**Jill K. Singer, Ph.D., SUNY Distinguished Teaching Professor**

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Website for EvaluateUR, EvaluateUR-CURE, & Evaluate Compete: serc.carleton.edu/evaluateur/index.html

**Professional Preparation:**

Rice University, Houston, TX Geology Ph.D. (1987)

Rice University, Houston, TX Geology M.A. (1983)

Buffalo State College, Buffalo NY Geology B.A., Summa Cum Laude (1979)

**Appointments and Leadership:**

**State University College at Buffalo (Buffalo State College), Buffalo, New York**

2019 – present: SUNY Distinguished Teaching Professor; 1998 – 2019: Professor; 1992 – 1998: Associate Professor; 1986 – 1992: Assistant Professor

1993 – 1998: Chair, Department of Earth Sciences and Science Education

**National Science Foundation**

#### 2007 – 2009 and 2001 – 2003: Program Director (rotator), Division of Undergraduate Education

**Council on Undergraduate Research (CUR)**

2004 – present: Emeritus Councilor, Undergraduate Research Directors/Geosciences; 2003 – 2005: Immediate Past President, President, President-elect; 1998 – 2010: Coordinator for workshops on Institutionalizing Undergraduate Research; 1998 – 2002: Geoscience Division Chair and Executive Board Member; 1992 – 2004: Geoscience Division Councilor

**SUNY Awards**

2019 SUNY Distinguished Teaching Professor (promotion to rank above Full Professor)

2016 Geological Society of America Fellow, *Elected*

2016 Council on Undergraduate Research Fellows Award (2 awards made every 2 years)

2008 SUNY Chancellor's Award for Scholarship and Creative Activities

2007 Buffalo State President's Award for Excellence as an Undergraduate Research Mentor

**Grants Received (past 5 years)**

NSF ATE, A New Approach to Evaluate Student Learning Outcomes Resulting from Participation in ROV Competitions, $751,458, 2019-2023

NSF ATE, Supplement **to** Preparing Future STEM Technicians by Using Assessment as a Teaching and Learning Tool in Course-based Research at Community Colleges (with Ilya Grinberg, Engineering Technology Department), $136,054

National Science Foundation, Advanced Technological Education, Proposal Title: Preparing Future STEM Technicians by Using Assessment as a Teaching Tool in Course-based Research, $727,323, 2018 – 2021

National Science Foundation, WIDER: Collaborative: Improving Undergraduate Education Through Community Building and Adoption of an Evidence-based Practice to Evaluate Undergraduate Research, *with* Elizabeth Ambos/Council on Undergraduate Research, Buffalo State’s budget: $659,046, 2015 – 2020

**Publications (past 5 years)**

**Abstracts (undergraduates underlined)**

Singer, J. and Zande, J., 2020, Evaluate-Compete: A method for assessing student outcomes in MATE’s ROV competitions, American Geophysical Union, virtual conference.

Fernando, A.H., Bayram, S., Singer, J., and Manley, T., 2020, Analysis of the changes in water elevation and oscillatory behavior in Buffalo River, Buffalo, New York, American Geophysical Union, virtual conference.

Singer, J., Weiler, D., Fox, S., Draeger, J., and Zimmerman, B., 2019, An overview of EvaluateUR-CURE: Measuring learning gains and providing student feedback, American Geophysical Union, San Francisco, CA.

Fornell, J., Singer, J., Manley, T., and Manley, P., 2019, Temporal changes in the morphology of the Buffalo River resulting from environmental dredging, American Geophysical Union, San Francisco, CA.

Paternostro, S. and Singer, J., 2019, The response of the Buffalo River to perturbations related to a multi-year environmental dredging project, Geological Society of America, Phoenix, AZ.

Singer, J., Fox, S., Weiler, D., and Zimmerman, B., 2019, Using EvaluateUR to complement and extend the mentoring process, Geological Society of America, Phoenix, AZ.

Ambos, B., Peterson, G., Phillips, L., and Singer, J., 2018, Council on Undergraduate Research partnerships in the geosciences, American Geophysical Union, Washington, DC.

Singer, J., Fox, S., Weiler, D., Zimmerman, B., Ambos, B., and Hewlett, J., 2018, EvaluateUR: An innovative approach to fostering and documenting growth in student outcomes in an undergraduate research program, Geological Society of America, Indianapolis, IN.

Paternostro, S., Bulger, N., Mernitz, J., Singer, J., and Bajo, J., 2018, Documenting changes to an urban river undergoing sediment removal: Restoration of the Buffalo River, Buffalo, NY, Geological Society of America, Indianapolis, IN.

Singer, J., Havholm, K. and Harris, J., 2018, Progress in scaling up an innovative evaluation method: Perspectives from pilot implementation sites and next steps, CUR Biennial Conference, Washington, DC.

Singer, J., Harris, J. and Havholm, K., 2018, Integrating Student Feedback and Evaluation: A Different Approach to Identifying and Documenting the Impact of Undergraduate Research, CUR Biennial Conference, Washington, DC.

Singer, J., 2017, From Wingspread to WIDER: My journey learning about evaluation, Geological Society of America, Seattle, WA.

Sverdrup, K., Singer, J., Ryan, J., Matty, D., and Lea, P., 2017, On the Cutting Edge: Perspectives from NSF Division of Undergraduate Education Geoscience Program Officers, Geological Society of America, Seattle, WA.

Ambos, E. and Singer, J., 2017, Adoption and implementation of a robust approach to evaluating intensive undergraduate research programs: Update on the EvaluateUR project, NCUR, Memphis, TN.

Bajo, J., Singer, J., Pfender, K., and Luther, B., 2016, Documenting temporal changes in channel geometry of the Buffalo River resulting from a large-scale environmental dredging project, American Geophysical Union, San Francisco, CA.

Singer, J., Manley, T.O., Manley, P., Bajo, J., Franks, B., Fuller, L., Luther, B., Miller, N., Monninger, S., Pfender, K., Ruhl, S., St. Germain, C., and Torsey, A., 2016, A river in transition: A quarter century of change for the Buffalo River, Buffalo, NY, Geological Society of America annual meeting, Denver, CO.

Singer, J., 2016, Geology of the Seven Summits: A theme-based course for teaching topics from tectonics to climate change, Geological Society of America annual meeting, Denver, CO.

Ryan, J. and Singer, J., 2016, The NSF Innovations in Undergraduate STEM Education (IUSE) Program, CUR Conference, Tampa, FL.

Singer, J. and Ambos, B., 2016, Improving undergraduate education through community building and adoption of an evidence-based practice to evaluate undergraduate research, CUR Biennial Conference, Tampa, FL.

Singer, J. and Ryan, J., 2015, The NSF IUSE-EHR Program: What's new (and old) about it, and resources for geoscience proposers, American Geophysical Union, San Francisco, CA.

Fox, L.K. and Singer, J., 2015, The Transformative impact of undergraduate research mentoring on students and the role of the Council on Undergraduate Research in supporting faculty members, American Geophysical Union, San Francisco, CA.

Singer, J., Ambos, E., Fox, S., Hewlett, J., Miller, J., Weiler, D., and Zimmerman, B., 2015, Improving undergraduate education through community building and adoption of an evidence-based practice to evaluate undergraduate research, Geological Society of America, Baltimore, MD.

Clayton, K., Singer, J., and Manley, T.O., 2015, The nature and behavior of oscillations in the Buffalo River, Buffalo, NY, USA, 36th IAHR World Congress, Netherlands, 4 p. extended abstract.

Kraft, M., Singer, J., Manley, T.O., and Manley, P., 2015, Hydrodynamics of a river undergoing environmental restoration: Buffalo River, Buffalo, NY, USA, 36th IAHR World Congress, Netherlands, 4 p. extended abstract.

Franks, B. and Singer, J., 2015, Water elevation changes in the Fox River, Green Bay, Wisconsin, International Association of Great Lakes Research, Burlington, VT.

**Proceedings – Peer Reviewed**

Singer, J. and McLaren, P., 2015, Using Sediment Trend Analysis to understand patterns of erosion and deposition in the Fox and Buffalo Rivers, 36th IAHR World Congress, The Hague, Netherlands, 9 p.

**Book Chapter**

Assessing Skills and Competencies Gained Through Undergraduate Research: The EvaluateUR Method,

2021, Cambridge University Press, authors: Jill Singer, Daniel Weiler, Bridget Zimmerman, Sean Fox,

and Elizabeth Ambos, in press.

**Workshops**

University of West Florida, May 6-7, 2020, EvaluateUR: A Method for Supporting Learning from Undergraduate Research and NSF101: How to Get Started and Tips (*virtual*)

CUR Biennial Conference, June 27-July 1, 2020, EvaluateUR: A Method for Supporting Learning from Undergraduate Research (*virtual*)

AAC&U: Transforming STEM Higher Education, November 2019, EvaluateUR: A New Approach to Support Learning from Undergraduate Research (withMary Crowe Florida Southern University)**,** Chicago, Il