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Education

- Doctor of Philosophy in Education (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.
- Associates Degree in General Education, Craven Community College.

Peer Reviewed Articles

- Bae, C. & **DeBusk-Lane, M.** (2019). Engagement profiles in middle school: 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.** (in press). Profiles of middle school science teachers: Accounting for cognitive and motivational characteristics. *Journal of Research in Science Teaching*.
- 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*, <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., Jackson, L., Ekholm, E., & **DeBusk-Lane, M.** (in press). Toward a more complete understanding of elementary writing attitudes: A mixed methods study of elementary students. *AERA Open*.

Manuscripts Under Review or Revision

- Bae, C., **DeBusk-Lane, M.**, Lester, A. Engagement profiles of elementary students in urban schools.

Manuscripts in Work

- DeBusk-Lane, M.** & Bae, C. (Manuscript in work). Elementary engagement: An exploratory structural equation model approach to multidimensionality in student engagement
- DeBusk-Lane, M.** (Manuscript in work). Covariate misspecification in mixture models, R3STEP efficacy, and Masyn's approach: A Monte Carlo simulation study
- DeBusk-Lane, M.,** Lester, A., & Zumbrunn, S. (Manuscript in Work). Elementary students' writing self-efficacy: A latent profile mixed methods approach.
- DeBusk-Lane, M.,** Lester, A., & Zumbrunn, S. (Manuscript in Work). Secondary students' writing self-efficacy: A latent profile mixed methods approach.
- DeBusk-Lane, M.,** Zumbrunn, S., & Ferguson, J. (Manuscript in Work). Writing Feedback Emotional Reactivity: An Eye-tracking and Physiological Analysis

Peer-Reviewed Professional Presentations

- DeBusk-Lane, M.,** Bae, C., & Lester, A. *Student engagement in urban elementary schools: A Variable- and person-centered approach* (Paper to be 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.).
- 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)
- 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.

Professional Affiliation

- The Honor Society of Phi Kappa Phi: 2016 - present
- International Honors Society in Psychology – Psi Chi – 2015/16 Officer – Web Master
- American Educational Research Association - 2016 - present
- American Psychological Association - 2016 - present
- Society for Research on Educational Effectiveness - 2017 - present

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, Stata, excel, and SPSS

