nugent, G., Grandgenett, N., Barker, B., & Adamchuk, V. (2010, May). *The impact of robotics and geospatial instruction on student STEM attitudes*. Paper presented at the 2010 AERA Annual Meeting, Denver, CO.
- Barker, B., Nugent, G., Nelson, C., Grandgenett, N., & Adamchuk, V. (2010, March). *GearTech 21: Geospatial and robotics technologies for the 21st century*. Poster session at the National Science Foundation ITEST Summit, Washington, DC.
- Sheridan, S., Glover, T., Nugent, G., Kunz, G., & Bovaird, J. (2009, October). *National Center for Research on Rural Education: Pioneering new frontiers in rural education research*. Paper presented at the National Rural Education Association Conference, Cincinnati, OH.
- Sheridan, S. M., Glover, T., Nugent, G., Kunz, G., & Bovaird, J. (2009, October). *National Center for Research on Rural Education: Pioneering new frontiers in rural education research*. Paper presented at the National Rural Education Association Annual Convention and Research Symposium, Branson, MO.
- Barker, B., Grandgenett, N., Nugent, G., & Adamchuk, V. (2009, February). *Scaling up the 4-H robotics and GPS/GIS project*. Paper presented at the National Science Foundation's ITEST Summit, Washington, DC.
- Barker, B., Nugent, G., Adamchuk, V., & Grandgenett, N. (2009, February). *Robotics and GIS/GPS in 4-H: Scale-up*. Poster session at the National Science Foundation ITEST Summit, Washington, DC.
- Rockwell, K., Albrecht, J., Nugent, G., & Kunz, G. (2008, November). *Integrating photography for process evaluation and outcome documentation*. Paper presented at the Annual Conference of the American Evaluation Association, Denver, CO.
- Barker, B., Grandgenett, N., Nugent, G., & Adamchuk, V. (2008, October). *The short-term benefits of educational robotics when paired with geospatial technologies in informal learning environments*. Paper presented at the E-Learn Conference, Las Vegas, NV.
- Marvin, C., Nugent, G., & Doll, B. (2008, October). *Free and for-fee infant services: Parental choices for Medicaid-eligible children*. Paper presented at the 27th Annual International Conference on Young Children with Special Needs and Their Families, Minneapolis, MN.

- Barker, B., Grandgenett, N., Adamchuk, V., & Nugent, G. (2008, May). *Robotics and GIS/GS in 4-H: Workforce for the 21st century*. Poster presentation at International Technology and Engineering Educators Association annual conference, Las Vegas, NV.
- Barker, B., Nugent, G., Adamchuk, V., & Grandgenett, N. (2008, February). *Robotics and GIS/GPS in 4-H*. Poster session at the National Science Foundation ITEST Summit, Washington, DC.
- Grandgenett, N., Barker, B., Nugent, G., & Bing, C. (2008, February). *Robotics and STEM learning: Identifying curriculum touch points*. Paper presented at the National Science Foundation ITEST Summit, Washington, DC.
- Barker, B., Nugent, G., Kramer, K., & Grandgenett, N. (2007, October). *Nebraska 4-H robotics programs and research findings*. Paper presented at the 2007 NAE4-HA Conference, Atlanta, GA.
- Barker, B., Nugent, G., Kramer, K., & Grandgenett, N. (2007, October). *Robotics and geospatial technologies in after-school SET activities*. Pre-conference session at the 2007 NAE4-HA Conference, Atlanta, GA.
- Barker, B., Nugent, G., Adamchuk, V., & Grandgenett, N. (2007, February). *Robotics and GIS/GPS in 4-H*. Poster session at the National Science Foundation ITEST Summit, Washington, DC.
- Kunz, G., & Nugent, G. C. (2006, April). *Inquiry-based learning and instruction in science for pre-service teachers*. Paper presented at the Conference of the American Educational Research Association, Chicago, IL.
- Nugent, G. C., & Kunz, G. (2006, April). *Inquiry and field-based learning and instruction for pre-service teachers*. Paper presented at the 2006 Annual International Conference of the National Association for Research in Science Teaching, New Orleans, LA.
- Nugent, G., Kunz, G., Levy, R., Harwood, D., & Carlson, D. (2005, April). *The assessment of a field-based inquiry-focused model of instruction on pre-service teachers' science learning and attitudes*. Paper presented at the 2005 Annual International Conference of the National Association for Research in Science Teaching, San Francisco, CA.
- Nugent, G. C. (2005, January). *Bridges Project research and evaluation*. Paper presented at the National Educational Telecommunications Association Annual Conference, Charleston, SC.

- Nugent, G. C. (2003, May). *Comparison of K–12 and higher education distance education policies: Nebraska as a case study*. Paper presented at the Texas Distance Learning Association Conference, Odessa, TX.
- Nugent, G. C. (2002, February). *On-line assessment for K–4*. Paper presented at the Consortium for School Networking Conference, Washington, DC.
- Nugent, G. C., Fairchild, P. F., King, J. W., King, K. E., & Husmann, D. (2002). *An analysis of online courses using the principles of effective instruction*. Paper presented at the Distance Learning Administration Annual and Conference, Jekyll Island, GA.
- Nugent, G. C., & Ganzel, B. (2001, January). *Curriculum connections: Educational video on demand*. Paper presented at the annual conference of the National Educational Telecommunications Association, Savannah, GA.
- Nugent, G. C. (2000, June). *Obstacles and facilitators to distance education students*. Paper presented at the Distance Learning Administration Annual Conference, Callaway Gardens, GA.
- Nugent, G. C., & Stone, C. G. (1982). *Mediated instruction for the hearing impaired*. Paper presented at the Convention of the Association for Educational Communications and Technology, Dallas, TX.
- Nugent, G. C. (1981). *Interactive videodisc: The idea becomes a reality*. Paper presented at the Conference of the Association for the Development of Computer-based Instructional Systems, Atlanta, GA.
- Nugent, G. C., & Stone, C. G. (1981). *Design and production of videodiscs for the hearing impaired*. Paper presented at the Convention of the Association for Educational Communications and Technology, Philadelphia, PA.
- Nugent, G. C. (1980). *Design of interactive videodiscs for the hearing impaired*. Paper presented at the Society for Applied Learning Technology Conference on Interactive Videodisc in Education and Training, Arlington, VA.
- Nugent, G. C. (1980). *The videodisc: New technology for teaching the handicapped*. Paper presented at the Symposium on Media Materials for the Severely Handicapped, Nashville, TN.
- Nugent, G. C., Nugent, R. W., Stone, C. G., & Danielson, J. B. (1980). *Videodisc design and production strategies*. Paper presented at the Convention of the Association for Educational Communications and Technology, Denver, CO.

Nugent, G. C. (1979). *Television and utilization training: How do they influence learning?* Paper presented at the Convention of the National Association of Educational Broadcasters, Chicago, IL.

Nugent, G. C. (1979). *The videodisc: A new tool for teaching.* Paper presented at the biennial convention of the American Instructors of the Deaf, Austin, TX.

### **Local and Regional Conferences**

Namuth-Covert, D., Wang, Z., Kohmetscher, A., & Nugent, G. (2015, May). Poster presented at Ohio State University Innovate Conference, Columbus, OH.

Whitham, R., Kunz, G. M., Nugent, G. C., Kalutskaya, I., & White, D. (2015, April). *Impact of professional development: Inquiry skills acquisition.* Poster presented at the 2015 UNL Research Fair, Lincoln, NE.

Nugent, G., Kunz, G. M., Pedersen, J., & Houston, J. (2014, December). *CSI: Coaching science inquiry in rural schools.* Poster presented at the Nebraska Summit on Math and Science Education, Lincoln, NE.

White, A. S., Kunz, G. M., Howell Smith, M., Houston, J., & Nugent, G. (2014, December). *Active ingredients of coaching: Development and validation of a theoretical framework.* Poster presented at the Nebraska Summit on Math and Science Education, Lincoln, NE.

Kalutskaya, I., Kunz, G. M., Berry, B., & Nugent, G. (2014, October). *Exploration of a growth model for skills acquired in professional development of guided scientific inquiry instruction.* Poster presented at University of Nebraska–Lincoln College of Education and Human Sciences Research Showcase, Lincoln, NE.

White, A. S., Kunz, G. M., Howell Smith, M., Houston, J., & Nugent, G. (2014, October). *Active ingredients of coaching: Development and validation of a theoretical framework.* Poster presented at University of Nebraska–Lincoln College of Education and Human Sciences Research Showcase, Lincoln, NE.

White, A. S., Kunz, G. M., Whitham, R., Houston, J., & Nugent, G. (2014, October). *Guided science inquiry instruction with special education students.* Poster presented at University of Nebraska–Lincoln College of Education and Human Sciences Research Showcase, Lincoln, NE.

- Whitham, R., Kunz, G. M., Nugent, G. C., & Kalutskaya, I. (2014, April). *Impact of professional development on inquiry skills demonstrations: Pilot study*. Poster presented at the 2014 UNL Research Fair, Lincoln, NE.
- Nugent, G., Barker, B., Grandgenett, N., & Welch, G. (2012, November). *Geospatial and robotics technologies for the 21st century*. Poster presentation at the UNL CEHS Research Fair, Lincoln, NE.
- Nugent, G., Kunz, G., & Houston, J. (2012, November). *CSI: Coaching science inquiry in rural schools*. Poster presentation at the UNL CEHS Research Fair, Lincoln, NE.
- Kunz, G. M., & Nugent, G. (2012, March). *Opportunities from the National Center for Research on Rural Education*. Presentation at the Nebraska Rural Community Schools Association Spring Conference, Kearney, NE.
- Nugent, G., DeChenne, S., & Houston, J. (2012, January). *Survey results from national and Nebraska science teachers' professional development and inquiry knowledge*. Presentation at the Nebraska Science Cadre Meeting, Kearney, NE.
- Nugent, G., DeChenne, S., & Houston, J. (2011, December). *Survey results from national and Nebraska science teachers' professional development and inquiry knowledge*. Presentation at the Metro Area Science Coordinators Meeting, Millard, NE.
- Nugent, G., DeChenne, S., & Kunz, G. (2011, September). *Survey results from Nebraska science teachers' inquiry knowledge, practice and professional development*. Presentation at the Nebraska Association of Teachers of Science annual conference, Fremont, NE.
- Sexton, E., Nugent, G., & Kunz, G. (2008, April). *Differential responses of males and females in a field-based undergraduate geosciences course*. Presentation at the University of Nebraska Research Fair, Lincoln, NE.
- Nugent, G. C. (2003, July). *National Center for Information Technology in Education*. Presentation at the Midwest Internet Institute, Lincoln, NE.
- Nugent, G., & Bendus, O. (2003, April). *On-line assessment: The Bridges project*. Presentation at the Nebraska Educational Technology Association, Omaha, NE.
- Nugent, G. C. (2002, July). *Digital content with on-line assessment*. Presentation at the Midwest Internet Institute, Lincoln, NE.



Nugent, G. C., King, J., & Jones, J. (2002, June). *K–12 distance education policy: New models for synchronous and asynchronous delivery*. Paper presented at the Nebraska Distance Learning Association, Omaha, NE.

Nugent, G. C. (2001, April). *Educational video on demand*. Presentation at the Nebraska Educational Technology Association Conference, Omaha, NE.

Nugent, G. C. (1997, April). *Distance education in Nebraska*. Presentation at the Nebraska Educational Technology Association Conference, Omaha, NE.

Nugent, G. C. (1995). *Technology in Nebraska*. Presentation at the NASHET Workshop, Grand Island, NE.

Nugent, G. C. (1981). *Videodisc: The idea becomes reality*. Presentation at the Iowa Association for Educational Data Systems Conference, Des Moines, IA.

Nugent, G. C. (1980). *The MDPHI videodisc project*. Presentation at the National Conference of Executives of American Schools for the Deaf, Omaha, NE.

Nugent, G. C., & Stone, C. G. (1980). *Videodisc update*. Presentation at the 13th Symposium on Research and Utilization of Educational Media for Teaching the Deaf, Lincoln, NE.

### **Invited Presentations and Workshops: National**

Nugent, G. C., Kunz, G. M., & Houston, J. (2015, May). *Sustainable coaching for science teachers: Distance-based peer coaching*. Invited webinar, REL Central (Regional Educational Laboratory Program), Centennial, CO. Retrieved from <https://www.relcentral.org/news-and-events/sustainable-coaching-for-science-teachers-distance-based-peer-coaching/>

Barker, B., Nugent, G., Grandgenett, N., Knestis, K., & Parker, C. (Panelists). (2015, February). *STELAR Webinar: The new face of research and evaluation in ITEST projects*. Invited webinar for the National Science Foundation, Lincoln, NE.

Nugent, G. (2013, March). *GEAR-Tech 21 evaluation and research*. Workshop of the GEAR-Tech 21 Regional Trainers, Lincoln, NE.

Kunz, G. M., Lefler, V., Glenn, T., Nugent, G. C., & Rilett, L. R. (2011, June). *Transportation curriculum development using technology application and student experiences in STEM: Purpose and impact*. Presentation during site visit of the U.S. Department of

Transportation's Garrett A. Morgan Technology and Transportation Education Program Officer, Lincoln, NE.

Nugent, G., & Kunz, G. M. (2011, March). *CSI: Coaching science inquiry in rural schools*. Invited presentation at the meeting of the Institute of Education Sciences Improving Mathematics and Science Outcomes in Middle School, Washington, DC.

Kunz, G., Barker, B., & Nugent, G. (2009, December). *STEM education in rural settings*. Presentation at the Nebraska Summit on Mathematics Education, Lincoln, NE.

Nugent, G. C. (2008, November). *Participation in the ITEST community*. Presentation at the National Science Foundation ITEST Webinar, Arlington, VA.

Barker, B., Nugent, G., & Kramer, K. (2007, September). *Nebraska 4-H Robotics: Programs and research findings*. Presentation at the Educational Technology Forum for Teachers College, University of Nebraska–Lincoln, Lincoln, NE.

Nugent, G. C., & Kunz, G. (2007, June). *Evaluation considerations for implementation projects*. Presentation at the National 4-H SET Conference, Lincoln, NE.

Nugent, G. C., & Lang, J. (2003, October). *Keeping our research promise through NCERT collaboration*. Paper presented at the National Center for Education Research in Technology fall conference, Sawgrass, FL.

Nugent, G. C., & Hochstein, J. (2002, June). *The future of e-learning*. Presentation at the AVLN Distance Learning Conference, Collegedale, TN.

Nugent, G. C., & Hawkins, M. (1995). *Going the distance project in Nebraska*. National PBS satellite presentation.

Nugent, G. C. (1981–82). *Videodisc instructional design and scripting*. Presentation at four National Videodisc Design/Production Workshops, Lincoln, NE.

Nugent, G. C. (1981). *Videodisc instructional design*. Presentation at Interactive Videodisc and Media Storage in Education and Training Professional Development Seminar, Learning Technology Institute, Washington, DC.

Nugent, G. C. (1980). *The design, production, and utilization of the videodisc*. Presentation at the Creative Concepts III Workshop: Educational Interface—Teaching, Learning, and Technology, Lehigh University, Bethlehem, PA.

Nugent, G. C. (1980). *Design of interactive videodiscs for the hearing impaired*. Presentation at Society for Applied Learning Technology Conference on Interactive Videodisc in Education and Training, Arlington, VA.

### **Invited Presentations and Workshops: State and Local**

- Nugent, G., Houston, J., Kunz, G., Kalutskaya, I., Welch, G., & Wu, C. (2015, March). *The effectiveness of e-coaching in rural science classrooms*. Invited presentation of the Discipline-Based Education Research Seminar, University of Nebraska–Lincoln, Lincoln, NE.
- Nugent, G., Kunz, G. M., Pedersen, J., & Houston, J. (2014, December). *CSI: Coaching science inquiry in rural schools*. Poster presented at the Nebraska Summit on Math and Science Education, Lincoln, NE.
- White, A. S., Kunz, G. M., Howell Smith, M., Houston, J., & Nugent, G. (2014, December). *Active ingredients of coaching: Development and validation of a theoretical framework*. Poster presented at the Nebraska Summit on Math and Science Education, Lincoln, NE.
- Guretzky, J., Kohmetscher, A., Namuth Covert, D., & Nugent, G. (2014, May). *Course evaluation beyond the CIEQ*. Presentation at the Teaching Retreat, UNL Department of Agronomy and Horticulture, Lincoln, NE.
- Namuth-Covert, D., Francis, C., Kohmetscher, A., Leingang, D., Vavala, R., Nugent, G., & Dyop, N. (2014, February). *A decade of online international impacts and partnerships through the plant and soil sciences e-library*. Presentation at the UNL Department of Agronomy and Horticulture Seminar, Lincoln, NE.
- Nugent, G., Kunz, G., Pedersen, J., Houston, J., Lee, S. C., & Hall, M. (2014, January). *Coaching science inquiry in rural schools*. Presentation at UNL Discipline-based Education Research Seminar, Lincoln, NE.
- Kunz, G. M., Nugent, G. C., & Pedersen, J. E. (2013, November). *Technology-based support for rural teachers' science classroom instruction*. Invited poster presented at the 2013 Rural Futures Conference: Beyond Boundaries, Lincoln, NE.
- Kunz, G. M., Nugent, G., Glover, T., Knoche, L., Hayden, B., Jr., Olson, M., Smith, P., Wistrand, P., & Knapp, B. (2013, April). *Coaching as a form of professional development to support rural teachers*. Presentation at the annual interdisciplinary symposium for the Center for Great Plains Studies, Kearney, NE.

- Kunz, G. M., Nugent, G. C., Houston, J., & Coover, P. (2013, March). *National Center for Research on Rural Education: Progress to date*. Invited presentation at the Spring Conference for the Nebraska Rural Community Schools Association, Kearney, NE.
- Houston, J., Olson, M., Coover, P., Kendall, S., Hayden, B., Jr., Nugent, G., Kunz, G., & Pedersen, J. (2013, February). *CSI: Coaching science inquiry in rural schools*. Poster session presented at University of Nebraska College of Education and Human Sciences, Lincoln, NE.
- Wilson, R., Barker, B., Nugent, G., Namuth-Covert, D., Heaton, R., & Becker, D. (Panelists). (2011, October). *IANR National Science Foundation Workshop*. Panel of National Science Foundation Grant Recipients, Lincoln, NE.
- Nugent G. C., & Kunz, G. (2010, November). *National Center for Research on Rural Education professional development activities*. Presentation at ESU Staff Development State Meeting, LaVista, NE.
- Nugent, G. C. (2010, September). *Evaluating and assessing grant education programs*. Presentation at the NASA Western Region Space Grant Director's Meeting, Omaha, NE.
- Sheridan, S. M., Glover, T. A., Nugent, G. C., Kunz, G. M., & Bovaird, J. A. (2010, March). *National Center for Research on Rural Education: Nebraska directions and perspectives*. Paper presented at the spring conference of the Nebraska Rural Community School Association, Kearney, NE.
- Kunz, G., Barker, B., & Nugent, G. (2009, December). *STEM education in rural settings*. Presentation at the Nebraska Summit on Math Education, Lincoln, NE.
- Vlasin, R., Nugent, G., Larson, S., & Johnson, L. (2008, April). *Education and workforce development issues*. Panel presentation at the Nebraska Transportation Summit, Lincoln NE.
- Nugent, G. C., & Kunz, G. (2006, September). *Field-based geoscience and inquiry instructional for pre-service teachers*. Presentation as part of T. Myland Stout Lecture Series, Department of Geosciences, University of Nebraska–Lincoln, Lincoln, NE.
- Nugent, G., & Hochstein, J. (2002, April). *Future of e-learning and e-training*. Presentation to Lincoln chapter of the American Society of Training and Development, Lincoln, NE.
- Nugent, G. C. (2001, March). *Distance education opportunities and limitations*. Presentation at UNL Distance Learning Forum breakfast, Lincoln, NE.

Nugent, G. C. (1996). *Promising technologies and models for distance education*. Presentation at the Metropolitan Community College Conference Competing for the Virtual Learner, Omaha, NE.

Nugent, G. C. (1996, March). *Multimedia authoring*. Presentation at NETCHE Basic Multimedia Workshop, Lincoln, NE.

Nugent, G. C. (1995, October). *Multimedia authoring*. Presentation at NETCHE Basic Multimedia Workshop, Lincoln, NE.

Nugent, G. C. (1995, February). *Going the distance: Your college degree is closer than you think*. Keynote presentation at the Adult and Continuing Education Association of Nebraska Convention, Kearney, NE.

Nugent, G. C. (1982, October). *The videodisc in education*. Presentation at the Kansas Association for Educational Data Systems Conference, Salina, KS.

Nugent, G. C. (1980). *Videodisc project at the Barkley Memorial Center*. Presentation at the National Symposium on Videodisc Programming, Lincoln, NE.

## **MEDIA INSTRUCTIONAL PRODUCTS**

During my 22-year tenure with Nebraska Educational Telecommunications I coordinated the design and production of more than 325 television and interactive multimedia products. A sampling of these creative products is listed below.

### **Interactive Multimedia Projects**

*Bridges On-line Assessment Project*. (2003). On-line assessments developed around *Reading Rainbow* interactive activities.

*Instructional Design*. (2003). An interactive Web site allowing the user to build an instructional design blueprint. Activities, samples, references, and a discussion board guide the user through the process.

*Nebraska Studies Project*. (2002). A web-based database of Nebraska history materials and primary sources. Retrieved from <http://nebraskastudies.org>

*Physics of Light.* (2002). A CD-ROM including instructional lessons, interactive demos, and video clips addressing reflection of light, refraction of light, and color of light.

*Communities on the Prairie.* (1999). A CD-ROM project showing the impact of culture, history, and geography in the development of Nebraska communities.

Industrial Engineering 406-806. (1987). A series of web-based instructional tutorials and case studies to support a graduate level course delivered at a distance.

*Discover Nebraska.* (1986). A touch-screen kiosk combining video clips, still images, and textual information about Nebraska attractions, parks, events, and lodging.

*Teaching in a Rural Society.* (1986). An interactive computer simulation designed to accompany a television production designed for pre-service teachers.

*Marketing.* (1985). Interactive computer courseware with accompanying study guides representing a complete undergraduate college course in marketing. The interactive components, making extensive use of color graphics, included tutorials/simulations and self-check tests for each of the twelve lessons. The course received the Distinguished College Credit Independent Study Course Award from the National University Continuing Education Association (now known as UCEA).

*Business Writing, Marriage and the Family, and Political Systems.* (1985). An interactive cable college course utilizing Cox Cable's two-way interactive system. The course package included interactive videotex tutorials, simulations, and self-check tests, as well as textbook and study guide. *Marriage and the Family* received the Distinguished College Credit Independent Study Course Award from the National University Continuing Education Association (now known as UCEA).

*Think It Through.* (1982). Two interactive videodisc simulations designed to teach thinking and reasoning skills. This disc was a national award winner of the Johns Hopkins First National Search for Personal Computing to Aid the Handicapped, 1982.

*Language and Learning in the Home.* (1982). A videodisc project designed to help parents develop language skills with their preschool hearing impaired children.

*Words in Motion.* (1982). A videodisc program to teach reception fingerspelling skills.

## Television Projects

Nebraska television productions were developed for use by the state's postsecondary students. These programs are broadcast-quality productions which aired statewide via the Nebraska ETV Network and were distributed and sold nationally by Great Plains National Instructional Television Library. Earlier projects (1974–1976) were developed for broadcast via the statewide Georgia ETV Network or for videocassette and closed circuit delivery to various K–12 and postsecondary audiences.

*La Vida: A Journey of Latinos throughout Nebraska.* (2001). Uses personal interviews and oral histories to describe the lives of Latinos across Nebraska in 2001.

*Coming Out in Rural Nebraska.* (1999). Examines problems of being gay in a rural environment. This program was voted the nation's outstanding instructional television program in 2000 by the National Education Telecommunications Association.

*Shelia Hicks: Soft World.* (1999). A documentary focusing on the life and works of this Nebraska-born fiber artist.

*How to Succeed as a Distance Learner.* (1998). Presents strategies to help students succeed in a distance education environment.

*Ethnic Identity.* (1998). Examines the Vietnamese community in Nebraska and discusses how ethnic identity is maintained.

*Math and Science through the Eyes of Culture.* (1997). Shows how cultural heritage can provide a basis for approaching math and science problems.

*Focus on Computer Technology Careers.* (1997). Promotes awareness of computer-related professions and their educational requirements.

*ADD—Not Just Kid Stuff.* (1997). Deals with the manifestations, diagnosis, interventions, and treatment of Attention Deficit Disorders in adults.

*College Study Skills.* (1995 – 1997). A series of four 30-minute television programs in the areas of critical thinking skills, memory skills, cognitive learning styles, and math study skills.

*Voices on the Prairie.* (1996). Showcases three Nebraska poets who have published in *Prairie Schooner*, Nebraska's widely acclaimed literary magazine.

*Making Your Team Work.* (1995). Presents the process and skills needed to create, staff, and manage complex teams.

*How Dare We Call it Dirt?* (1994). A two-part television series that examines the make-up of soil and the role of soil in the hydrologic, carbon and nitrogen cycles.

*Words that Made a Difference.* (1994). Features reenactments of speeches by Sojourner Truth, Frederick Douglass, and Red Jacket.

*Bertice Berry: Racism on Campus.* (1994). Features Dr. Bertice Berry, a former professor of sociology, who is now a full-time comedian.

*Nebraska's Role in the Global Economy.* (1993). A teleconference and television program that examines Nebraska's global ties and connections and their importance to the economic development of the state.

*Flowers of the Motherland: Chinese Children at Preschool.* (1993). Filmed on-location at a preschool in Guangzhou, China, documenting a typical day of four kindergarten children.

*Country Clubs: City Gangs in Rural Areas.* (1993). Examines the sociological, psychological, and economic aspects of gang membership.

*Playground Adventures.* (1992). Shows how a playground becomes an "outdoor classroom."

*Women's Work.* (1991). Presents the real-life experiences of women employed in technical careers.

*Legal Aspects of Teaching.* (1991). A two-part television series that focuses on typical causes and procedures of legal problems for teachers.

*Expanding Visions of Art Education.* (1991). Introduces the philosophy and techniques of discipline-based art education.

*Reach Out and Teach Someone.* (1991). A national teleconference and television program that demonstrates how various technologies are being employed in Nebraska for distance education.

*Remote Sensing.* (1990). A three-part television series describing what remote sensing is, how it is done, and why it is important.

*Values in Science.* (1978). Eight "trigger tapes" designed to generate college student discussion on value-based issues.



*STRETCH (Strategies for Training Regular Educators to Teach Children with Handicaps. (1976).* A staff development series consisting of twelve television modules.

*Red, White, and You. (1976).* A first-grade bicentennial television series.

*Consumer Education. (1975).* A thirty-program, postsecondary instructional television series produced for use in consumer education classes in vocational technical schools in Georgia.

*A Systems Approach for Staff Development. (1975).* A series of six television programs designed as a college course to support the Georgia Department of Education's staff development effort.

*Contemporary Developments in Georgia Public Education. (1975).* A series of television programs designed for closed circuit use in college undergraduate education classes.

## **TEACHING EXPERIENCE**

### **University of Nebraska**

Educational Psychology 898, Grant Writing I

Summer 2005, Summer 2006, Summer 2007, Summer 2008, Spring 2009, Spring 2010, Spring 2011, Spring 2012, Spring, 2013, Spring, 2014, Spring 2015

Educational Psychology 898A, Grant Writing II

Spring 2007, Fall 2008, Spring 2010, Fall 2012

As the lead instructor for EPS 898, Grant Writing, I have coordinated the support of 45 graduate students and six post-docs in developing grant-writing skills. Seventeen grants were submitted by students in the class, and four were funded. Many other proposals prepared as part of the class contributed to meeting student comprehensive exam requirements.

Agricultural Leadership, Education and Communication 896, Research Design  
Spring 2000

Educational Psychology 859, Statistics

Spring 1994, Spring 1994, Spring 1995 (distance delivery), Spring 2005

Educational Psychology 459/859, Statistics

Spring 1987, Spring 1988, Fall 1988, Spring 1989

Educational Administration 861, Instructional Design  
Spring 1982

### **K–12 Teaching Certification**

Texas Teaching Certificate, secondary level

### **FACULTY AND POST-DOC MENTORING**

#### **Faculty Mentoring**

Co-Director, UNL College of Education and Human Sciences Scholarly Enhancement Program, 2004 – 2007.

This College-wide program aims to increase the success of pre-tenured or not fully promoted faculty in writing for publication; integrating their teaching, research, and outreach; and securing funds to support their scholarship. Assisted 13 faculty through this College program.

Assisted 56 faculty members in grant submissions, including conceptualization of the research idea, scouting for appropriate funding opportunities, facilitating discussions with other potential research team members (e.g., other researchers in the NU system that could be potential collaborators of the team to strengthen the proposal), writing relevant portions of the grant, assisting with development of budget and budget justification, assisting with compilation of the grant materials, and coordinating campus entities (e.g., the Research Office, Sponsored Programs, the College-level supports) for routing and submission purposes.

#### **Post-doc Mentoring**

Dr. Sue Ellen DeChenne, post-doc working on National Center for Research on Rural Education grant from the U.S. Department of Education (2010 – 2012)

Dr. Soon Chun Lee, post-doc working on National Center for Research on Rural Education (Coaching Science Inquiry) from U. S. Department of Education (2012 – 2014)

## STUDENT COMMITTEES AND ADVISING

### Undergraduate Creative Activities and Research Experiences (UCARE) Supervisor

Fall, 2015 – Spring, 2015 (one student)

Fall 2011 – Spring 2013 (one student)

Fall 2008 – Spring 2010 (one student)

Fall 2006 – Spring 2008 (one student)

The 2011 – 2013, 2008 – 2010 and 2006 – 2008 UCARE students presented posters at the UNL Undergraduate Research Conference:

Riggs, A. (2013, April). *Family, peer, and facilitator influence on students' STEM knowledge and career interests*. Poster session at the UNL Undergraduate Research Conference.

White, A. (2010, April). *Factors impacting interest in STEM fields among 4-H robotics camp participants*. Poster session at the UNL Undergraduate Research Conference.

Sexton, E. (2008, April). *Differentiated gender responses to an inquiry-based science class*. Poster session at the UNL Undergraduate Research Conference.

### Graduate Committee Member

Luo, Linlin – Educational Psychology (Ph.D.) – In progress

Valentine, Dagan – Applied Science (Masters) – In progress

Houston, James – Educational Administration (Ed.D.). Dissertation: *Coaching for change: Amount of instructional coaching support to transfer science inquiry skills from professional development to classroom practice*, 2015

Coutts, Mike – Educational Psychology (Ph.D.). Dissertation: *Conjoint Behavioral Consultation via distance delivery (CBC-D): An evaluation of efficacy and acceptability*, 2015

Rodeck, Elaine – Educational Psychology (PhD). Dissertation: *Development of high-stakes credentialing examination test specifications using statistical models to compare with the test specifications from a holistic judgmental model*, 2008.

Hunt, Tad M. – AgLEC (Masters). Thesis: *Community college faculty use of the "principles of good practice" in on-line distance education*, 2003.

King, Kirsten – AgLEC (Masters). Thesis: *Graduate students' expectations of Web-based distance education in the AgLEC Department at the University of Nebraska–Lincoln, 2002.*

Miller, L. D. – Computer Science and Engineering (PhD). Dissertation: *Cluster-based boundary of use for selective improvement to supervised learning*

### **Graduate Research Supervision/Mentoring**

Irina Kalutskaya, graduate assistant working on U.S. Department of Education National Center for Research on Rural Education (2011 – 2015).

LinLin Luo, graduate assistant working on U.S. Department of Education National Center for Research on Rural Education (2011 – 2014).

Andrew (Drew) White, graduate assistant working on U.S. Department of Education National Center for Research on Rural Education (2013 – 2015).

Leyla Masmaliyeva, graduate assistant working on National Science Foundation ILOG project (2010 – 2011).

Assisted five students in grant submissions; one of these students was awarded a \$50,000 Head Start Graduate Student Research Grant.

### **PROFESSIONAL AFFILIATIONS**

National Association of Research in Science Teaching, 2005 – Present

Association of Science Teacher Education, 2012 – 2014

Association for the Advancement of Computing in Education, 2003 – Present

AERA, 2010 – 2011

American Society for Engineering Education, 2009 – 2010

### **PROFESSIONAL/PUBLIC SERVICE**

#### **Grant Review: National**

National Science Foundation Proposal Review

Division of Elementary, Secondary, and Informal Education  
Informal Science Education March 2–4, 2005, Washington, DC  
Informal Science Education, February 13–15, 2006, Washington, DC  
Informal Science Education, February 12–14, 2007, Washington, DC

Division of Research on Learning in Formal and Informal Settings (DRL)  
Advancing Informal STEM Learning February 10–11, 2015, Washington DC  
Innovative Technology Experiences for Students and Teachers (ITEST), June 9 – 10, 2008,  
Washington, DC  
Informal Science Education Virtual Panel, August 19–21, 2009

### **Grant Review: Regional and State**

Distance Education Training Module Development, Nebraska Department of Education  
Preparing Tomorrow's Teachers Catalyst Grant, 2000 – 2001

Reviewer, Nebraska Technology Literacy Challenge Fund (Title I of Improving America's School Act), Spring, 1998 – 1999

Reviewer, Dwight D. Eisenhower Professional Development Program, December, 1998

Coordinated the administration of a distance education training grant program, funded by the state of Nebraska at \$130,000 per year. All public K–12 and higher education institutions were eligible to apply for grants to develop and deliver training programs for distance education administrators and instructors.

### **Journal Reviews**

Guest Reviewer, Association for Educational Communications and Technology: *TechTrends: Linking Research and Practice to Improve Learning*, 2005

Guest Reviewer, *Journal of Research in Science Teaching*, 2006

Guest Reviewer, *Robotics and Autonomous Systems Journal*, 2010

### **Book Reviews**

Kirk, R. E. (1990). *Statistics: An introduction* (3rd ed.). New York, NY: Holt, Rinehart, & Winston.

## **Advisory Boards/Task Forces/Conference Committees**

University of Nebraska–Lincoln Mabel Lee Remodel Committee, September–December, 2015.

Program Committee, Teaching, Robotics & Teaching with Robotics International Conference, Padova, Italy, July 18, 2014

Planning Committee, *Contemporary Issues in High Stakes Testing: A Festschrift for Barbara Plake*. Conference held May 17–19, 2007, Lincoln, NE. The conference resulted in a book, *High Stakes Testing in Education: Science and Practice in K–12 Settings* (J. Bovaird, K. Geisinger, & C. Buckendahl, Eds.).

Distance Education Task Force, Nebraska Department of Education, Preparing Tomorrow's Teachers Catalyst Grant, 2000 – 2002

Nebraska Department of Education Technology Consortium, 1997 – 2002

UNL Extended Education Programs Task Force, 1997 – 2002

UNL Distance Education Faculty Breakfast (one of original organizers), 1997 – 2002

Steering Committee, UNL Teaching Learning Technology Roundtable, 1996 – 2002

Technology Competencies for Teachers Task Force, Nebraska Department of Education, 1997 – 2000

Nebraska Network 21 Distance Education Task Force, 1997 – 1999

Technology/Distance Education Program Review, UNL Teaching Learning Center, 1998

Minimum Technology Competencies for Teachers Task Force, Nebraska Department of Education, 1997

Resource/Observer, NEB\*SAT Coordinating Council, 1997 – 1998

## **Other Research Experiences**

**UNL Research Fair 2008.** Co-hosted Dr. Joan Ferrini-Mundy, Director, NSF Division of Research and Learning, during her presentation and small group meetings during the 2008 Research Fair.

**National Center for Research in Rural Education Speakers Series.** Coordinated *Creating Rural Connections Speakers Series* and *Advanced and Opportunities in Rural Education Research Speakers Series*:

Dr. Louis Cicchinelli, Executive Vice President of Mid-continent Research for Education and Learning (McREL)

Dr. Jim Knight, Research Associate, University of Kansas' Center for Research on Learning and President of the Instructional Coaching Group

Dr. Cathy Cavanaugh, Associate Professor, University of Florida

## HONORS AND AWARDS

Best Paper Award, *A policy framework for distance education: Implications for decision makers*, Distance Learning Administration 2000 Conference, Callaway Gardens, Georgia (with J. King, E. Russell, J. Eich, and D. Lacy)

National Educational Telecommunications Association Outstanding Instructional Television Program, *Coming Out in Rural America*, 2000 (Nebraska Educational Telecommunications Council for Higher Education production)

Outstanding Contribution in Partnership in Educational Television, Metropolitan Community College, 1993

Distinguished College Credit Independent Study Award, *Marketing*, National University Continuing Education Association, 1985

Distinguished College Credit Independent Study Course Award, *Marriage and the Family*, National University Continuing Education Association, 1984

National Finalist, Johns Hopkins University National Search for Applications of Personal Computing to Aid the Handicapped, 1981

Maude Hammond Fling Fellowship, University of Nebraska, 1976 – 1978