

Carolyn Staudt

(a) Professional Preparation

University of Akron, Akron, OH, Education, Chemistry & Math Certification, B.A., 1976

Kent State University, Kent, OH, Computer Certification, 1983

Case Western Reserve University, Cleveland, OH, Physics Certification, 1987

Kent State University, Kent, OH, Science Education – Curriculum & Instruction, M.A., 1992

(b) Academic / Professional Appointments

KidSolve, Inc.; Vice President; The Concord Consortium, Concord, MA; Principal Investigator (Teaching Environmental Sustainability: Model My Watershed – DRK-12; Water SCIENCE – ITEST; Linking Complex Systems, CyberLearning; Integrating Meteorology, Mathematics, and Computational Thinking – STEM+C; Sensing Science Through Modeling Matter – DRK-12; Sensing Science: Temperature and Heat Readiness – DRK12; Graph Literacy – DRK-12; SmartGraphs – DRK-12; Innovative Technology for Science Inquiry: Scale-up and Information Technology in Science Instruction – ITEST; Universal Design for Learning Science – DRK-12); Co-PI (Evolution Readiness: A Modeling Approach – DRK-12; Concord Consortium Collection - NSDL), Curriculum/Professional Developer; 1996-Present LOGAL Softwares, Inc., Cambridge, MA; Curriculum/Professional Developer; 1994-1997 Copley High School, Copley, OH; AP Chemistry, AP Physics, Chemistry, Physics, Space Science and Geoscience teacher; 1987-1994
St. Vincent-St. Mary High School, Akron, OH; Chemistry, Physics, and Geometry teacher; 1981-1987

(c) Products

(i) Up to five publications most closely related to the proposed project

Staudt, C., Raymond, T. G., & Covitt, B. (2020). Teaching computational thinking through weather prediction in Alaskan villages. *@Concord*, 24(1), 4-6.

Kimball, N., Forman, G., & Staudt, C. (2019). Young children explore the particle world with apps. *@Concord*, 23(2), 10-11.

Staudt, C., Moher, T., & Massicotte, J. (2019). A virtual storm teaches computational thinking. *@Concord*, 23(1), 12-13.

Sarama, J., Clements, D., Nielsen, N., Blanton, M., Romance, N., Hoover, M., Staudt, C., Baroody, A., McWayne, C., & McCulloch, C. (2018). Considerations for STEM education from pre-K through grade 3. Waltham, MA: Education Development Center, Inc. – STEM Brief for the National Science Foundation

Marcum-Dietrich, N., Kerlin, S., & Staudt, C. (2018). Our watershed. *The Science Teacher*, 85(2), 39-46.

(ii) Up to 5 other significant publications

Staudt, C., & Broadhead, J. (2017). Sensing science through modeling matter. *@Concord*, 21(1), 12-13.

Littenberg-Tobias, J., Beheshti, E., & Staudt, C. (2016). To customize or not to customize? Exploring science teacher customization in an online lesson portal. *Journal of Research in Science Teaching*, 53(3), 349-367.

- Staudt, C., & Daniels, M. (2016). Monday's lesson: Can you filter your water? *@Concord*, 20(1), 7.
- Zucker, A., Kay, R., & Staudt, C. (2013). Helping students make sense of graphs: An experimental trial of SmartGraphs software. *Journal of Science Education and Technology*. Published online October 29, 2013. Available from <http://link.springer.com/article/10.1007/s10956-013-9475-3>.
- Zucker, A., Tinker, R., Staudt, C., & Mansfield, A. (2007). Learning science in grades 3-8 using probeware and computers: Findings from the TEEMSS II Project. *Journal of Science Education and Technology*, 17(1), 42-48. doi:10.1007/s10956-007-9086-y

(d) Synergistic Activities

- Staudt, C. (May, 2020). Early Childhood 3-day Workshop Invited professor at University of Geneva. Geneva, Switzerland.
- Staudt, C. (July, 2017). STEM Early Childhood Keynote. Shanghai, China.
- Staudt, C., Hazzard, E., & Gale, C. (2014). Innovative technology in science inquiry: Scale up. <http://www.concord.org/projects/itsi>.
- Staudt, C. (2014). Innovative technology in science inquiry. *@Concord*, 18(2), 4-6.
- Staudt, C., & Costello, K. (2010). ProbeSight: Taking a closer look at computer-based probeware in education, <http://probesight.concord.org>.
- Staudt, C., Tinker, R., Hazzard, E., & McIntyre, C. (2010). Universal design in science education, <http://www.concord.org/projects/udl> .
- Staudt, C. (2005). *Changing how we teach and learn using handheld computers*. Thousand Oaks, CA: Corwin Press.