# **Daniel Showalter**

Harrisonburg, VA 22802

daniel.showalter@emu.edu

#### Education

*PhD in Mathematics Education*, Ohio University (2011–2014) *MS in Mathematics*, Ohio University (2009–2011) *BS in Mathematics*, Urbana University (2000–2002)

### **University Teaching Experience**

| Eastern Mennonite University, Harrisonburg, VA   | 2015-present |  |
|--|--------------|--|
| Assistant/Associate/Full Professor of Mathematics, Department of Mathematical Sciences |              |  |
| Ohio University, Athens, OH  | 2009-2015    |  |
| Instructor/Visiting Assistant Professor, Department of Mathematics                     |              |  |
|  |              |  |

### **Related Teaching Experience**

| University of South Carolina: Summer IMMERSE Instructor                                     | 2022-2024  |  |
|---|------------|--|
| Instructor of 2 professor cohorts in quantitative methodology for rural education research  |            |  |
| MathPath, Lewis and Clark College, Portland, OR   | 2015, 2021 |  |
| Instructor (two 1-week courses)   |            |  |
| The College of William & Mary, Williamsburg, VA   | 2014       |  |
| Instructor for Korean Nobel Project through the Center for Gifted Education (6-day program) |            |  |

### **Grants and Awards**

- National Science Foundation grant for Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM, #2424309) (2025–2029, 1.9M). "STEM Scholars Engaging in Local Problems II". Co-PI.
- Robert V. Hogg Award for Excellence in Teaching Introductory Statistics (2023). Special Interest Group of the Mathematical Association of America (SIGMAA) on Statistics and Data Science Education. Presented at MathFest in Indianapolis, IN.
- John M. Smith Award for Distinguished College or University Teaching (2021). Mathematical Association of America: Virginia, Maryland, DC Section.
- National Science Foundation grant for Robert Noyce Teacher Scholarship Program (NOYCE, #2050250) (2021-2025, \$1.1 million). "STEM Teachers Applying Restorative Justice in Education Together". Co-PI.
- Excellence in Teaching Award: Tenured Professor Category, EMU (2020). Peer nominations and a selection committee of faculty/administration.
- National Science Foundation grant for Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM, #1741937) (2018–2022, 650K). "STEM Scholars Engaging in Local Problems". Co-PI.
- National Science Foundation grant for Improving Undergraduate STEM Education: Education and Human Resources (IUSE: HER, #1611713) (2016–2019, 300K). "Faculty-Led Institutional Transformation for Teaching Diverse Learners in STEM". Co-PI.
- American Educational Research Association's Institute on Statistical Analysis for Education Policy: Math Education and Large Datasets (2016). Washington, DC, 7% acceptance rate.
- American Educational Research Association's Institute on Statistical Analysis for Education Policy: Causal Inference (2013). Washington, DC, 15% acceptance rate.

## **Peer-Reviewed Journal Publications**

- Howley, C., Showalter, D., Ottley, J., Shin, J., et al. (Under Review). Scaffolding multilingual teaching practices: Development and validation of an observation instrument. *TESOL Journal*.
- Eppley, K., Showalter, D., Johnson, J., & Hartman, S. (Under Review). Equity spotlight: Conditions and characteristics of U.S. remote schools. *Educational Researcher*.
- Showalter, D. A. (2021). Attitudinal changes in face-to-face and online statistical reasoning learning environments. *Journal of Pedagogical Research*, 5(2). doi: 10.33902/JPR.2021269257
- Showalter, D. A., & Mullet, L. (2017). Sniffing out the secret poison: Selection bias in educational research. *Mid-Western Educational Researcher*, 29(3).
- Showalter, D. A. (2017). To math or not to math: The algebra-calculus pipeline and postsecondary mathematics remediation. *Journal of Experimental Education*, 85(4) doi: 10.1080/00220973.2017.1299080.
- Showalter, D. A., Wollett, C., & Reynolds, S. (2014). Teaching a high-level contextualized mathematics curriculum to adult basic learners. *Journal of Research and Practice for Adult Literacy, Secondary, and Basic Education*, 3(2), 21–34.
- Showalter, D. A. (2013). Place-based mathematics: A conflated pedagogy? *Journal of Research in Rural Education*, 28(6), 1–13. Retrieved from http://jrre.psu.edu/articles/28-6.
- Howley, C., Showalter, D., Klein, R., Sturgill, D., & Smith, M. (2013). Rural math talent, now and then. *Roeper Review*, 35, 102–114.
- Howley, A., Showalter, D., Howley, M. D., Howley, C. B., Klein, R., & Johnson, J. (2011). Challenges for place-based mathematics pedagogy in rural schools and communities in the United States. *Children, Youth and Environments*, 21(1), 101–127.

#### **Editor-Reviewed Publications**

- Showalter, D., Hartman, S.L., Eppley, K., Johnson, J., & Klein, R. (2023). *Why rural matters 2023: Centering equity and opportunity*. National Rural Education Association. https://www.nrea.net/why-rural-matters
- Hartman, S.L., Johnson, J., Showalter, D., Eppley, K., & Klein, B. (2023). Why Rural Matters 2023: Centering Equity and Opportunity: A Discussion with the Research Team. *The Rural Educator*, 44(4).
- Tian, J., Kishbaugh, T.L., Barge, S., & Showalter, D. (2022). STEM scholars engaging in local problems. Proceedings of the American Society for Engineering Education, USA.
- Showalter, D., Klein, R., Johnson, J., & Hartman, S.L. (2019). Why rural matters 2018–19: The time is now [Policy report]. Arlington, VA: Rural School and Community Trust. Available from www.ruraledu.org
- Showalter. D. (2019). Replacing torture tests with broccoli quizzes. *Journal for Research and Practice in College Teaching [Special issue: Innovative teaching personal essays]*, 3(2), 160-165.
- Kishbaugh, T.L., Cessna, S., Leaman, L., & Showalter, D. (2019). Seeking to improve retention through teaching strategies and peer tutoring. In *Increasing Retention of Under-Represented Students in STEM through Affective and Cognitive Interventions*. Washington, DC: ACS Books.
- Chupp, B., Huff, A., & Showalter, D. (2019). Sampling vs. census. *EBSCO research starters*. [Online encyclopedia article]. Birmingham, AL: EBSCO Science Reference Center.
- Showalter, D., Klein, R., Johnson, J., & Hartman, S.L. (2017). Why rural matters 2015–16: Understanding the changing landscape [Online report]. Arlington, VA: Rural School and Community Trust. Available from www.ruraledu.org
- Showalter, D. A. (2015). The game that does it all [Back Page: Favorite Lesson, April Issue]. *Mathematics Teacher*. Reston, VA: National Council of Teachers of Mathematics.
- Showalter, D. A. (2015). *Measures of college and career readiness: A literature review* [Report reviewed by the Institute of Education Sciences]. Calverton, MD: Regional Education Laboratory-Mid Atlantic.

- Howley, C., Howley, A., & Showalter, D. (2015). Leaving or staying home: Belief systems and paradigms in rural education. In T. Stambaugh & S. Wood (Eds.), *Best practices for serving gifted students in rural settings*. Waco, TX: Prufrock Press.
- Showalter, D. (2014, July). Rethinking growth in rural schools. *Daily Yonder*. Available at http://www.dailyyonder.com/rethinking-growth-rural-schools/2014/07/01/7460
- Johnson, J., Showalter, D., Klein, R., & Lester, C. (2014). *Why rural matters 2013–14: The condition of rural education in the 50 states* [Online report]. Arlington, VA: Rural School and Community Trust. Available from www.ruraledu.org
- Klein, R., & Showalter, D. (2012). Where's the math? In J. Diez-Palomar & C. Kanes (Eds.), *Family and community in and out of the classroom: Ways to improve mathematics' achievement*. Universitat Autonoma de Barcelona, Spain: Servei de Publicacions.
- Strange, M., Johnson, J., Showalter, D., & Klein, R. (2012). Why rural matters 2011–12: Statistical indicators of the condition of rural education in the 50 states [Online report]. Arlington, VA: Rural School and Community Trust. Available at http://files.ruraledu.org/wrm2011-12/WRM2011-12.pdf

#### **Other Publications**

- Foley, G. D., Butts, T. R., Phelps, S. W., & Showalter, D. A. (2017). Advanced quantitative reasoning: Mathematics for the world around us, Revised Edition. Austin, TX: AQR Press.
- Showalter, D. & Howley, C. (2016). *Mathematics instruction for paraprofessionals* [Set of 12 modules]. Dayton, OH: Ohio Partnership for Excellence in Paraprofessional Preparation.
- Foley, G. D., Butts, T. R., Phelps, S. W., & Showalter, D. A. (2015). Advanced quantitative reasoning: Mathematics for the world around us, Texas Edition. Austin, TX: AQR Press.
- Showalter, D. A. (2014). *Estimating the causal effect of high school mathematics coursetaking on placement out of postsecondary remedial mathematics*. Available from ProQuest Digital Dissertations (Accession number: ohiou1395226381).
- Foley, G. D., Butts, T. R., Phelps, S. W., & Showalter, D. A. (2014). Advanced quantitative reasoning: Mathematics for the world around us, Common Core Edition. Austin, TX: AQR Press.
- Know Your Numbers. (2014). App for Iphone and Ipads that helps patients understand and practice the math involved in diabetes self-care. On Apple Store.

### **Selected Presentations (\*Invited)**

- \*Showalter, D. (2025, Mar.). *Why Rural Matters: An Overview with Implications for South Carolina*. Keynote for faculty, staff, and students of the College of Education at Clemson University – Clemson, South Carolina.
- \*Hartman, S., Showalter, D., & Eppley, K. (2024, Nov.). *Why Rural Matters: An Overview with Implications for Ohio*. Presented for the College of Education at Ohio University.
- \*Showalter, D. (2024, Nov.). *Rural Data and Pittsylvania County*. Keynote at the launch of The Education Collaborative Pittsylvania County, Virginia.
- \*Showalter, D., & Eppley, K. (2024, Mar.). *Why Rural Matters: A Closer Look at Rural Education in Pennsylvania and the U.S.* Presented for the University of Pittsburgh School of Education.
- \*Showalter, D., Hartman, S., Eppley, K., Johnson, J., & Klein, R. (2024, Feb.). *Why Rural Matters: An Overview with Implications for Kentucky, Tennessee, Virginia, and West Virginia*. Presented for the Region 5 Comprehensive Center.
- \*Showalter, D., Hartman, S., & Eppley, K. (2024, Feb.). *Why Rural Matters: An Overview with Implications for Oklahoma*. Presented for the Oklahoma Rural Schools Coalition.
- Showalter, D. (2024, Feb.). *The Impact of an Interdisciplinary Place-Based Program on the Scientific Motivation of STEM Majors*. Presented at the annual conference of the Scholarship of Teaching and Learning Commons Conference at Georgia Southern University in Savannah, GA.

- \*Showalter, D., Johnson, J., Eppley, K., & Hartman, S. (2024, Jan.). *Rural Community of Practice: Intra-State Working Together*. Presented for the Region 15 Comprehensive Center (California, Utah, Nevada, Arizona).
- \*Showalter, D., Eppley, K., & Klein, R. (2023, Nov.). *Why Rural Matters Report Launch and Panel: Methodology and Results*. Keynote speech at the National Forum to Advance Rural Education. Presented at the annual conference of the National Rural Education Association in Chattanooga, TN.
- \*Showalter, D. (2023, Nov.). *Why Rural Matters: Caswell County Collaborative*. Keynote presentation at the launch of the Caswell County Collaborative's Vision Plan launch event in Yanceyville, NC.
- \*Showalter, D. (2022, Jul.). *An introduction to place-based education*. Institute in Measurement Methodology in Rural STEM Education. University of South Carolina College of Education.
- \*Showalter, D. (2022, Jul.). *Scales and operationalization*. Institute in Measurement Methodology in Rural STEM Education. University of South Carolina College of Education.
- Showalter, D. (2019, June). *Small is beautiful: Leveraging the small size of departments to make rapid cultural changes*. Presented at the biannual meeting of the Association of Christians in the Mathematical Sciences, Indiana Wesleyan, Marion, IN.
- Showalter, D. (2019, Jan.). *Changes in student attitudes and understanding within a statistical reasoning learning environment*. Presented at the annual Joint Mathematical Meetings, Baltimore, MD.
- \*Canavan, B., Showalter, D., Forkenbrock, J., & Bissonnette, J. (2017, June). *Rural education: We're stronger together (Capitol Hill briefing)*. House Rural Education Caucus. Presented in Rayburn House Office Building, Washington, DC.
- \*Showalter, D., Klein, R., Johnson, J., & Hartman, S.L. (2017, Apr.). *Capitol Hill briefing on Why Rural Matters 2015–16*. Presented in a Senate meeting room of the Capitol building, Washington, DC.
- \*Showalter, D. (2017, Jan.). *Rural education in Florida: Then and now*. Inaugural speaker for the Institute for the Advancement of Research, Innovation, and Practice in Rural Education: University of Central Florida, Orlando, FL.
- \*Showalter, D. (2016, Aug.). *Measuring college readiness*. Webinar presented to the Mid-Atlantic Regional Educational Lab's Rural Student College Readiness Research Alliance.
- \*Showalter, D. (2016, July). *Postsecondary readiness in rural schools*. Presented at a Cross-RELs conference held on postsecondary readiness. Nashville, TN.