

## Curriculum Vitae

**Joseph M. Kush**

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### EDUCATION

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Ph.D.	2021	University of Virginia Educational Psychology – Research, Statistics and Evaluation
B.S.	2016	Syracuse University Psychology – Minors in Applied Statistics, Philosophy

### PROFESSIONAL POSITIONS

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2022 - Present	Assistant Professor; Assistant Assessment Specialist James Madison University, Department of Graduate Psychology
2021 - 2022	Postdoctoral Fellow, Department of Mental Health, Johns Hopkins Bloomberg School of Public Health
2016 - 2021	Research and Teaching Assistant, University of Virginia School of Education and Human Development
2014 - 2015	Research Assistant, Syracuse University S.I. Newhouse School of Public Communications
2011 - 2016	Research Assistant, Syracuse University Department of Psychology

### HONORS AND AWARDS

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2021 - 2023	<i>Prevention Science</i> Early Career Reviewer Program
2020	University of Virginia Outstanding Graduate Teaching Assistant Award
2016 - 2021	University of Virginia Graduate Fellowship
2012 - 2016	Syracuse University Dean's List

## SCHOLARLY ACTIVITY

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### Publications

#### *Peer-reviewed journal articles*

- Musci, R. J., **Kush, J. M.**, Masyn, K. E., Amin-Esmaeili, M., Susukida, R., Goulter, N., McMahon, R., Eddy, J. M., Godwin, J. W., Conduct Problems Prevention Research Group, & Wilcox, H. C. (2023). Psychosis symptom trajectories across childhood and adolescence in three longitudinal studies: An integrative data analysis with mixture modeling. *Prevention Science*. <https://doi.org/10.1007/s11121-023-01581-7>
- Henderson, L. J., Bottiani, J. H., **Kush, J. M.**, & Bradshaw, C. P. (2023). The discipline gap in context: The role of school racial and ethnic diversity and within school positionality on out-of-school suspensions. *Journal of School Psychology*, 98, 61-77. <https://doi.org/10.1016/j.jsp.2023.02.006>
- Brown, J. T., Volk, F., & **Kush, J. M.** (2023). Racial and economic stratification on campus: The relationship between luxury residence halls, race, and academic outcomes. *Journal of College Student Development*, 64(1), 108-113. <https://www.muse.jhu.edu/article/884293>
- Bradshaw, C. P., **Kush, J. M.**, Braun, S. S., & Barton, E. A. (2023). The perceived effects of the onset of the COVID-19 pandemic: A focus on educators' perceptions of the negative effects on educator stress and student wellbeing. *School Psychology Review*. <https://doi.org/10.1080/2372966X.2022.2158367>
- Volk, F., **Kush, J. M.**, & Brown, J. T. (2023). The anatomy of room change: Architecture, academic performance, and differences in race and socioeconomic status. *The Journal of College and University Student Housing*. [https://www.nxtbook.com/acuho-i/acuho/journal\\_vol49no2/index.php#/p/51](https://www.nxtbook.com/acuho-i/acuho/journal_vol49no2/index.php#/p/51)
- Bottiani, J. H., **Kush, J. M.**, McDaniel, H. L., Pas, E. T., & Bradshaw, C. P. (2022). Are we moving the needle on racial disproportionality? Measurement challenges in evaluating school discipline reform. *American Educational Research Journal*, 60(2), 293-329. <https://doi.org/10.3102/00028312221140026>
- Kush, J. M.**, Badillo-Goicoechea, E., Musci, R. J., & Stuart, E. A. (2022). Teacher mental health during the COVID-19 pandemic. *Educational Researcher*, 51(9), 593-597. <https://doi.org/10.3102/0013189X221134281>
- Kush, J. M.**, Pas, E. T., Musci, R. J., & Bradshaw, C. P. (2022). Covariate balance for observational effectiveness studies: A comparison of matching and weighting. *Journal of Research on Educational Effectiveness*, 16(2), 189-212. <https://doi.org/10.1080/19345747.2022.2110545>
- Kush, J. M.**, Masyn, K. E., Amin-Esmaeili, M., Susukida, R., Wilcox, H. C., & Musci, R. J. (2022). Utilizing moderated nonlinear factor analysis models for integrative data analysis: A tutorial. *Structural Equation Modeling: A Multidisciplinary Journal* 30(1), 149-164. <https://doi.org/10.1080/10705511.2022.2070753>

- Brown, J. T., **Kush, J. M.**, & Volk, F. A. (2022). Centering the marginalized: The impact of the pandemic on online student retention. *Journal of Student Financial Aid*, 51(1), 1-24. <https://doi.org/10.55504/0884-9153.1777>
- Bradshaw, C. P., Debnam, K. J., **Kush, J. M.**, & Lindstrom-Johnson, S. (2022). Planning for crisis, but preparing for everyday: What predicts schools' preparedness to respond to a school safety crisis? *Frontiers in Communication: Organizational Psychology*, 7(765336). <https://doi.org/10.3389/fcomm.2022.765336>
- Bloomfield-Claggett, B., Greenstein, D. K., **Kush, J. M.**, Musci, R. J., Zarate, C. A., & Ballard, E. (2022). Predictors of suicidal ideation trajectories in the Sequenced Treatment Alternatives to Relieve Depression (STAR\*D) study. *Journal of Psychiatric Research*, 148(2022), 9-13. <https://doi.org/10.1016/j.jpsychires.2022.01.027>
- Bradshaw, C. P., Pas, E. T., Musci, R. J., **Kush, J. M.**, & Ryoo, J. H. (2021). Can policy promote adoption or outcomes of evidence-based prevention programming?: A case illustration of Positive Behavioral Interventions and Supports. *Prevention Science*, 22(7), 986-1000. <https://doi.org/10.1007/s11121-021-01257-0>
- Kush, J. M.**, Konold, T. R., & Bradshaw, C. P. (2021). The sampling ratio in multilevel structural equation models: Considerations to inform study design. *Educational and Psychological Measurement*, 82(3), 409-443. <https://doi.org/10.1177/00131644211020112>
- Kush, J. M.**, Konold, T. K., & Bradshaw, C. P. (2021). Statistical power for randomized controlled trials with clusters of varying size. *The Journal of Experimental Education*, 90(3), 673-692. <https://doi.org/10.1080/00220973.2021.1873089>
- Larson, K. E., Pas, E. T., Bottiani, J. H., **Kush, J. M.**, & Bradshaw, C. P. (2020). A multidimensional and multilevel examination of student engagement and secondary school teachers' use of classroom management practices. *Journal of Positive Behavior Interventions*, 23(3), 149-162. <https://doi.org/10.1177/1098300720929352>
- Bradshaw, C. P., & **Kush, J. M.** (2019). Teacher observation of classroom adaptation-checklist: Measuring children's social, emotional, and behavioral functioning. *Children & Schools*, 42(1), 29-40. <https://doi.org/10.1093/cs/cdz022>
- Larson, K. E., Bottiani, J. H., Pas, E. T., **Kush, J. M.**, & Bradshaw, C. P. (2019). A multilevel analysis of racial discipline disproportionality: A focus on student perceptions of academic engagement and disciplinary environment. *Journal of School Psychology*, 77, 152-167. <https://doi.org/10.1016/j.jsp.2019.09.003>
- Morin, H. K., Bradshaw, C. P., & **Kush, J. M.** (2018). Adjustment outcomes of victims of cyberbullying: The role of personal and contextual factors. *Journal of School Psychology*, 70, 74-88. <https://doi.org/10.1016/j.jsp.2018.07.002>
- Manuscripts under review*
- Musci, R. J., **Kush, J. M.**, Pas, E. T., & Bradshaw, C. P. (Under review, 2023). The use of mixture modeling with nested data: Considerations and recommendations for class enumeration.

Goulter, N., Susukida, R., Aminesmaeili, M., **Kush, J. M.**, Godwin, J., Masyn, K. E., McMahon, R. J., Eddy, J. M., Ialongo, N. S., Tolan, P. H., Conduct Problems Prevention Research Group, Wilcox, H. C., & Musci, R. J. (Under review, 2023). Impulsivity profiles across five harmonized longitudinal childhood preventive interventions and associations with adult outcomes.

#### *Manuscripts in progress*

Kitchen, C., **Kush, J. M.**, Zirikly, A., Belouali, A., Kharrazi, H., Nestadt, P., & Wilcox, H. C. (In progress, 2023). A review of suicide-related risks through propensity score methods using the Maryland Suicide Data Warehouse.

Wilcox, H. C., **Kush, J. M.**, Susukida, R., Amin-Esmaeili, M., Masyn, K. E., Godwin, J. E., Goulter, N., McMahon, R. J., Eddy, J. M., Tolan, P. H., Ialongo, N., & Musci, R. J. (In progress, 2023). The effects of early prevention on suicidal behaviors: Integrative data analysis from randomized school-based prevention trials with longitudinal outcome data.

#### *Whitepapers, preprints, and opinion articles*

Brown, T. J., & **Kush, J. M.** (2023). Equity, data and the in-person/online divide. *Inside Higher Ed.* <https://www.insidehighered.com/opinion/views/2023/06/15/equity-data-and-persononline-divide-opinion>

**Kush, J. M.**, Badillo-Goicoechea, E., Musci, R. J., & Stuart, E. A. (2022). Teacher mental health during the COVID-19 pandemic: Informing policies to support teacher well-being and effective teaching practices. <https://arxiv.org/abs/2109.01547>

### **Conference Presentations and Posters**

#### *Presentations*

Wild, A. N., & **Kush, J. M.** (2023, October). Real or fake? Connecting student learning and graduation rates across time. Northeastern Educational Research Association, Trumbull, CT.

**Kush, J. M.**, Masyn, K. E., Amin-Esmaeili, M., Susukida, R., Wilcox, H. C., & Musci, R. J. (2022, June). Extending moderated nonlinear factor analysis to mixture models. Society for Prevention Research, Seattle, WA.

Bradshaw, C. P., **Kush, J. M.**, Braun, S. S., & Barton, E. A. (2022, February). Educator stress, coping, and well-being during the COVID-19 pandemic. National Association of School Psychologists, Boston, MA.

**Kush, J. M.**, Badillo-Goicoechea, E., Musci, R. J., & Stuart, E. A. (2021, September). Teacher mental health during the COVID-19 pandemic: Informing policies to support teacher well-being and effective teaching practices. Society for Research on Educational Effectiveness, Arlington, VA.

Bradshaw, C. P., **Kush, J. M.**, Braun, S. S., & Barton, E. A. (2021, June). Understanding the perceived impact of COVID-19 on teacher and administrator stress and the social-

emotional functioning of their students. Society for Prevention Research, Virtual Meeting.

**Kush, J. M.**, Konold, T. R., & Bradshaw, C. P. (2021, April). The role of sampling ratio in multilevel structural equation models. American Educational Research Association, Virtual Meeting.

Musci, R. J., & **Kush, J. M.** (2020, May). Class enumeration in latent class analysis with nested data. Society for Prevention Research, Washington, D.C.

**Kush, J. M.** (2019, May). Unbalanced cluster sizes and variation in sampling in cluster randomized controlled trials: What's the impact on power? Society for Prevention Research, San Francisco, CA.

Ryoo, J. H., Pas, E. T., **Kush, J. M.**, Musci, R., & Bradshaw, C. P. (2018, May). Efficiency of propensity score methods in longitudinal and multilevel data via monte carlo simulation. Society for Prevention Research, Washington, D.C.

Ryoo, J. H., **Kush, J. M.**, Pas, E. T., Musci, R., & Bradshaw, C. P. (2018, May). Investigation of propensity score matching paradox in longitudinal data. Society for Prevention Research, Washington, D.C.

Bradshaw, C. P., Ryoo, J. H., Pas, E. T., **Kush, J. M.**, & Musci, R. (2018, May). Impacts of state-mandated pbis implementation on behavior and achievement outcomes. Society for Prevention Research, Washington, D.C.

Ryoo, J. H., Bradshaw, C. P., & **Kush, J. M.** (2017, July). Propensity score analysis using superlearner for longitudinal data. Psychometric Society, Zürich, Switzerland.

#### *Posters*

**Kush, J. M.**, Masyn, K. E., & Musci, R. J. (2022, April). Utilizing moderated nonlinear factor analysis models for integrative data analysis. American Educational Research Association, San Diego, CA.

**Kush, J. M.** (2020, June). Statistical power for randomized trials with clusters of varying size. Modern Modeling Methods, Storrs, CT.

**Kush, J. M.**, & Catherine, C. P. (2019, March). The TOCA-C: An efficient approach to measuring children's social, emotional, and behavioral functioning by teachers. Society for Research in Child Development, Baltimore, MD.

Ryoo, J. H., **Kush, J. M.**, Pas, E. T., Musci, R., & Bradshaw, C. P. (2018, May). Power analysis in multilevel data with variability in the level 1 units. Society for Prevention Research, Washington, DC.

#### *Webinars*

Brown, J. T., Volk, F., & **Kush, J. M.** (2022, May). Equity and a build environment of differences: Towards more equitable residential life experiences.  
[https://www.youtube.com/watch?v=-bE\\_EOhpDRg](https://www.youtube.com/watch?v=-bE_EOhpDRg)

## TEACHING AND RESEARCH GRANT EXPERIENCE

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### Teaching Experience

1. Quasi-Experimental Research Designs, Spring 2023  
James Madison University, PSYC 803 (graduate-level instructor)
2. Intermediate Inferential Statistics, Fall 2023  
James Madison University, PSYC 605 (graduate-level instructor)
3. Fundamentals of Health and Social Science Statistics, Fall 2019  
University of Virginia, EDLF 2080 (undergraduate-level instructor)
4. Multilevel Modeling in Education Research, Fall 2018  
University of Virginia, EDLF 8360 (graduate-level teaching assistant)
5. Quantitative Methods II: General Linear Models, Spring 2018  
University of Virginia, EDLF 7420 (graduate-level teaching assistant)

### Research Grant Experience

1. Evaluating Maryland State Policies to Improve School Climate

Funding	Institute of Education Sciences (IES)
ID	R305H150027
Role	Research Associate (PIs: Bradshaw, C. P., Alexander, A., & Pas, E. T.)
Period	07/2015 – 06/2020
Total	\$2,756,311
Topic	Assessing the implementation fidelity and effectiveness of Positive Behavioral Interventions and Supports (PBIS), a school-wide intervention mandated throughout the state of Maryland.

2. Implementing State-Level Policy Reform to Eliminate School Discipline Disparities: A Mixed Methods Examination

Funding	William T. Grant Foundation
Role	Research Associate (PIs: Bottiani, J. H., & Bradshaw, C. P.)
Period	04/2018 – 03/2021
Total	\$150,403
Topic	To evaluate the effectiveness of a state-level policy to reduce discipline disparities for Black youth.

3. Examining the Association between Residence Hall Design, Student Socialization Processes, and Academic Outcomes

Funding	Association of College and University Housing Officers - International (ACUHO-I)
Role	Co-Investigator (PI: Brown, J.)
Period	07/2020 – 12/2021

Total \$5,000  
 Topic Investigating interactions among residence hall type, race, and hall-specific socialization processes related to first-year student outcomes in the form of student interactions and student learning.

#### 4. Netting Prevention Intervention Butterfly Effects: An Integrative Data Analysis Investigating the Long-term and Cross-over Effects of Randomized, School-based Prevention Programs on Adult Mental Health

Funding National Institute of Mental Health (NIMH)  
 ID R01MH122214  
 Role Research Associate (PIs: Musci, R. J., & Wilcox, H. C.)  
 Period 12/2019 – 11/2022  
 Total \$514,525  
 Topic To link and harmonize data from six randomized controlled trials with preventive interventions to understand long-term impacts on mental health outcomes through early adulthood, including suicidal behaviors, depression and anxiety symptoms and diagnoses, and psychosis symptoms.

#### 5. Addressing Suicide Research Gaps: Understanding Mortality Outcomes in the Mid-Atlantic Region

Funding National Institute of Mental Health (NIMH)  
 ID R56MH117560  
 Role Statistical Analyst (PIs: Kharrazi, H. H. K., & Wilcox, H. C.)  
 Period 09/2019 – 09/2020  
 Total \$492,000  
 Topic Conducting data linkage and informatics approaches to utilize existing resources to improve suicide risk identification and prevention.

### **Statistical Software Training**

Advanced: R, Mplus, Stata, HLM, and SPSS

Learning: Stan, flexMIRT, and SAS

## **SERVICE**

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### **Mentorship**

2023–present: Supervisor, Autumn N. Wild, Assessment and Measurement Ph.D.  
 2023–present: Supervisor, Mara E. McFadden, Assessment and Measurement Ph.D.  
 2023–present: Committee member, Sean A. York, Assessment and Measurement Ph.D.  
 2023–present: Committee member, Shayna M. Finn, Counseling and Supervision Ph.D.  
 2023–present: Committee member, Mason R. Jones, Psychological Sciences M.A.  
 2023–present: Committee member, Riley R. Herr, Psychological Sciences M.A.

### **Ad-Hoc Reviewing Activities**

*Research & Practice in Assessment*  
*The Journal of Experimental Education*  
*Prevention Science*  
*Global Mental Health*  
*Education Sciences*  
*Scientific Reports*

### **Conference Reviewing Activities**

American Educational Research Association, 2021-Present  
American Educational Research Association Division D Graduate Student Council In-Progress  
Research Gala, 2021  
Hunter Student Research Conference, 2021  
Curry Research Conference, 2018-2020

### **Invited Talks**

National Board of Medical Examiners (NBME), 2023

### **Profession Affiliations**

American Educational Research Association (AERA, Division D)  
American Psychological Association (APA, Division 5)  
Society for Prevention Research (SPR)  
Society for Research on Educational Effectiveness (SREE)

### **Select Media**

Inside Higher Ed  
Forbes  
The 74  
K-12 Dive  
NBC Washington  
LA School Report  
United Press International  
District Administration  
Education Week  
American Educational Research Association