**JOSHUA M. ROSENBERG**

**Assistant Professor, STEM Education, Theory & Practice in Teacher Education**

**Faculty Fellow, Center for Enhancing Education in Mathematics and Sciences**

**University of Tennessee, Knoxville**

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1. **Professional Preparation**

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| University of North Carolina, Asheville | Asheville, NC | Biology | B.S., 2010 |
| University of North Carolina, Asheville | Asheville, NC | Teacher Licensure Program | 2010 |
| Michigan State University | East Lansing, MI | Education | M.A., 2012 |
| Michigan State University | East Lansing, MI | Educational Psychology & Educational Technology | Ph.D., 2018 |

1. **Appointments**

2018-present Assistant Professor, STEM Education, Department of Theory and Practice in Teacher Education, University of Tennessee, Knoxville

1. **Products**

***Related Products***

1. Jones R. S., & Rosenberg, J. M. (2020). Studying whole class discussions at scale. In M. Gresalfi and I. Horn (Eds.), *The Interdisciplinarity of the Learning Sciences: The International Conference of the Learning Sciences 2020 Conference Proceedings* (Vol 5., pp. 2499-2506). ISLS.
2. Rosenberg, J. M., & Lawson, M. J. (2019). An investigation of students’ use of a computational science simulation in an online high school physics class. *Education Sciences, 9*(49), 1-19. <https://www.mdpi.com/2227-7102/9/1/49>
3. Rosenberg, J. M., Edwards, A., & Chen, B. (2020). Getting messy with data: Tools and strategies to help students analyze and interpret complex data sources. *The Science Teacher, 87*(5). <https://learningcenter.nsta.org/resource/?id=10.2505/4/tst20_087_05_30>
4. Rosenberg, J. M. (2018). *Understanding work with data in summer STEM programs: An experience sampling method approach* (Doctoral dissertation). Retrieved from Proquest Dissertations and Theses. (Proquest No. 10747232)
5. Schmidt, J. A., Beymer, P. N., Rosenberg, J. M., Naftzger, N. J., & Shumow, L. (advance online publication). Experiences, Activities, and personal characteristics as predictors of engagement in STEM-focused summer programs. *Journal of Research in Science Teaching*. <https://onlinelibrary.wiley.com/doi/full/10.1002/tea.21630>

***Other significant products***

1. Bovee, E. A., Estrellado, R. A., Motsipak, J., Rosenberg, J. M., & Velásquez, I. C. (2020). *Data science in education using R*. London, England: Routledge.
2. Rosenberg, J. M., Reid, J., Dyer, E., Koehler, M. J., Fischer, C., & McKenna, T. J. (in press). Exploring the Next Generation Science Standards Chat (#NGSSchat) professional network on Twitter through social network analysis. *Journal of Research in Science Teaching*.
3. Greenhalgh, S. P., Rosenberg, J. M., Koehler, M. J., Akcaoglu, M., & Staudt Willet, B. (2020). Identifying multiple learning spaces within a single teacher-focused Twitter hashtag. *Computers & Education, 148*(4). <https://doi.org/10.1016/j.compedu.2020.103809>
4. Rosenberg, J. M., Lawson, M. A., Anderson, D. J., & Rutherford, T. (in press). Making data science count in and for education. In E. Romero-Hall (Ed.), *Research Methods in Learning Design & Technology*. Routledge: New York, NY.
5. Schmidt, J. A., Rosenberg, J. M., & Beymer, P. (2018). A person-in-context approach to student engagement in science: Examining learning activities and choice. *Journal of Research in Science Teaching, 55*(1), 19-43. <https://dx.doi.org/10.1002/tea.21409>
6. **Synergistic Activities**
7. **Principal Investigator** for a National Science Foundation (NSF)-funded project about how students’ develop interest in programming, computer science, and data science
8. **Co-Principal Investigator** for an NSF-funded project related to expanding opportunities for K-5 computer science education in East Tennessee
9. **Instructor for data science workshops,** including the American Educational Research Association annual meetings
10. **Experience co-organizing an informal data science group and meetup group**, KnoxData, through coordinating and presenting at, maintaining the group’s website, and recruiting presenters.
11. **Experience leading design-based research focused on students’ analysis and interpretation of data** with middle and second grade teachers in and around Knoxville, Tennessee.