

## Professional History & Education

- **Assistant Professor of Psychology** 2017 - Current  
*University of Notre Dame* Notre Dame, Indiana
- **Ph.D. Psychology** August 2017  
*University of Southern California (USC)* Los Angeles, California  
– Area: Quantitative Methods
- **M.A. Psychology** 2011-2013  
*University of Northern Iowa (UNI)* Cedar Falls, Iowa  
– Individualized Study: Quantitative Emphasis
- **B.A. Psychology** June 2010  
*Luther College* Decorah, Iowa

## Research Funding

### • Ongoing

- NIH R21 MH129688-01** 3/4/22-2/29/24  
Brooke Ammerman (Co-PI) & Ross Jacobucci (Co-PI)  
*Advancing Real-Time Suicide Risk Detection Through the Digital Phenotyping Smartphone Application Screenomics*  
Total Costs: \$430,375
- NIH R21 MH131978-01** 12/12/22-11/30/24  
Ross Jacobucci (Co-PI) & Brooke Ammerman (Co-PI)  
*Improving Momentary Suicide Risk Identification Through Adaptive Time Sampling*  
Total Costs: \$430,375
- NIH TRA RFA-RM-21-017** 7/1/2022-6/30/2027  
Theodore Beauchaine (PI)  
Role: Co-I  
*Leveraging Noninvasive Transcutaneous Vagus Nerve Stimulation and Smartphone Technology to Reduce Suicidal Behaviors and Suicide Among Highly Vulnerable Adolescents*  
Total Direct: \$ 2,995,095
- NIH AIM-AHEAD Pilot Program** 9/1/2022-9/1/2023  
Allen Tien (PI)  
Role: Consultant  
*Establishing student project capabilities to improve suicide prevention (PROTECT): Rich data access, ML algorithm optimization, translation to practice (Model C)*  
Total Direct: \$ 495,000
- ND Lucy Family Institute for Data & Society** 6/1/2022 - 5/31/2023  
Ross Jacobucci (PI)  
*ATIS: Adaptive Time and Item Sampling for Improving Momentary Suicide Risk Identification.*  
Total Costs: \$7,958

### • Completed

Ross Jacobucci (PI) Loan Repayment Programs (Clinical) <b>National Institutes of Mental Health</b> <i>Integrative Data Analysis for Increasing the Prediction of Suicide</i>	7/1/19 - 6/30/21
Ross Jacobucci (PI) <b>Notre Dame Faculty Initiation Grant.</b> <i>Dynamic Multimodal Assessment of Suicide Risk: An Initial Application.</i> Total Direct: \$9,930	1/1/20-12/31/20
Ross Jacobucci (PI) Small Research and Creative Work grant <b>Institute for Scholarship in the Liberal Arts (ND)</b> <i>Text Analysis for the Prediction of Suicide: A Pilot Study</i> \$2,475	Academic Year 2018-2019
Ross Jacobucci (Co-PI) & Brooke Ammerman (Co-PI) <b>Advanced Diagnostics and Therapeutics Discovery Fund.</b> <i>Using Integrative Data Mining to Improve the Prediction of Suicide: An Initial Application.</i> Total Direct: \$41,068	8/13/18 - 8/13/20

## Awards/Honors

- 2021 Elected Member**  
Society of Multivariate Experimental Psychology.
- 2021 APS Rising Star**  
Association for Psychological Science.
- 2019 Anastasi Dissertation Award**  
Division 5, American Psychological Association

## Books

- Jacobucci, R., Grimm, K. J., & Zhang, Z. (forthcoming). *Machine learning for social and behavioral research*. New York, NY: Guilford.

## Publications

\* refers to undergraduate students, @ graduate advisees (@<sub>1</sub> for graduate advisees that I was not the primary mentor), and (+) for postdocs.

### • Under Review Preprints

1. @McClure, K., & Jacobucci, R. (2021, August 6). Are Items More Than Indicators? An examination of psychometric homogeneity, item-specific effects, and consequences for structural equation models. <https://doi.org/10.31234/osf.io/n4mxv>

### • Peer Reviewed Publications

51. Jacobucci, R., @McClure, K., & Ammerman, B. (in press). Comparing the Role of Perceived Burdensomeness and Thwarted Belongingness in Prospectively Predicting Active Suicidal Ideation. *Suicide and Life-Threatening Behaviors*.

50. @Wilcox, K. T., **Jacobucci, R.**, Zhang, Z., & Ammerman, B. A. (in press). Supervised Latent Dirichlet Allocation with Covariates: A Bayesian Structural and Measurement Model of Text and Covariates. *Psychological Methods*.
49. Case, J.A.C., Sullivan-Toole, H., Mattoni, M., **Jacobucci, R.**, Forbes, E.E., & Olino, T.M. (2022). Evaluating the Item-Level Factor Structure of Anhedonia. *Journal of Affective Disorders*, 299, 215-222.
48. Grimm, K. J., **Jacobucci, R.**, Stegmann, G., & Serang, S. (2022). Explorations of individual change processes and their determinants: A novel approach and remaining challenges. *Multivariate Behavioral Research*, 57, 525-542.
47. **Jacobucci, R.** (2022). A Critique of Using the Labels Confirmatory and Exploratory in Modern Psychological Research. *Frontiers in Psychology*, 13. <https://doi.org/10.3389/fpsyg.2022.1020770>
46. @Li, X., & **Jacobucci, R.** (2022). Regularized structural equation modeling with stability selection. *Psychological Methods*, 27, 497-518. <https://doi.org/10.1037/met0000389>
45. **Jacobucci, R.** & @Li, X. (2022). Does Minority Case Sampling Improve Performance with Imbalanced Outcomes in Psychological Research? *Journal of Behavioral Data Science*, 2(1), 1-16. DOI:<https://doi.org/10.35566/jbds/v2n1/p3>
44. Burke, T. A., @Shao, S., **Jacobucci, R.**, Kautz, M., Alloy, L. B., & Ammerman, B. A. (2022). Examining momentary associations between behavioral approach system indices and nonsuicidal self-injury urges. *Journal of Affective Disorders*, 296. 244-249.
43. Ammerman, B.A., Burke, T. A., **Jacobucci, R.**, @McClure, K., & Lui, R. T. (2021). A prospective examination of COVID-19-related social distancing practices on suicidal ideation. *Suicide and Life-Threatening Behavior*, 51, 969-977.
42. Ammerman, B. A., Burke, T. A., **Jacobucci, R.**, & @McClure, K. (2021). How we ask matters: The impact of question wording in single-item measurement of suicidal thoughts and behaviors. *Preventive Medicine*, 152, 106472.
41. Ortiz, S. N., Forrest, L. N., Kinkel-Ram, S. S., **Jacobucci, R. C.**, & Smith, A. R. (2021). Using shape and weight overvaluation to empirically differentiate severity of other specified feeding or eating disorder. *Journal of Affective Disorders*, 295, 446-452.
40. @Li, X. & **Jacobucci, R.**, & Ammerman, B. A. (2021). Tutorial on the use of the regsem package in R. *Psych*, 3. 579-593.
39. Ammerman, B.A., Burke, T.A., **Jacobucci, R.**, & @McClure, K. (2021). Preliminary investigation of the association between COVID-19 and suicidal thoughts and behaviors in the U.S. *Journal of Psychiatric Research*, 134, 32-38.
38. +Ober, T., Cheng, Y., **Jacobucci, R.**, & Whitney, B, M. (2021). Examining the within-domain factor structure of the big five inventory-2 with an adolescent sample. *Psychological Assessment*, 33, 14-28.
37. Rodgers, D. M., **Jacobucci, R.**, & Grimm, K. J. (2021). A multiple imputation approach for handling missing data in classification and regression trees. *Journal of Behavioral Data Science*, 1, 127-153..
36. Littlefield, A. K., Cooke, J. T., Bagge, C., Glenn, C., Kleiman, E. M., **Jacobucci, R.**, Millner, A. J., & Steinley, D. (2021). Machine Learning to Classify Suicidal Thoughts and Behaviors: Implementation within the Common Data Elements used by the Military Suicide Research Consortium. *Clinical Psychological Science*, 9, 467-481.
35. **Jacobucci, R.**, Littlefield, A., Millner, A. J., Kleiman, E. M., & Steinley, D. (2021). Evidence of inflated prediction performance: A commentary on machine learning and suicide research. *Clinical Psychological Science*, 9, 129-134.
34. **Jacobucci, R.**, Ammerman, B. A., & @Wilcox, K. (2021). The application of machine learning for text-based responses to improve suicide risk prediction. *Suicide and Life Threatening Behavior*, 51, 55-64.
33. **Jacobucci, R.**, Ammerman, B. A., & @Li, X. (2021). Using ordinal regression for advancing the understanding of distinct suicide outcomes. *Suicide and Life Threatening Behavior*, 51, 65-75.

32. Grimm, K. J., & **Jacobucci, R.** (2021). Reliable trees: Reliability informed recursive partitioning for psychological data. *Multivariate Behavioral Research*, *56*, 595-607.
31. Serang, S., **Jacobucci, R.**, Stegmann, G., Brandmaier, A. M., Cuianos, D., & Grimm, K. J. (2021). Mplus Trees: Structural equation model trees using Mplus. *Structural Equation Modeling*, *28*, 127-137.
30. Forrest, L., **Jacobucci, R.**, & Grilo, C. M. (2020). Empirically-Determined severity levels for binge-eating disorder outperform existing severity classification schemes. *Psychological Medicine*, *1-11*.
29. Jiang, M., Ammerman, B.A., @<sub>1</sub>Zeng, Q., **Jacobucci, R.**, & @<sub>1</sub>Brodersen, A. (2020). Phrase-level pairwise topic modeling to uncover helpful peer responses to online suicidal crises. *Humanities & Social Sciences Communications*, *7*, 1-13.
28. @Nelson, N. A., **Jacobucci, R.**, Grimm, K. J., & Zelinski, E. (2020). The Bi-directional relationship between physical health and memory. *Psychology & Aging*, *35*, 1140-1153.
27. @<sub>1</sub>Hong, M., **Jacobucci, R.**, & Lubke, G. (2020). Deductive Data Mining. *Psychological Methods*, *25*, 691-707.
26. Ammerman, B.A., **Jacobucci, R.**, Turner, B. J., Dixon-Gordon, K., & McCloskey, M.S. (2020). Quantifying the importance of lifetime frequency versus number of methods used in the consideration of NSSI severity. *Psychology of Violence*, *10* 442-451.
25. Liang, X., & **Jacobucci, R.** (2020). Regularized Structural Equation Modeling to Detect Measurement Bias: Evaluation of Lasso, Adaptive Lasso and Elastic Net. *Structural Equation Modeling*, *27*, 722-734.
24. Vargas, I., Haefel, G.J., **Jacobucci, R.**, Boyle, J.T., Mayer, S.E., & Lopez-Duran, L. (2020). Negative Cognitive Style And Cortisol Reactivity To A Laboratory Stressor: A Preliminary Study. *International Journal of Cognitive Therapy*, *13*, 1-14.
23. Burke, T. A., **Jacobucci, R.**, Ammerman, B. A., & Diamond, G. (2020). Using machine learning to classify suicide attempt history among youth in medical care settings. *Journal of Affective Disorders*, *268*, 206-214.
22. **Jacobucci, R.**, & Grimm, K. J. (2020). Machine learning and psychological research: The unexplored effect of measurement. *Perspectives on Psychological Science*, *15*, 809-816.
21. Serang, S. & **Jacobucci, R.** (2020). Exploratory mediation analysis of dichotomous outcomes via regularization. *Multivariate Behavioral Research*, *55*, 69-86.
20. @<sub>1</sub>Nelson, N. A., Bergeman, C. S., & **Jacobucci, R.** (2019). Future time perspective in mid-to-later life: The role of personality. *The Journal of Gerontology: Psychological Science*, *gbz110*.
19. Ammerman, B. A., Hong, M., Sorgi, K. M., **Jacobucci, R.**, Park, Y., & McCloskey, M. S. (2019). An examination of individual forms of nonsuicidal self-injury. *Psychiatry Research*, *278*, 268-274.
18. Burke, T.A., Ammerman, B.A., & **Jacobucci, R.** (2019). The use of machine learning in the study of suicidal and non-suicidal self-injurious thoughts and behavior: A systematic review. *Journal of Affective Disorders*, *245*, 869-884.
17. **Jacobucci, R.**, Serang, S., & Grimm, K. J. (2019). A short note on complications in interpretation with the dual change score model . *Structural Equation Modeling*, *26*, 924-930.
16. Ammerman, B.A., **Jacobucci, R.** & McCloskey, M.S. (2019). Re-considering important outcomes of the NSSI disorder diagnostic criterion A. *Journal of Clinical Psychology*, *75*, 1084-1097.
15. **Jacobucci, R.**, Brandmaier, A., & Kievit, R. (2019). A practical guide to variable selection in structural equation models with regularized MIMIC models. *Advances in Methods and Practices in Psychological Science*, *2*, 55-76.
14. Usami, S., **Jacobucci, R.**, & Hayes, T. (2019). The performance of latent growth curve model based structural equation model trees to uncover population heterogeneity in growth trajectories. *Computational Statistics*, *34*, 1-22.

13. Ammerman, B. A., Serang, S., **Jacobucci, R.**, Burke, T., A., Alloy, L. B., & McCloskey, M. S. (2018). Exploratory analysis of mediators in the relationship between childhood maltreatment and suicidal behavior. *Journal of Adolescence, 69*, 103-112.
12. Stegmann, G., **Jacobucci, R.**, Serang, S., & Grimm, K. J. (2018). Recursive partitioning with nonlinear change trajectories. *Multivariate Behavioral Research, 53*, 559-570.
11. Burke, T. A., **Jacobucci, R.**, Ammerman, B. A., Piccirillo, M., McCloskey M., & Alloy, L. B. (2018). Identifying the relative importance of non-suicidal self-injury features in predicting suicidal ideation and behavior using exploratory data mining. *Psychiatry Research, 262*, 175-183.
10. Ammerman, B. A., **Jacobucci, R.**, & McCloskey, M. S. (2018). Using exploratory data mining to identify important predictors of non-suicidal self-injury frequency. *Psychology of Violence, 8*, 515-525.
9. Ammerman, B. A., **Jacobucci, R.**, Kleiman, E. M., Uyeji, L., & McCloskey, M. S. (2018). The relationship between nonsuicidal self-injury age of onset and severity of self-harm. *Suicide and Life Threatening Behavior, 48*, 31-37.
8. **Jacobucci, R.**, Grimm, K. J. (2018). Comparison of frequentist and Bayesian regularization in structural equation modeling. *Structural Equation Modeling, 25*, 639-649.
7. Stegmann, G., **Jacobucci, R.**, Harring, J., & Grimm, K. J. (2018). Nonlinear mixed-effects modeling programs in R. *Structural Equation Modeling, 25*, 160-165.
6. Serang, S., **Jacobucci, R.**, Brimhall, K. C., & Grimm, K. J. (2017). Exploratory mediation analysis via regularization. *Structural Equation Modeling, 24*. 733-744.
5. **Jacobucci, R.**, Grimm, K. J., & McArdle, J. J. (2017). A comparison of methods for uncovering sample heterogeneity: Structural equation model trees and finite mixture models. *Structural Equation Modeling, 24*. 270-282.
4. Ammerman, B. A., **Jacobucci, R.**, Kleiman, E. M., Muehlenkamp, J. J., & McCloskey, M. S. (2017). Development and validation of empirically derived frequency criteria for NSSI disorder using exploratory data mining. *Psychological Assessment, 29*, 221-231.
3. **Jacobucci, R.**, Grimm, K. J., & McArdle, J. J. (2016). Regularized structural equation modeling. *Structural Equation Modeling, 23*, 555-566. doi:10.1080/10705511.2016.1154793. PMID: 4937830
2. Hayes, T., Usami, S., **Jacobucci, R.**, & McArdle, J. J. (2015). Using classification and regression trees (CART) and random forests to analyze attrition in longitudinal data: Results from two simulation studies. *Psychology and Aging, 30*, 911-929. doi:10.1037/pag0000046. PMID: 4743660
1. Skaar, N. R., Christ, T. J., & **Jacobucci, R.** (2014). Measuring adolescent prosocial and health risk behavior in schools: Initial development of a screening measure. *School Mental Health, 6*, 137-149. doi:10.1007/s12310-014-9123-y

## • Other Publications

3. **Jacobucci, R.**, @Shao, S., & @Hattori, M. (2020). On the integration of machine learning and psychometrics. *The Score (APA Div. 5 Newsletter)*.
2. @Hong, M. R., **Jacobucci, R.**. (2019). Review of Growth Modeling: Structural Equation and Multilevel Modeling Approaches (Grimm, Ram & Estabrook, 2017). *Psychometrika, 84*, 327-332.
1. Grimm, K. J., **Jacobucci, R.**, McArdle, J. J. (January, 2017). Big data methods and psychological science. *Psychological Science Agenda*.

## • Chapters

4. Brandmaier, A. M. & **Jacobucci, R.** (forthcoming). Machine-learning approaches to structural equation modeling. In R. H. Hoyle (Ed.), *Handbook of structural equation modeling*. Guilford Press.

3. Grimm, K. J., Stegmann, G., **Jacobucci, R.**, & Serang, S. (2020). Big data in developmental psychology. In S. E. Woo, L. Tay, & R. W. Proctor (Eds.), *Big data methods for psychological research: New horizons and challenges*. Washington, DC: American Psychological Association.
2. **Jacobucci, R.** & Grimm, K. J. (2018). Regularized estimation of multivariate latent change score models. *Advances in Longitudinal Models for Multivariate Psychology: A Festschrift for Jack McArdle*, 109-125. Routledge, London.
1. Grimm, K. J. & **Jacobucci, R.** (2018). Individually varying time metrics in latent change score models. *Advances in Longitudinal Models for Multivariate Psychology: A Festschrift for Jack McArdle*. Routledge, London.

## • Technical Reports

2. **Jacobucci, R.** (2018, January 18). Decision tree stability and its effect on interpretation. *PsyArXiv preprint*: <https://doi.org/10.31234/osf.io/f2utw>.
1. **Jacobucci, R.** (2017). regsem: Regularized Structural Equation Modeling. *arXiv preprint arXiv:1703.08489*.

## Presentations

### • Invited Presentations

- Jacobucci, R.** (2022, May). *Heterogeneity in Suicide*. Invited talk given at the University of Virginia's Psychology Colloquium.
- Jacobucci, R.** (2022, February). *Measurement and Prediction*. Invited talk given at the UC Davis Quantitative Psychology Brown Bag Speaker Series.
- Jacobucci, R.** (2020, October). *Theory based dynamic text analysis*. Invited talk given to the Screenomics Lab at Stanford.
- Jacobucci, R.** (2020, October). *Using imperfectly measured predictors in machine learning*. Workforce Science workshop at Rice University in Houston, Texas. (Conference canceled)
- Jacobucci, R.** (2020, October). *Machine learning for suicide research*. Invited talk given at the UCLA Quantitative Psychology Brown Bag.
- Jacobucci, R.** (2019, May). *Flexible specification of large structural equation models with regularization*. Keynote speech given at the Big Data in Psychology Pre-Conference in Dubrovnik, Croatia. Video: <https://www.psycharchives.org/handle/20.500.12034/2118>
- Jacobucci, R.** (2019, February). *Novel assessment strategies for improving our understanding of mental health*. Invited talk given at the Quant Methods colloquium at Vanderbilt University.
- Jacobucci, R.**, Hong, M., Brandmaier, A., Ammerman, B., & McCloskey, M. (2018, October). *Assessing Continuous Versus Categorical Diagnosis Using Latent Variable Modeling*. Invited talk given at the Arizona State Quantitative Psychology brown bag.
- Jacobucci, R.**, Hong, M., Brandmaier, A., Ammerman, B., & McCloskey, M. (2018, October). *Assessing Continuous Versus Categorical Diagnosis Using Latent Variable Modeling*. Invited talk given at the Quantitative Developmental Systems Methodology Core at Penn State University.
- Jacobucci, R.** (2018, July). *Flexible specification of large structural equation models with regularization*. Invited talk given at the Max Planck Institute for Human Development in Berlin, Germany.

### • Oral Presentations

- @Shao, S., **Jacobucci, R.**, (2021, July). Dynamic Poisson Factor Analysis: A Hierarchical Bayesian Approach with Intensive Text Data. Invited symposium at the International Meeting of the Psychometric Society. Won the best student presentation award sponsored by Duolingo.
- @McClure, K.E., **Jacobucci, R.**, & Ammerman, B.A. (2020, March). Disclosure of Suicidality and Open-Response Questions: A Blended Text Mining Approach. Paper submitted for presentation at the 54th Annual Convention for the Association for Behavioral and Cognitive Therapies, Philadelphia, Pennsylvania.
- Jacobucci, R.** (2019, November). The use text mining for clinical research: An overview of the methodology. Paper presented at the 53rd Annual Convention for the Association for Behavioral and Cognitive Therapies, Atlanta, Georgia.
- Ammerman, B.A., Wilcox, K. T., & **Jacobucci, R.** (2019, November) A nuanced examination of the relationship between social connectedness and suicidal ideation. Paper presented at the 53rd Annual Convention for the Association for Behavioral and Cognitive Therapies, Atlanta, Georgia.
- Park, Y., O'Loughlin, C. M., **Jacobucci, R.**, & Ammerman, B.A. (2019, November). Examining person-specific reasons for living in the prediction of suicidal ideation: A text mining approach. Paper presented at the 53rd Annual Convention for the Association for Behavioral and Cognitive Therapies, Atlanta, Georgia.
- Wilcox, K. T., **Jacobucci, R.**, McCloskey, M. S. & Ammerman, B.A. (2019, November). Evaluating personal narratives of interpersonal relationships via text mining to predict nonsuicidal self-injury. Paper presented at the 53rd Annual Convention for the Association for Behavioral and Cognitive Therapies, Atlanta, Georgia.
- Jacobucci, R.**, Hong, M., Brandmaier, A., Ammerman, B., & McCloskey, M. (2018, September). *Assessing Continuous Versus Categorical Diagnosis Using Latent Variable Modeling*. Talk given at the Quantitative Studies Group at the University of Notre Dame.
- Stegmann, G., **Jacobucci, R.**, Serang, S., & Grimm, K. J. (2018, July). *Identifying divergent nonlinear growth trajectories using recursive partitioning*. International Meeting of Psychometric Society. New York, NY.
- Grimm, K. J., Stegmann, G., **Jacobucci, R.**, & Serang, S. (2018, March). Machine learning approaches to understanding differences in longitudinal change trajectories. Keynote address at the 6th Annual Meeting of the Texas Universities' Educational Statistics and Psychometrics Alliance.
- Jacobucci, R.** (2017, November). *Exploratory data mining for a single outcome in clinical research*. Paper presented at the 51st Annual Convention for the Association for Behavioral and Cognitive Therapies, San Diego, California.
- Ammerman, B. A., **Jacobucci, R.**, Turner, B. J., Serang, S., & McCloskey, M. S. (2017, November). *Quantifying the importance of lifetime frequency versus number of methods used in the consideration of NSSI severity*. Paper presented at the 51st Annual Convention for the Association for Behavioral and Cognitive Therapies, San Diego, California.
- Jacobucci, R.**, Serang, S., & Ammerman, B.A. (2017, November). *Multivariate approaches to exploratory data mining with the application of exploratory mediation for self-injury*. Paper presented at the 51st Annual Convention for the Association for Behavioral and Cognitive Therapies, San Diego, California.
- Burke, T. A., **Jacobucci, R.**, Ammerman, B.A., Hamilton, J. L., & Alloy, L. B. (2017, June). *Using exploratory data mining to compare importance of risk factors in predicting recent versus former history of non-suicidal self-injury*. Paper presented at the 51st Annual Convention for the Association for Behavioral and Cognitive Therapies, San Diego, California.
- Kleiman, E.M., **Jacobucci, R.**, Ammerman, B.A., Turner, B.J., Beale, E.E., Fedeor, S., Huffman, J.C., & Nock, M. K. (2017, June). *What affect states are most strongly associated with suicidal ideation? A real-time monitoring, exploratory data mining study*. Paper presented at the 51st Annual Convention for the Association for Behavioral and Cognitive Therapies, San Diego, California.
- Zelinski, E. M., **Jacobucci, R.** (2017, July). *Heterogeneity in cognitive change trajectories of older adults observed from structural equation model trees*. Alzheimer's Association International Conference in London, UK

- Burke, T. A., **Jacobucci, R.**, Ammerman, B. A., Piccirillo, M., McCloskey M., & Alloy, L. B. (2017, April). *Identifying the relative importance of non-suicidal self-injury features in predicting suicidal ideation and behavior using exploratory data mining*. Paper presented at the 50th Annual Conference of American Association of Suicidology in Pheonix, Arizona.
- Jacobucci, R.**, Zelinski, E. M. (2016, November). *The bi-directional relationship between health and cognition in older age*. Paper presented at the Gerontological Society of America Annual Meeting, New Orleans, Louisiana.
- Peters, K., **Jacobucci, R.**, Prescott, C., Walters, E., McArdle, J. J. (2016, November). *Computerized adaptive testing of cognitive abilities in the Project Talent Aging Study*. Paper presented at the Gerontological Society of America Annual Meeting, New Orleans, Louisiana.
- Jacobucci, R.**, Grimm, K. J. (2016, October). *Pseudo-continuous testing of the latent difference score model*. Paper invited for presentation at the conference to honor the work of Jack McArdle, Richmond, Virginia.
- Grimm, K. J., **Jacobucci, R.** (2016, October). *Individually-varying time metrics in latent change score models*. Paper invited for presentation at the conference to honor the work of Jack McArdle, Richmond, Virginia.
- Jacobucci, R.**, Grimm, K. J., McArdle, J. J. (2016, July). *Comparison of frequentist and Bayesian regularization in structural equation modeling*. Paper presented at the International Meeting for the Psychometric Society, Asheville, North Carolina.
- Ammerman, B. A., **Jacobucci, R.**, Kleiman, E. M., Muehlenkamp, J., J. & McCloskey, M. S. (2015, November). *The exploration and validation of an empirically derived frequency criteria for NSSI Disorder*. Paper presented at the 49th Annual Convention for the Association for Behavioral and Cognitive Therapies, Chicago, Illinois
- Jacobucci, R.**, Prindle, J. J., McArdle, J. J. (2015, September). *An Application of Exploratory Data Mining in Project TALENT*. Paper presented at the International Meeting for Intelligence Research Annual Conference, Albuquerque, New Mexico.

## • Poster Presentations

- Jacobucci, R.**, & Zelinski, E. M. (2017, July). *Exploratory Search for Heterogeneity in Change Across Old Age Using Structural Equation Model Trees*. Poster presented at the International Association of Gerontology and Geriatrics, San Francisco, California.
- Khoddam, R., Cho, J., Jacobucci, R., Prescott, C. A., & Leventhal, A. M. (2017, March). *Bivariate Latent Difference Score Modeling to Examine the Relationship between Conduct Problems and Cigarette Smoking among Adolescents*. Poster presented at the Society for Research on Nicotine and Tobacco annual meeting, Florence, Italy.
- Ammerman, B. A., **Jacobucci, R.**, & McCloskey, M. S. (2016, June). *The Prediction of Non-Suicidal Self-Injury Frequency Using Random Forests*. Poster presented at the 11th Annual Meeting of the International Society for the Study of Self-Injury, Eau Claire, Wisconsin.
- Jacobucci, R.**, Hayes, T., Zelinski, E. M. (2015, November). *Evaluating Methods for Generalizing from a Convenience Sample*. Poster presented at the 68th Annual Scientific Meeting of the Gerontological Society of America, Orlando, Florida.
- Zelinski, E., **Jacobucci, R.**, Kennison, R., & Zak, D. (2014, November). *Can a convenience sample produce generalizable results?* Poster session presented at the Gerontological Society of America Annual Scientific Meeting, Washington, DC.
- Jacobucci, R.**, Williams, J. E., & Thiruselvam, I. (2013, January). *A confirmatory factor analysis of the short form for the IPIP-NEO five-factor model personality scale*. Poster session presented at the Society for Personality and Social Psychology, New Orleans, Louisiana.
- Jacobucci, R.**, Brownfield, C., & Williams, J. E. (2012, December). *Intelligence as a factor in criminal offender risk assessment*. Poster session presented at the International Society for Intelligence Research, San Antonio, Texas.



**Jacobucci, R.**, Williams, J. E., & Thiruselvam, I. (2012, March). *Convergent validity of two short form measures of the five factor model of personality*. Poster session presented at the Iowa Psychological Association Spring Conference, Ames, Iowa.

## Software

**Jacobucci, R.** et al. (2020). regsem: Performs Regularization on Structural Equation Models (version 1.5.2) [Software]. Available from <https://cran.r-project.org/web/packages/index.html>

Serang, S., **Jacobucci, R.**, Grimm, K. J., Stegmann, G., & Brandmaier, A. M. (2020). MplusTrees: Decision Trees with Structural Equation Models Fit in 'Mplus' (version 0.1.1) [Software]. Available from <https://cran.r-project.org/web/packages/MplusTrees/index.html>

**Jacobucci, R.**, Stewart, S., Abdolell, M., Serang, S., & Stegmann, G. (2017). longRPart2: Recursive Partitioning of Longitudinal Data (version 0.0.1) [Software]. Available from <https://cran.r-project.org/web/packages/longRPart2/index.html>

**Jacobucci, R.** (2018). dtree: Decision Trees (version 0.4.2) [Software]. Available from <https://cran.r-project.org/web/packages/dtree/index.html>

**Jacobucci, R.** (2016). autosem: Performs Specification Search in Structural Equation Models (version 0.1.0) [Software]. Available from <https://cran.r-project.org/web/packages/autoSEM/index.html>

## Teaching Experience

- **Classes**

- **Undergraduate Psych Statistics**

- PSY30100 - 03: Experimental Psychology I - Statistics  
Fall 2017, 2018, & 2020, University of Notre Dame

- **Graduate Regression**

- PSY60101 - 01: Quantitative Methods in Psychology II  
Spring 2018, 2019, 2020, 2021, & 2022, University of Notre Dame

- **Machine Learning for Social & Behavioral Research**

- Joint Undergraduate & Graduate  
Fall 2019, University of Notre Dame

- **Workshops**

- **Advanced Machine Learning**

- Statistical Horizons. October 2021 & May 2022  
Role: Instructor

- **Structural Equation Modeling in Longitudinal Research**

- APA Advanced Training Institutes. 2x: June 2020 & July 2020  
Role: Instructor

- **Exploratory Data Mining via SEARCH Strategies**

- 8/15/2016-8/19/2016 & 8/14/2017-8/18/2017  
University of Michigan, Ann Arbor, MI.  
Role: Lecturer and lab instructor.

- **Big Data: Exploratory Data Mining in Behavioral Research**

- APA Advanced Training Institutes. 6/6/2016-6/10/2016 & 6/5/2017-6/9/2017  
Arizona State University, Tempe, AZ  
Role: Lecturer and lab instructor.

**Structural Equation Modeling in Longitudinal Research**

APA Advanced Training Institutes. 6/6/2016-6/10/2016 & 5/30/2017-6/3/2017

Arizona State University, Tempe, AZ

Role: Lab instructor.

**Exploratory Data Mining via SEARCH Strategies**

6/8/2015-6/12/2015, University of Michigan, Ann Arbor, MI

Role: Lab instructor.

**Big Data: Exploratory Data Mining in Behavioral Research**

APA Advanced Training Institutes. 6/1/2015-6/5/2015, Arizona State University, Tempe, AZ

Role: Lab instructor.

**Professional Activities**

• **Editorial Boards**

Psychological Methods

Clinical Psychological Science

Journal for Quantitative and Computational Methods in Behavioral Sciences (QCMB)

• **Reviewing**

Journal of Consulting and Clinical Psychology; Structural Equation Modeling; Advances in Methods and Practices in Psychological Science; Multivariate Behavioral Research; Journal of Mathematical Psychology; Psychological Methods; Behavior Research Methods; Psychometrika; BMJ Open; Brain Sciences; JMIR Mental Health; Clinical Psychological Science; Addiction Research

• **Grant Reviewing**

NIMH

Swiss National Science Foundation