**Ross Jacobucci Curriculum Vitae**

118 Haggar Hall [rjacobuc@nd.edu](mailto:rjacobuc@nd.edu)

Notre Dame, Indiana 46556 rjacobucci.com

574-631-2589 Skype: ross.jacobucci

**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
  + Dissertation: Evaluating the Stability of Decision Tree Algorithms.

**M.A. Psychology** December 2015

* *University of Southern California (USC) Los Angeles, California*
  + Area: Quantitative Methods
  + Thesis: Regularized Structural Equation Modeling.

**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*
  + Thesis: The Effect of Mental Imagery on Performance in Golf.

**Research Funding**

# Pending

Ross Jacobucci (PI) Under Review

**IES Statistical and Research Methodology in Education: Early Career Grant** *Extending Regularized Structural Equation Modeling for Big Data in Education Research* Total Direct: $139,759

Ross Jacobucci (Co-PI) & Brooke Ammerman (Co-PI) Under Review

## NIH 1R03MH120488-01

*The Implementation and Validation of Integrative Machine Learning for Predicting Suicide Outcomes*

Total Direct: $99,188

# Ongoing

Ross Jacobucci (Co-PI) & Brooke Ammerman (Co-PI) 8/13/18-8/13/20

## Advanced Diagnostics and Therapeutics Discovery Fund.

*Using Integrative Data Mining to Improve the Prediction of Suicide: An Initial Application.*

Total Direct: $41,068

Evan Kleiman (PI) 6/26/18-12/26/19

## Military Suicide Research Consortium Common Data Elements

*Enhancing Identification of Suicide Risk among Military Service Members and Veterans: A Machine Learning*

*Approach to Suicidality.*

## Role: Consultant

* **Not Funded**

Ross Jacobucci (PI)

## NIH 1R01MH117597-01

*Integrative Data Mining in the Prediction of the Pathway to Suicide.*

Total Direct: $540,750

**Publications**

# Publications

**Jacobucci, R.**, Brandmaier, A., & Kievit, R. (accepted). A practicale guide to variable selection in structural equation models with regularized MIMIC models. *Advances in Methods and Practices in Psychological Science.*

Burke, T.A., Ammerman, B.A., & **Jacobucci, R.** (in press). 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.*

Hong, M. R., **Jacobucci, R.**. (in press). Review of Growth Modeling: Structural Equation and Multilevel Modeling Approaches (Grimm, Ram & Estabrook, 2017). *Psychometrika*.

Ammerman, B. A., Serang, S., **Jacobucci**, R., Burke, T., A., Alloy, L. B., & McCloskey, M. S. (in press).

Exploratory analysis of mediators in the relationship between childhood maltreatment and suicidal behavior.

*Journal of Adolescence.*

Usami, S., **Jacobucci, R.**, & Hayes, T. (in press). The performance of latent growth curve model based structural equation model trees to uncover population heterogeneity in growth trajectories. *Computational Statistics*.

Stegmann, G., **Jacobucci, R.**, Serang, S., & Grimm, K. J. (2018). Recursive partitioning with nonlinear change trajectories. *Multivariate Behavioral Research, 53*, 559-570,.

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.

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.

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.

**Jacobucci, R.**, Grimm, K. J. (2018). Comparison of frequentist and Bayesian regularization in structural equation modeling. *Structural Equation Modeling, 25*, 639-649.

Stegmann, G., **Jacobucci, R.**, Harring, J., & Grimm, K. J. (2018). Nonlinear mixed-effects modeling programs in R. *Structural Equation Modeling, 25*, 160-165.

Serang, S., **Jacobucci, R.**, Brimhall, K. C., & Grimm, K. J. (2017). Exploratory mediation analysis via regularization. *Structural Equation Modeling, 24*. 733-744.

**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.

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.

**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. PMCID: 4937830