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Education

- Doctor of Philosophy (Educational Psychology), Virginia Commonwealth University: *Advisor: Dr. Sharon Zumbrunn*
Dissertation Title: *Variable- and Person-Centered Approaches to Examining Construct-Relevant Psychometric Multidimensionality in Writing Self-Efficacy.*
- Bachelor of Science in Psychology, Pennsylvania State University – with High Distinction.

Peer Reviewed Articles (alphabetical)

- Bae, C. & **DeBusk-Lane, M.** (2019). Middle school engagement: Implications for motivation and achievement in science. *Learning and Individual Differences*, 74, <https://doi.org/10.1016/j.lindif.2019.101753>
- Bae, C. & **DeBusk-Lane, M.** (2018). Stability of motivation belief profiles in science: Links to classroom goal structures and achievement. *Learning and Individual Differences*, 67, 91-104. <https://doi.org/10.1016/j.lindif.2018.08.003>
- Bae, C., **DeBusk-Lane, M.**, Hayes, K. & Zhang, F. (2018). Opportunities to participate (OtP) in science: Examining differences longitudinally and across socioeconomically diverse schools. *Research in Science Education*, 1-22. <https://doi.org/10.1007/s11165-018-9797-5>
- Bae, C., Hayes, K., **DeBusk-Lane, M.** (2020). Profiles of middle school science teachers: Accounting for cognitive and motivational characteristics. *Journal of Research in Science Teaching*, 57(6), 911-942.
- Bae, C. L., **DeBusk-Lane, M.**, & Lester, A. M. (2020). Engagement profiles of elementary students in urban schools. *Contemporary Educational Psychology*, 62, 101880. <https://doi.org/10.1016/j.cedpsych.2020.101880>
- DeBusk-Lane, M.**, Zumbrunn, S., Bae, C., Broda, M., Bruning, R., & Sjogren, A. (2022). Variable- and Person-Centered Approaches to Examining Construct-Relevant Multidimensionality in Writing Self-Efficacy. Manuscript submitted for publication.
- Ekholm, E., Zumbrunn, S., & **DeBusk-Lane, M.** (2017). Clarifying an elusive construct: A systematic review of writing attitudes. *Educational Psychology Review*, 30(3), 827-856. <https://doi.org/10.1007/s10648-017-9423-5>
- Redifer, J., Bae, C., & **DeBusk-Lane, M.** (2019). Implicit Theories, Working Memory, and Cognitive Load: Impacts on Creative Thinking. *SAGE Open*, 9(1), 1-16. <https://doi.org/10.1177/2158244019835919>
- Zumbrunn, S., Ekholm, E., Stringer, J. K., McKnight, K., & **DeBusk-Lane, M.** (2017). Student Experiences With Writing: Taking the Temperature of the Classroom. *The Reading Teacher*, 70(6), 667-677. <https://doi.org/10.1002/trtr.1574>

Zumbrunn, S., Marrs, S., Broda, M., Ekholm, E., **DeBusk-Lane, M.**, Jackson, L. (2019). Toward a more complete understanding of elementary writing attitudes: A mixed methods study of elementary students. *AERA Open*, 5(2), 1-16.

Peer-Reviewed Professional Presentations (alphabetically)

DeBusk-Lane, M., Bae, C., & Lester, A. *Student engagement in urban elementary schools: A Variable- and person-centered approach* (Paper presented at the 2020 American Educational Research Association in San Francisco, CA.)

Bae, C. & **DeBusk-Lane, M.**, *Engaging Students in Science: Measurement Invariance of Science Practices across Middle School Grades and Socioeconomic Subgroups* (Paper presented at the 2017 Society for Research on Educational Effectiveness: SREE)

Bae, C., **DeBusk-Lane, M.**, & Hayes, K., *Student Engagement in Middle School Science: Findings across socioeconomic subgroups* (Poster presented at the 2017 American Psychological Association in Washington, D.C.)

Bae, C., **DeBusk-Lane, M.**, & Hayes, K., *Student Engagement in Middle School Science: Findings across socioeconomic subgroups* (Paper presented at the 2018 American Educational Research Association in New York, NY.)

Bae, C., **DeBusk-Lane, M.** *Profiles of motivation in middle school science: Links to classroom structures and achievement* (Poster presented at the 2018 American Psychological Association in San Francisco, CA.)

DeBusk-Lane, M. & Bae, C., *Students' Engagement in Middle School Science: Measurement Invariance and Group Mean Comparisons Across Language Subgroups.* (Poster presented at the 2017 Association for Psychological Science Convention, Boston, MA.)

DeBusk-Lane, M., Gnilka, P., Bae, C., Akcil, S., & Fee, H. *Counselor Burnout Inventory: Factor Structure and Measurement Invariance across U.S. and Turkish Professional School Counselors.* (Paper presented at the 2018 American Educational Research Association, New York, NY.)

DeBusk-Lane, M., Lester, A., Zumbrunn, S. *Understanding Profiles of Writing Self-Efficacy through Mixed Methods Analysis.* (Poster presented at the 2018 American Educational Research Association, New York, NY.)

Ekholm, E., Zumbrunn, S., & **DeBusk-Lane, M.**, *Clarifying an elusive construct: A systematic review of writing attitudes.* (Paper presented at the 2017 American Educational Research Association, San Antonio, TX.)

Gnilka, P., **DeBusk-Lane, M.**, Moate, R., Rice, K., Ashby, J., & Zumbrunn, S., *Perfectionism and the HEXACO Model of Personality.* (Paper presented at the 2017 Association for Psychological Science, Boston, MA.)

Jackson, L., **DeBusk-Lane, M.**, Zumbrunn, S., & Baker, A., *A Qualitative Study on the Collective Efficacy and Belongingness of Undergraduate Students* (Paper presented at the 2016 American Psychological Association convention, Denver, CO.)

- Lester, A. M., Chow, J., & **DeBusk-Lane, M.** *Adolescent Participation in Afterschool Programs: A Systematic Review and Meta-analysis.* (Poster presented at the 2018 American Psychological Association, San Francisco, CA.)
- Lester, A., **DeBusk-Lane, M.**, Ekholm, E., Kunemund, R., Sterrett, B., Hope, S., ... Zumbrunn, S.. *Making schools more inclusive, inviting, and supportive: A community perspective.* (Poster presented at Virginia Commonwealth University's 2017 Racial Disproportionality, School Discipline, and Future Directions symposium.)
- Lester, A., **DeBusk-Lane, M.**, & Siegel-Hawley, G.. *Investigating profiles of school level demographic change in relation to racial disproportionality in discipline.* (Paper presented at the 2019 American Educational Research Association, Toronto, Canada)
- Lester, A. M., **DeBusk-Lane, M.**, & Zumbrunn, S. *Investigating Profiles of Students' Writing Self-Efficacy: A Mixed Methods Approach.* (Poster presented at the 2018 American Psychological Association, San Francisco, CA.)
- Love, S., Rufer, L., **DeBusk-Lane, M.**, & Zumbrunn, S., *Exploring Student Athlete Motivation in Academics and Athletics.* (Paper presented at the 2016 American Psychological Association convention, Denver, CO.).
- Maese, E., Diego-Rosell, P., Srinivasan, R., Bikus, Z., **DeBusk-Lane, M.**, Davoodi, T., Van Klinken, M., Foy, D., *Food Insecurity in Context: Developing Mental Models of Local Knowledge in Halabja, Iraq.* (Presentation to the American Public Health Association, 2022).
- Marrs, S. A., Zumbrunn, S. K., Jackson, L. O., Ekholm, E., **DeBusk-Lane, M.**.. *Exploring elementary students' preferences for writing tasks.* (Poster presented at the 2017 meeting of the American Psychological Association, Washington, D.C.)
- Redifer, J. Bae, C., & **DeBusk-Lane, M.**, *Cognitive Load Mediates the Relationship Between Implicit Beliefs and Creative Thinking Scores.* (Poster presented at the 2017 Association for Psychological Science, Boston, MA.)
- Siegel-Hawley, G, **DeBusk-Lane, M.**, Lester, A., Naff, D., & Palencia, V. *Race, place, and exclusion: The metropolitan landscape of racial inequity in school discipline.* (Paper presented at the 2019 American Educational Research Association, Toronto, Canada)
- Sjogren, A., **DeBusk-Lane, M.**, & Bae, C. *Student engagement across contexts.* (Symposium presented at the 2021 American Educational Research Association, Virtual Meeting).
- Stringer, J., **DeBusk-Lane, M.**, Zumbrunn, S., & Walsh, M., *Academic self-concept: A qualitative approach.* (Paper presented at the 2016 American Psychological Association convention, Denver, CO.).
- Zumbrunn, S., Ekholm, E., Stringer, J., McKnight, K., & **DeBusk-Lane, M.**, *Exploring the experience of writing through student drawings.* (Paper presented at the 2016 American Psychological Association convention, Denver, CO.).
- Zumbrunn, S., Marrs, S., Jackson, L., Broda, M., Ekholm, E., & **DeBusk-Lane, M.**, *Student perceptions of teacher and peer enthusiasm for writing, writing attitudes, and writing self-regulation: A mixed methods study.* (Paper presented at the meeting of the 2017 American Educational Research Association, San Antonio, TX.)

Zumbrunn, S., Marrs, S., Malmberg, L., Ekholm, E., Broda, M., & **DeBusk-Lane, M.**, *Individual differences and the development of multiple dimensions of writing self-efficacy*. (Paper presented at the 2018 International Conference of the EARLI Special Interest Group on Writing, Antwerp, Belgium)

Published Reports

Siegel-Hawley, G., Tefera, A. A., Naff, D., Lester, A., Levy, R., Palencia, V., Parry, M., & **DeBusk-Lane, M.** (2019). *Understanding racial inequities in school discipline across the Richmond region*. Richmond, VA: Metropolitan Educational Research Consortium.

Courses Taught

- VCU - Fall 2019: EDUS 608 Advanced Educational Statistics

Statistical Experience & Knowledge:

- Latent Class/Profile Analyses
- Latent Transition Analyses (mover-stayer)
- Higher Order Mixture Models
- Structural Equation Modeling (SEM)
- Multi-level Modeling (MLM)
- Regression (multivariate, multi-, logistic, and multinomial)
- Latent Growth Modeling
- Growth Mixture Modeling
- Scale Development (process & IRT)
- Monte Carlo Simulation & Power Analyses
- Machine Learning

Software Experience & Knowledge

- R, Python, Mplus