**Joshua M. Rosenberg**

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**EDUCATION**

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| Expected 2017 | Ph.D. | Educational Psychology & Educational Technology | Michigan State University |
| Dissertation: Using profiles of engagement and its conditions to understand the experience of data modeling in STEM enrichment programs (Dissertation committee: Matthew Koehler (co-chair), Jennifer Schmidt (co-chair), Lisa Linnenbrink-Garcia, and Christina Schwarz) | | | |
| 2016 | Graduate Certificate | Science Education | Michigan State University |
| 2012 | M.A. | Education | University of North Carolina at Asheville |
| 2010 | B.S. | Biology | University of North Carolina at Asheville |
| 2010 | Professional License | Teacher Licensure Program | Michigan State University |

**PUBLICATIONS**

**Peer-Reviewed Journal Articles**

Rosenberg, J. M., Greenhalgh, S. P., & Wolf, L. G. (in press). Strategies, use, and impact of social media for supporting teacher community within professional development: The case of one urban STEM program. *Journal of Computers in Mathematics and Science Teaching.*

Schmidt, J. A., Rosenberg, J. M., Beymer, P. (advance online publication). A person-in-context approach to student engagement in science: Examining learning activities and choice. *Journal of Research in Science Teaching*. https://dx.doi.org/10.1002/tea.21409

Koehler, M. J., Greenhalgh, S. P., Rosenberg, M. J., & Keenan, S. (2017). What the tech is going on with digital teaching portfolios? Using the TPACK framework to analyze teachers’ technological understanding. *Journal of Technology and Teacher Education, 25*, 31-59. Retrieved from http://www.learntechlib.org/p/173346/

Rosenberg, J. M., Greenhalgh, S. P., Koehler, M. J., Hamilton, E., & Akcaoglu, M. (2016). An investigation of State Educational Twitter Hashtags (SETHs) as affinity spaces. *E-Learning and Digital Media, 13(1-2),* 24-44*.* http://dx.doi.org/10.1177/2042753016672351

Greenhalgh, S. P., Rosenberg, J. M., & Wolf, L. G. (2016). For all intents and purposes: Twitter as a foundational technology for teachers. *E-Learning and Digital Media, 13*(1-2), 81-98.http://dx.doi.org/10.1177/2042753016672131

Hamilton, E., Rosenberg, J. M., & Akcaoglu, M. (2016). Examining the Substitution Augmentation Modification Redefinition (SAMR) model for technology integration. *Tech Trends*, *60*, 433-441. http://dx.doi.org/10.1007/s11528-016-0091-y

Rosenberg, J. M., Terry, C. A., Bell, J., Hiltz, V., & Russo, T. (2016). Design guidelines for graduate program social media use. *Tech Trends*, *2,* 167-175. http://dx.doi.org/10.1007/s11528-016-0023-x

Rosenberg, J. M., & Koehler, M. J. (2015). Context and Technological Pedagogical Content Knowledge (TPACK): A systematic review. *Journal of Research on Technology in Education, 47, 186-210.* http://dx.doi.org/10.1080/15391523.2015.1052663

**Book Chapters**

Herring, M., Koehler, M. J., Mishra, P., Rosenberg, J. M., & Teske, J. (2016). Introduction to the 2nd edition of the TPACK handbook. Handbook of Technological Pedagogical Content Knowledge (TPACK) for educators (2nd ed.). In M. Herring, M. J. Koehler, & P. Mishra (Eds.), *Handbook of Technological Pedagogical Content Knowledge (TPACK) for educators* (2nd ed., pp. 1-8). New York, NY: Routledge.

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| Rosenberg, J. M., & Koehler, M. J. (2015). Context and teaching with technology in the digital age. In M.L. Niess & H. Gillow-Wiles (Eds.), *Handbook of research on teacher education in the digital age* (pp. 440-465). Hershey, PA: IGI Global.  Koehler, M. J., Mishra, P., Akcaoglu, M., & Rosenberg, J. M. (2013). Technological pedagogical content knowledge for teachers and teacher educators. In N. Bharati and S. Mishra (Eds.), *ICT integrated teacher education: A resource book* (pp. 1-8). Commonwealth Educational Media Center for Asia, New Delhi, India. |

**Edited Conference Proceedings**

Krist, C., & Rosenberg, J. M. (2016). Finding patterns in and refining characterizations of students’ epistemic cognition: A computational approach*.* In Looi, C.-K., Polman, J., Cress, U., & Reimann, P. (Eds.), *Transforming Learning, Empowering Learners: The International Conference of the Learning Sciences Proceedings 2016* (Vol. 2, pp. 1223-1224). Singapore, Singapore: ICLS.

Keenan, S., Rosenberg, J. M., Greenhalgh, S. P. & Koehler, M. J. (2016). Examining teachers’ technology use through digital portfolios. In L. Liu & D. C. Gibson (Eds.), Research Highlights in Technology and Teacher Education 2016 (pp. 53-60). Chesapeake, VA: Association for the Advancement of Computing in Education.

Phillips, M., Koehler, M. J. & Rosenberg, J. M. (2016). Considering context: Teachers' TPACK development and enactment. In L. Liu & D. C. Gibson (Eds.), Research Highlights in Technology and Teacher Education (pp. 197-204). Chesapeake, VA: Association for the Advancement of Computing in Education.

Rosenberg, J. M., Greenhalgh, S. P., & Koehler, M. J. (2015). A performance assessment of teachers’ TPACK using artifacts from digital portfolios. In L. Liu & D. C. Gibson, *Research highlights in technology and teacher education 2015*. Waynesville, NC: Association for the Advancement of Computing in Education (AACE).

Schwarz, C. V., Ke, L., Lee, M, & Rosenberg, J. M. (2014, June). Developing mechanistic explanations of phenomena: Case studies of two fifth grade students’ epistemologies in practice over time. In J.L. Polman, E.A. Kyza, K. O’Neill, I. Tabak, W.R. Penuel, A.S. Jurow . . . L. D’Amico (Eds.), *Learning and becoming in practice: The international conference of the learning sciences (ICLS) 2014*(Vol. 1, pp. 182-189). Boulder, CO: ISLS. Retrieved from http://www.isls.org/icls2014/Proceedings.html

**Journal Articles Submitted for Publication**

Rosenberg, J. M., Schwarz, C. V., & Akcaoglu, M. (revise and resubmit). How two fifth grade teachers’ engagement in scientific modeling diverged across eight years. *Journal of Teacher Education.*

Akcaoglu, M., Rosenberg, J. M., Ranellucci, J., Schwarz, C. V. (under review). Outcomes from a self-generated utility value intervention on fifth and sixth-grade students’ value and interest in science. *International Journal of Educational Research*.

Blondel, D. V., Rosenberg, J. M., Sansone, A., Godin, E. A., Yang, B. W., Linnenbrink-Garcia, L. L., & Schwartz-Bloom, L. (under review). The REX virtual experiment platform: Design, implementation, and effects on situational interest. *Journal of Science Education and Technology.*

**Manuscripts in Preparation**

Rosenberg, J. M., & Vanden Heuvel, A. (in preparation). Creating and analyzing data from simulations: High school physics students’ data modeling to make sense of scientific phenomena.

Schmidt, J. A., Rosenberg, J. M., & Beymer, P. N. (in preparation). Stability and variation in student engagement in science classes: A person-oriented approach*.*

Krist, C., & Rosenberg, J. M. (in preparation). Finding patterns in students’ epistemic considerations of generality in science: Combining automated and manual approaches.

Rosenberg, J. M., Ranellucci, J., Lee, Y.-K., Robinson, K. A., Saltarelli, W., Linnenbrink-Garcia, L., & Roseth, C. J. (in preparation). Patterns of engagement in a flipped undergraduate anatomy class and their relations to academic achievement.

Ranellucci, J., Robinson, K.A., Rosenberg, J. M., Saltarelli, W., Roseth, C. J., & Linnenbrink-Garcia, L. (2016, April). Comparing emotions in-class and during online video lectures in a flipped classroom.

Roseth, C. J., Linnenbrink-Garcia, L., Saltarelli, W., Lee, Y-K., Rosenberg, J. M. … & Beymer, P. N. (April, 2016). A design-based intervention on flipped instruction: Longitudinal effects on undergraduates’ engagement and achievement.

Akcaoglu, M., Rosenberg, J. M., Staudt Willet, K. B., Greenhalgh, S., Hamilton, E., & Koehler, M. J. (in preparation). A tale of two Twitters: Synchronous and asynchronous uses of the same hashtag.

**Other Publications**

Phillips, M., Harris, J., Rosenberg, J. M., & Koehler, M. J. (2017). TPCK/TPACK research and development: Past, present, and future directions. *Australasian Journal of Educational Technology*. https://doi.org/10.14742/ajet.3907

Rosenberg, J. M., & Ranellucci, J. (2017). Student motivation in online science courses: A path to spending more time on course and higher achievement. *Michigan Virtual Learning Research Institute Blog: Research, Policy, Innovation & Networks*. Retrieved from https://mvlri.org/blog/student-motivation-in-online-science-courses-a-path-to-spending-more-time-on-course-and-higher-achievement/

**PRESENTATIONS**

**Refereed Conference Presentations**

\*Denotes conference proceedings paper

Greenhalgh, S. P., Staudt Willet, K. B., Rosenberg, J. M., & Koehler, M. J. (2017, November). *No accounting for theory? The case for an affinity space approach to educational hashtag research.* Paper presented at the Association for Educational Communications and Technology International Convention 2017, Jacksonville, FL.

Greenhalgh, S. P., Rosenberg, J. M., & Koehler, M. J. (2017, November). *Hide and go tweet: Comparing methods for locating educational hashtag participants.* Paper presented at the Association for Educational Communications and Technology International Convention 2017, Jacksonville, FL.

Schmidt, J. A., Rosenberg, J. M., & Beymer, P. N. (August, 2017). *Stability and variation in student engagement in science classes: A person-oriented approach.*Paper to be presented at the Annual Meeting of the American Psychological Association, Washington, DC.

Beymer, P. N., Rosenberg, J. M., Schmidt, J. A., Naftzger, N., Sniegowski, S., Shumow, L. (August, 2017). *Examining relationships between choice, affect, and engagement in informal STEM programs.*Paper to be presented at the Annual Meeting of the American Psychological Association, Washington, DC.

Schmidt, J. A., Rosenberg, J. M., & Beymer, P. N. (April, 2016). *Momentary engagement profiles: A person-in-context approach to studying student engagement using experience sampling data*. Paper presented at the Annual Meeting of the American Educational Research Association, San Antonio, TX.

Greenhalgh, S. P., Rosenberg, J. M., & Koehler, M. J. (April, 2016). *Combining datasets and methods to explore equity in teacher professional development.* Paper presented at the Annual Meeting of the American Educational Research Association, San Antonio, TX.

Roseth, C. J., Linnenbrink-Garcia, L., Saltarelli, W., Lee, Y-K., Rosenberg, J. M. … & Beymer, P. N. (April, 2016). *A design-based intervention on flipped instruction: Longitudinal effects on undergraduates’ engagement and achievement.* Paper presented at the Annual Meeting of the American Educational Research Association, San Antonio, TX.

Galey, S., Ferrare, J., & Rosenberg, J. M. (April, 2016). *Idea brokers, policy convergence, and paradigm shifts: The co-evolution of school choice and alternative certification issue networks in the national educational policy discourse, 2000-2015*. Paper presented at the Annual Meeting of the American Educational Research Association, San Antonio, TX.

Wright, E., Hao, Q., & Rosenberg, J. M. (April, 2016). *What are the most important predictors of the earnings of college graduates? Data from the college scorecard*. Paper presented at the Annual Meeting of the American Educational Research Association, San Antonio, TX.

Mikeska, J. N., Rosenberg, J. M., Holtzman, S., & McCaffrey, D. (April, 2016). *Comparing the alignment between two observational measures of science teachers’ instructional practice*. Poster presented at the National Association for Research on Science Teaching Annual International Conference, San Antonio, TX.

Greenhalgh, S. P., Rosenberg, J. M., & Koehler, M. J. (2017, March). *Avoiding madness in our methods*. Paper presented at the Society for Information Technology and Teacher Education International Conference 2017, Austin, TX.

Rosenberg, J. M., Ackaoglu, M., Staudt Willet, K. B., Greenhalgh, S. P., & Koehler, M. J. (2017, March). *A tale of two Twitters: Synchronous and asynchronous use of the same hashtag*. Paper presented at the Society for Information Technology and Teacher Education International Conference 2017, Austin, TX.

Phillips, M., Koehler, M. J., Rosenberg, J. M., & Zunica, B. (2017, March). *Unpacking TPACK: Reconsidering knowledge and context in teacher practice.* Paper presented at the Society for Information Technology and Teacher Education International Conference 2017, Austin, TX.

Peterson, A., Freer, D., & Rosenberg, J. M. (2017, March). *Interacting with purpose: What is the difference between face-to-face and online student relationships in a combined program?* Paper presented at the Society for Information Technology and Teacher Education International Conference 2017, Austin, TX.

Kessler, A., & Rosenberg, J. M. (2017, March). *Considering how teachers’ TPACK is leveraged during the mental engineering of instruction: A theory of action.* Paper presented at the Society for Information Technology and Teacher Education International Conference 2017, Austin, TX.

Nyland, R., Greenhalgh, S. P., Rosenberg, J. M., Koehler, M. J., Veletsianos, G., & Kimmons, R. (October, 2016). *Public data mining methods, ethics, & legalities*. Panel to be presented at the Association for Educational Communications and Technology International Convention 2016, Las Vegas, NV.

Rosenberg, J. M., Greenhalgh, S. P., & Wolf, L. G. (October, 2016). *Participating from near and far: Analyzing online graduate learning communities with social network analysis*. Paper to be presented at the Association for Educational Communications and Technology International Convention 2016, Las Vegas, NV.

Rosenberg, J. M. (October, 2016). *Having agency in conditions that are not equitable: An examination of Donors Choose data*. Paper presented at the Association for Educational Communications and Technology International Convention 2016, Las Vegas, NV.

Phillips, M., Koehler, M. J., & Rosenberg, J. M. (September, 2016). *Contextualising teachers’ TPACK development and enactment*. Paper presented at the Australian Council for Computers in Education, Brisbane, Australia.

Rosenberg, J. M. & Schwarz, C.V. (2016, April). Examining fifth and sixth grade students’ epistemic considerations through an automated analysis of embedded assessment items. In B. Reiser (Chair), *Longitudinal studies of elementary and middle school students’ epistemic considerations through participation in scientific practice*. Related paper set presented at the National Association for Research on Science Teaching Annual International Conference, Baltimore, MD.

Rosenberg, J. M. & Krist, C. (2016, April). *Characterizing students' epistemic considerations: An automated computational approach for embedded assessment responses.* Poster presented at the National Association for Research on Science Teaching Annual International Conference, Baltimore, MD

Ranellucci, J., Rosenberg, J. M., Klautke, H., Robinson, K. A., Saltarelli, W., Linnenbrink-Garcia, L., & Roseth, C. J. (2016, April). *Achievement goals, behavioral engagement, and achievement in a flipped undergraduate anatomy course*. Paper presented at the Annual Meeting of the American Educational Research Association, Washington, DC.

Lee, Y.-K., Rosenberg, J. M., Robinson, K. A., Klautke, H., Seals, C., Saltarelli, W., Linnenbrink-Garcia, L., & Roseth, C. J. (2016, April). *Comparing motivation and achievement in a flipped and traditional classroom*. Paper presented at the Annual Meeting of the American Educational Research Association, Washington, DC.

Wormington, S.V., Lee, Y.-K., Seals, C., Rosenberg, J. M., Saltarelli, W., Roseth, C. J., & Linnenbrink-Garcia, L. (2016, April). *Predicting profile permanence: When is motivation stable, why does it change, and what are the consequences?* Paper presented at the Annual Meeting of the American Educational Research Association, Washington, DC.

Ranellucci, J., Robinson, K.A., Rosenberg, J. M., Saltarelli, W., Roseth, C. J., & Linnenbrink-Garcia, L. (2016, April). *Comparing emotions in-class and during online video lectures in a flipped classroom*. Paper presented at the Annual Meeting of the American Educational Research Association, Washington, DC.

Rosenberg, J. M., Ranellucci, J., Lee, Y.-K., Robinson, K., Saltarelli, W., Linnenbrink-Garcia, L., & Roseth, C.J. (2016, March). *Patterns of engagement in a flipped undergraduate anatomy class and their relations to achievement.* Paper presented at the Society for Information Technology & Teacher Education Annual Conference, Savannah, GA.

\* Phillips, M., Koehler, M. J. & Rosenberg, J. M. (2016). Looking outside the circles: Considering the contexts influencing TPACK development and enactment. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 3029-3036). Chesapeake, VA: Association for the Advancement of Computing in Education. Retrieved from http://www.editlib.org/p/172122

\* Rosenberg, J. M., Koehler, M. J., Akcaoglu, M., Greenhalgh, S. P. & Hamilton, E. (2016). State Educational Twitter Hashtags: An Introduction and Research Agenda. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 355-360). Chesapeake, VA: Association for the Advancement of Computing in Education. Retrieved from http://www.editlib.org/p/171698

\* Greenhalgh, S.P., Rosenberg, J.M. & Wolf, L.G. (2016). For every tweet there is a purpose: Twitter within (and beyond) an online graduate program. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 2044-2049). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE). Retrieved from http://www.editlib.org/p/171972

\* Keenan, S., Rosenberg, J. M., Greenhalgh, S. P. & Koehler, M. J. (2016). Examining teachers’ technology use through digital portfolios. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 1084-1091). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE). Retrieved from http://www.editlib.org/p/171824

Rosenberg, J. M. (2015, November). *Examining what teachers and researchers discuss at science education conferences through a computational analysis of Twitter data.* Paper presented at the meeting of the Association for Educational Communications and Technology, Indianapolis, IN.

Rosenberg, J. M., Akcaoglu, M., Hamilton, E., Greenhalgh, S. P., & Koehler, M. J. (2015, November*). Tweeting U.S.A.: An examination of State Educational Twitter Hashtags (SETHs)*. Paper presented at the meeting of the Association for Educational Communications and Technology, Indianapolis, IN.

Greenhalgh, S. P., Rosenberg, J. M., Keenan, S., & Koehler, M. J. (2015, November). *An investigation of the use of digital portfolios for understanding educators’ technology knowledge.* Paper presented at the meeting of the Association for Educational Communications and Technology, Indianapolis, IN.

Hamilton, E., Rosenberg, J. M., & Akcaoglu, M. (2015, November). E*xamining the Substitution Augmentation Modification Redefinition (SAMR) Model for instructional design and technology integration.* Paper presented at the meeting of the Association for Educational Communications and Technology, Indianapolis, IN.

Mehta, R., Rosenberg, J. M., Russo, T., Arnold, B., Marich, H., & Bell, J. (2015, November). *A survey of social media use and the effects of a social media initiative on graduate student engagement.* Paper presented at the meeting of the Association for Educational Communications and Technology, Indianapolis, IN.

Rosenberg, J. M., & Koehler, M. J. (2015, April). Context and Technological Pedagogical Content Knowledge: A content analysis. In J. M. Rosenberg & M. J. Koehler (Chairs), *Addressing the complexity of teaching with technology: Context and Technological Pedagogical Content Knowledge*. Symposium conducted at the American Educational Research Association Annual Meeting, Chicago, IL.

Hamilton, E., Rosenberg, J. M., & Akcaoglu, M. (2015, April). *The Substitution Augmentation Modification Redefinition (SAMR) framework for technology integration: Challenges to its use for guiding K-12 teacher’s pedagogy and practice*. Paper presented at the American Educational Research Association Annual Meeting, Chicago, IL.

Rosenberg, J. M., Ervin, L., Harris, J., Greenhow, C., Kessler, A., & Tai, D. (2015, March). *How should educational technology researchers consider context? An interactive discussion on context and teaching and learning with technology.* Panel presented at the meeting of the Society for Information Technology and Teacher Education International Conference, Las Vegas, NV.

\* Rosenberg, J. M., Greenhalgh, S. P. & Koehler, M. J. (2015). A performance assessment of teachers’ TPACK using artifacts from digital portfolios. In D. Slykhuis & G. Marks (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2015* (pp. 3390-3397). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE). Retrieved from http://www.editlib.org/p/150472

Akcaoglu, M., & Rosenberg, J. M. (2015, March). *Best practices for designing synchronous and asynchronous online teaching for adult learners.* Poster presented at the meeting of the Society for Information Technology and Teacher Education, Las Vegas, NV.

Rosenberg, J. M., Schwarz, C. V., & Lee, S. W.-Y.​, & ​Akcaoglu, M.​ ​(2015, April). A comparative longitudinal case study of the use of scientific modeling in the pedagogical practice of two fifth-grade science teachers. In A. Lo (Chair), *Leveraging the epistemic dimensions of scientific practice to support student's meaningful engagement in modeling.* Related paper set presented at the National Association for Research on Science Teaching Annual International Conference, Chicago, IL.

Lee, M., Schwarz, C. V., Ke, L., & Rosenberg, J. M. (2014, April). *Analyzing fifth-grade students’ engagement in scientific modeling: Changes in students’ epistemologies-in-practice over time.* Paper presented at the meeting of the National Association for Research in Science Teaching, Philadelphia, PA.

Ke, L., Schwarz, C. V., Lee, M. & Rosenberg, J. M. (2014, April). *Examining elementary students’ attention to mechanism as they engage in scientific modeling across content areas.* Paper presented at the meeting of the National Association for Research in Science Teaching, Philadelphia, PA.

\* Rosenberg, J. M., & Koehler, M. (2014, March). Context and Technological Pedagogical Content Knowledge: A content analysis. In M. Searson & M. Ochoa (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2014* (pp. 2412-2417). Chesapeake, VA: AACE. Retrieved from http://www.editlib.org/p/131183

\* Greenhalgh, S. P., Rosenberg, J. M., Zellner, A. & Koehler, M. J. (2014, March). Zen and the art of portfolio maintenance: Best practices in course design for supporting long-lasting portfolios.In M. Searson & M. Ochoa (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2014* (pp. 1604-1610). Chesapeake, VA: AACE. Retrieved from http://www.editlib.org/p/131027

Koehler, M. J., Rosenberg, J. M., Greenhalgh, S., Zellner, A. L., & Mishra, P. (2014, March). *Analyzing students’ portfolios for the development of TPACK.* In J. Voogt (Chair), Artifacts demonstrating teachers’ technology integration competencies. Symposium presented at the meeting of the Society for Information Technology and Teacher Education, Jacksonville, FL.

\* Rosenberg, J., Terry, C., Bell, J., Hiltz, V., Russo, T. & The EPET Social Media Council (2014, March). What we’ve got here is failure to communicate: Social media best practices for graduate school programs.In M. Searson & M. Ochoa (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2014* (pp. 1210-1215). Chesapeake, VA: AACE. Retrieved from http://www.editlib.org/p/130949

\* Rosenberg, J. (2013, March). Review of mobile device use policies in public high schools. In R. McBride & M. Searson (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2013*(pp. 3774-3779). Chesapeake, VA: AACE. Retrieved from http://www.editlib.org/p/48698

**FELLOWSHIPS AND GRANTS**

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| 2017 | Delia Koo Global Travel Fellowship ($500), Michigan State University |
| 2017 | Michigan Virtual Learning Research Institute Dissertation Fellowship ($1,500), Michigan Virtual University |
| 2017 | Data Science Educational Technology Travel Stipend ($1,000), Concord Consortium |
| 2017 | Council of Graduate Students Disciplinary Leadership Award ($2,000), Michigan State University |
| 2017 | Research Expenses Fellowship ($3,250), Michigan State University |
| 2016-2017 | College of Education Alumni Fellowship ($5,500), Michigan State University |
| 2015 | Cotterman Family Endowment for Education Summer Research Fellowship ($6,000), Michigan State University |
| 2015 | Early Career Symposium Travel Stipend ($980), Association for Educational Communications and Technology |
| 2014 | Research Enhancement Funds ($600), Graduate School, Michigan State University |
| 2013 | Massive Open Online Course Research and Development Fellowship ($1,000), Michigan State University |
| 2013-2017 | Educational Psychology & Educational Technology Student Research Conference Travel Fellowship ($5,190), Michigan State University |

**AWARDS**

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| 2016 | Best Paper Award, TPACK SIG, Society for Information Technology and Teacher Education International Conference |
| 2014 | Outstanding Paper Award, Society for Information Technology and Teacher  Education International Conference |

**COMPETITIVE RESEARCH TRAINING**

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| 2016 | Selected Participant, American Educational Research Association Division C Graduate Student Seminar |
| 2015 | Selected Participant, National Science Foundation and Association for Educational Communications and Technology Early Career Seminar |

**RESEARCH EXPERIENCE**

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| --- | --- |
| 2017- | Graduate Research Assistant, Profiles of Science Engagement: Broadening Participation by Understanding Individual and Contextual Influences, Jennifer A. Schmidt (Michigan State University PI), NSF ECR Grant 1661064 |
| 2017 | Graduate Research Assistant, Self-Generated Research Experiences to Support Biomedical/Behavioral Research Careers, Lisa Linnenbrink-Garcia (Michigan State University PI), National Institute of Health Award 2R01GM094534-05A1 |
| 2016- | Graduate Research Assistant, Science Technology Engineering and Mathematics (STEM) Interest and Engagement, Jennifer Schmidt (Michigan State University PI), NSF AISL Grant DRL-1421198 |
| 2013-2017 | Graduate Research Assistant, Supporting Scientific Practices in Elementary and Middle School Classrooms, Christina Schwarz (Michigan State University PI), NSF DRK-12 Grant DRL-1020316 |
| 2015-2016 | Graduate Research Assistant, Michigan State University - Educational Testing Service Partnership, Robert Floden (Michigan State University PI) and Jamie Mikeska (Educational Testing Service PI) |
| 2014-2015 | Graduate Research Assistant, Assessing Teachers’ Technological Pedagogical Content Knowledge Through Digital Portfolios, Matthew J. Koehler (PI) |

**TOOLS DEVELOPED**

prcr: Person-centered analysis (R package on CRAN; with J. Schmidt & P. Beymer). <https://cran.r-project.org/web/packages/prcr/index.html>

clustRcompaR: Easy interface for clustering a set of documents and exploring group-based patterns (R package on CRAN; with A. Lishinski). <https://cran.r-project.org/web/packages/clustRcompaR/index.html>

konfound: Sensitivity analysis (R package on GitHub; with K. Frank & R. Xu). <https://github.com/jrosen48/konfound>

lme4plotpartial: Plot partially pooled estimates for mixed effects models (R package on GitHub; with T. Mahr). <https://github.com/jrosen48/lme4plotpartial>

Diffusion & Temperature – AP Physics 2 (MVS): Lab Interactive simulation. [http://lab.concord.org/interactives.html - interactives/external-projects/msu/temperature-diffusion.json](http://lab.concord.org/interactives.html#interactives/external-projects/msu/temperature-diffusion.json)

**TEACHING**

**Teaching Awards**

* MSU-AT&T Instructional Technology Award: Best Online Course (2014)
* MSU-AT&T Instructional Technology Award (Honorable Mention): Best Online Course (2013)

**Instructor of Record**

* Psychology of Learning in School and Other Settings (CEP 800, M.A. course, 2017)
* Technology and Leadership (CEP 815, M.A. course, 2017)
* Approaches to Educational Research (CEP 822, M.A. course, 2017)
* Psychology of Learning in School and Other Settings (CEP 800, M.A. course, 2014, online)
* Technology and Leadership (CEP 815, M.A. course, taught six courses, 2012-2014, online)

**Teaching Assistant**

* Proseminar in Educational Psychology and Educational Technology (CEP 900, Ph.D. Course, 2016)
* Educational Inquiry (CEP 900, Ph.D. course, 2016)
* Social-Emotional Development Across the Lifespan (CEP 904, Ph.D. course, 2016)
* Proseminar in Educational Technology (CEP 807 / ED 870, M.A. course, assisted eight courses, 2012-2015, online)

**RELATED PROFESSIONAL EXPERIENCE**

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| --- | --- |
| 2010-2012 | Teacher, Shelby High School, Shelby, NC, 9th grade earth science and 10th grade biology and honors biology, soccer coach, selected as Amgen-NSTA Fellow (2011-2012) |
| 2009-2010 | Teacher Intern, Charles D. Owen High School, Black Mountain, NC, 10th grade biology and honors biology and 11th grade chemistry. |

**CONSULTING**

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| 2017 | Statistical software development, Kenneth Frank, Michigan State University |
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| 2017 | Statistical analysis, Yael Shwartz, Weizmann Institute, Israel |
| 2016 | Statistical analysis, Lara Kassab, San Jose State University |

**SERVICE**

**Editorial Service**

Special Issue Editor, *Australasian Journal of Educational Technology* (Forthcoming May, 2017)

Editorial Review Board, *Journal of Research on Technology in Education* (2016-)

**Service to Profession**

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| 2016-2017 | Member, Publicity and Hosting Committee, Computer Supported Collaborative Learning Conference |
| 2015-2017 | Co-chair, Technological Pedagogical Content Knowledge (TPACK) Special Interest Group (SIG), Society for Information Technology and Teacher Education |
| 2014-2017 | Membership Committee, Division 15 (Educational Psychology), American Psychological Association (APA) |
| 2015-2016 | Communications Deputy, Division C, American Educational Research Association |
| 2014-2015 | Associate Chair, TPACK SIG, Society for Information Technology and Teacher Education |

**Ad-hoc Journal Article Reviews**

*British Journal of Educational Technology* (2016)

*Computers & Education* (2014 & 2016)

*E-Learning and Digital Media* (2016 [2 papers reviewed])

*Journal of Educational Technology & Society* (2016)

*Contemporary Issues in Technology and Teacher Education* (2014)

**Conference Proposal Reviews**

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| 2016 | Program Committee Member, International Conference on Computer-Supported Collaborative Learning 2017 |
| 2014-2016 | Review Panel Member, American Educational Research Association (AERA) Annual Meeting |
| 2016 | Reviewer, Association for Educational Communications and Technology (AECT) 2016 International Convention |
| 2014 | Reviewer, American Psychological Association (APA) 2015 Convention |
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**Symposia Organized**

Herring, M., Koehler, M. J., Mishra, P., Rosenberg, J. M., Teske, J., & Fisser, P. (2016, April). *Technological Pedagogical Content Knowledge: Looking forward*. Symposium conducted at the Society for Information Technology and Teacher Education Annual Conference, Savannah, GA.

Fisser, P., Rosenberg, J. M., Teske, J., Koehler, M. J. & Herring, M. (2015, March). *Technological Pedagogical Content Knowledge (TPACK): Revision and Rethinking.* Symposium conducted at the Society for Information Technology and Teacher Education International Conference, Las Vegas, NV.

**Departmental Service**

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| 2015 | Search Committee Member, Program Specialist, Master of Arts in Educational Technology Program, Michigan State University |
| 2012-2014 | Co-Chair, Social Media Council, Educational Psychology & Educational Technology program, Michigan State University |

**Workshops, Outreach, and Campus Presentations**

Rosenberg, J. M. (2017, April). Introduction to R for Data Analysis. Presentation at the School of Criminal Justice, Michigan State University.

Rosenberg, J. M., Beymer, P. N., & Schmidt, J. A. (2017, February). *Does choosing the problem or topic matter? Using a person-in-context approach to understand student engagement in science.* Poster presented at the Create4Stem MiniConference 2017, East Lansing, MI.

Rosenberg, J. M. (2016, April). *Momentary engagement profiles: An examination of student engagement in science settings using experience sampling methodology*. Presentation at the Michigan State University Educational Psychology and Educational Technology Program Informal Colloquium, East Lansing, MI.

Rosenberg, J. M. (March, 2016). *An introduction to R for programming and statistical analysis in education*. Georgia Southern University College of Education, Statesboro, GA.

Gretter, S., Mehta, R. & Rosenberg, J. M. (2016, November). *This teacher attended a media literacy session: You would not believe what happened next*. Presentation at the Michigan State University Educational Technology Conference, East Lansing, MI.

Ranellucci, J., & Rosenberg, J. M. (2016, February). *Motivating our students: A partnership between Michigan Virtual Schools and Michigan State University*. Workshop at Michigan Virtual University, East Lansing, MI.

Rosenberg, J. M., & Schwarz, C. V. (2016, February). *Examining the development of fifth and sixth grade students’ epistemic considerations over time through an automated  
analysis of embedded assessment items*. Poster presented at the Create4Stem MiniConference 2016, East Lansing, MI.

Rosenberg, J. M. (2015, September). *Achievement goals, in- and out-of-class engagement, and students' achievement in a flipped undergraduate anatomy class.* Presentation at the Michigan State University Educational Psychology and Educational Technology Program Informal Colloquium, East Lansing, MI.

Greenhalgh, S., Rosenberg, J., & Mehta, R. (2015, May). *Online presence for graduate students: An introduction*. Workshop at the BHEARD Scholar Conference, East Lansing, MI.

Robinson, K., Lee, Y.-K., Rosenberg, J. M., Klautke, H., Seals, C. Ranellucci, J., Wormington, S., Saltarelli, W., Linnenbrink-Garcia, L., & Roseth, C. (2015, February). *The flipped classroom for motivation, engagement, and learning in anatomy*. Poster presented at the Create4Stem MiniConference 2015, East Lansing, MI.

Rosenberg, J. M., Akcaoglu, M., Schwarz, C.V., & Lee, S.W-Y. (2015, February). *Comparative longitudinal case studies of two middle school teachers’ use of scientific modeling.* Poster presented at the Create4Stem MiniConference 2015, East Lansing, MI.

Lee, M., Schwarz, C.V., Ke, L., Rosenberg, J. M., Reiser, B., Berland, L., Kenyon, L., Wilson, M., Draney, K. (2015, February). *Epistemic considerations in scientific practices for elementary & middle schools*. Poster presented at the Create4Stem MiniConference 2015, East Lansing, MI.

Wolf, L. G., Henriksen, D., Sawaya, S., & Rosenberg, J. M. (2014, December). *EdCamp with Team MAET*. Presentation at the Michigan State University Master of Arts in Educational Technology Bridge Webinar Series, East Lansing, MI.

Rosenberg, J. M. (2014, November). *Integrating “disruptive” technologies into teaching with action research and Technological Pedagogical Content Knowledge (TPACK).* Presentation at the Michigan State University Educational Technology Conference, East Lansing, MI.

Rosenberg, J. M., Schwarz, C.V., Akcaoglu, M., & Lee, S.W-Y. (2014, October). *Comparative longitudinal case studies of two middle school teachers’ use of scientific modeling.* Poster presented at the Advances in Educational Psychology Conference. Fairfax, VA.

Rosenberg, J. M. (2014, April). *Action research with mobile devices and other “disruptive” technologies*. Presentation at the Best of the Michigan Association for Computer Users in Learning Conference, Waterford, MI.

Wolf, L. G., Henriksen, D., Sawaya, S., & Rosenberg, J. M. (2014, March). *Mobile learning for educators*. Presentation at the Michigan State University Master of Arts in Educational Technology Bridge Webinar Series, East Lansing, MI.

Rosenberg, J. M. (2014, February). *Context and Technological Pedagogical Content Knowledge: Preliminary results of a content analysis*. Presentation at the Michigan State University Educational Psychology and Educational Technology Program Informal Colloquium, East Lansing, MI.

Ke, L., Lee, M., Rosenberg, J. M., & Schwarz, C.V. (2014, February). *Modeling across content areas: Examining elementary students’ attention to mechanism*. Poster presented at the Create4Stem MiniConference 2014, East Lansing, MI.

Rosenberg, J. M. (2014, February). *Action research with mobile devices*. Presentation at the Michigan Association for Computer Users in Learning Mobile Learning Conference, Kalamazoo, MI.

Sawaya, S., & Rosenberg, J. M (2014, February). *Master of Arts in Educational Technology Mobile Learning Workshop*. Workshop at Michigan State University, East Lansing, MI.

Rosenberg, J. M., Rapa, L., & Wolf, L. G. (2013, February). *CEP 815 and the transition from ANGEL to Desire2Learn*. Poster presented at the 6th Annual Faculty Technology Showcase.

Rosenberg, J. M. (2012, November*). Mobile learning for teachers*. Presentation at the Michigan State University Educational Technology Conference, East Lansing, MI.

**PROFESSIONAL AFFILIATIONS**

American Educational Research Association (2012 - )

Association for Educational Communications and Technology (2015 - )

Association for the Advancement of Computing in Education (2012 - )

International Society of the Learning Sciences (2014 - )

National Association for Research in Science Teaching (2015 - )