Ross Jacobucci

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Curriculum Vitae
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Education

- **University of Southern California (USC)** Los Angeles, California
  Ph.D. Psychology *Expected Spring 2017*
  - Area: Quantitative Methods
  - Dissertation: On the Application of Decision Trees in both
    Psychological and Gerontological Research.

- **University of Southern California (USC)** Los Angeles, California
  M.A. Psychology *December 2015*
  - Area: Quantitative Methods
  - Thesis: Regularized Structural Equation Modeling

- **University of Northern Iowa (UNI)** Cedar Falls, Iowa
  M.A. Psychology *2011-2013*
  - Individualized Study: Quantitative Emphasis

- **Luther College** Decorah, Iowa
  B.A. Psychology *June 2010*
  - Thesis: The Effect of Mental Imagery on Performance in Golf.

Publications

- ### Publications

Jacobucci, R., Grimm, K. J., & McArdle, J. J. (in press). A comparison of methods for uncovering sample heterogeneity: Structural equation model trees and finite mixture models. *Structural Equation Modeling.*

Grimm, K. J., **Jacobucci, R.**, McArdle, J. J. (in press). Big data methods and psychological science. *Psycholgocical Science Agenda.*

Ammerman, B. A., **Jacobucci, R.**, Kleiman, E. M., Uyeji, L., & McCloskey, M. S. (in press). The impact of NSSI age of onset on severity and suicidality. *Suicide and Life Threatening Behavior.*

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

Ammerman, B. A., **Jacobucci, R.,**, Kleiman, E. M., Muehlenkamp, J. J., & McCloskey, M. S. (2016). Development and validation of empirically derived frequency criteria for NSSI disorder using exploratory data mining, *Psychological Assessment.*

Jacobucci, R., & McArdle, J. J. (2015). Abstract: Regularized structural equation modeling, *Multivariate Behavioral Research 50*, 736-736. doi:10.1080/00273171.2015.1121125.

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. PMCID: 4743660

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

- **Manuscripts Under Review**

  Serang, S., **Jacobucci, R.**, Brimhall, K. C., & Grimm, K. J. (in revision). Exploratory mediation analysis via regularization. *Structural Equation Modeling.*

  Jacobucci, R., Grimm, K. J. (under review). Comparison of frequentist and Bayesian regularization in structural equation modeling. *Structural Equation Modeling.*

  Ammerman, B. A., **Jacobucci, R.**, & McCloskey, M. S. (under review).Using exploratory data mining to identify important predictors of non-suicidal self-injury frequency. *Psychology of Violence.*

- **Manuscripts in Preparation**

  Jacobucci, R., Grimm, K. J., & Zelinski, E. M. (in preparation). The bi-directional relationship between health and cognition in older ages.

  Jacobucci, R., Grimm, K. J. (in preparation). Psuedo-Continuous testing of the latent change score model. Invited book chapter for Advances in Longitudinal Models for Multivariate Psychology: A Festschrift for Jack McArdle.

  Jacobucci, R., & Zelinski, E. M. (in preparation). Exploratory search for heterogeneity in change across older age using structural equation model trees.

  Burke, T. A., **Jacobucci, R.**, Ammerman, B. A.,, Piccirillo, M., McCloskey M., & Alloy, L. B. (in preparation). Identifying the relative importance of non-suicidal self-injury features in predicting suicidal ideation and behavior using exploratory data mining.

  McArdle, J. J, Bohrnstedt, G. A., Prescott, C. A., **Jacobucci, R.,** Grimm, K. J., Rebok, G., Lyter, D. A., & Lapham, S. (in preparation). A confirmatory examination of the factors of cognition as measured in Project TALENT.

  Jacobucci, R., Serang, S, & CogUSA Team (in preparation). Examination of mode effects in CogUSA survey administration.

Presentations

- **Invited Talks**

  Jacobucci, R., Grimm, K. J. (2016, October). *Psuedo-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.

- **Symposium Chair**

  Structural Equation Modeling. 2016 International Meeting for the Psychometric Society, Asheville, North Carolina.

- **Oral Presentations**

  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.

  Burke, T. A., **Jacobucci, R.**, Ammerman, B. A.,, Piccirillo, M., McCloskey M., & Alloy, L. B. (2016, October). *Identifying the relative importance of non-suicidal self-injury features in predicting suicidal ideation and behavior using exploratory data mining.* Submitted to 50th Annual Conference of American Association of Suicidology in Pheonix, Arizona.

Khoddam, R., Cho, J., **Jacobucci, R.**, Prescott, C., & Leventhal, A. M. (2016, August) *Using bivariate latent difference score modeling to examine the relationship between conduct problems and cigarette use across the transition to high school.* Abstract submitted for paper presentation at the meeting for Society for Research on Nicotine & Tobacco in Florence, Italy.

Jacobucci, R., Zelinski, E. M. (2016, July). *Exploratory search for heterogeneity in change across older age using structural equation model trees..* Abstract submitted for paper presentation at the 21st IAGG World Congress of Gerontology and Geriatrics, San Francisco, California.

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**

    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, Eua 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.

Awards/Honors

Ruth L. Kirschstein National Research Service Award
Predoctoral trainee on the Multidisciplinary Research Training in Gerontology Grant at USC.
Three years of full funding.

2016 USC Psychology Department Travel Grant Award
Travel award to present at the 2016 Psychometric Society Meeting.

Amount: $500

2015 SMEP Conference Travel Award
Travel award to present at the 13th Annual Society of Multivariate Experimental Psychology Graduate Student Conference.
Amount: $1500

2015 ISIR Conference Travel Award
Travel award to present at the annual meeting of the International Society for Intelligence Research.
Amount: $1500

2014 SMEP Workshop Travel Award
Travel award to attend the 2014 APA Advanced Training Institutes on Structural Equation Modeling in Longitudinal Research and Exploratory Data Mining in Behavioral Research.
Amount: $1000

2014 APA Science Directorate Travel Award
Travel award to attend the 2014 APA Advanced Training Institutes on Structural Equation Modeling in Longitudinal Research and Exploratory Data Mining in Behavioral Research.
Amount: $500

Intercollegiate Academics Fund Travel Award, UNI, Fall 2012
Award allocated to promote and support the presentation of research at an academic conference.
Amount: $650

Graduate Student Opportunity Fund For Travel, UNI, Fall 2012
Award to support travel for graduate students presenting at an academic conference.
Amount: $250

College of Social and Behavioral Sciences Graduate Research Award, UNI, Fall 2012
Award allocated for the purchase of expenses related to thesis research.
Amount: $500

Graduate College Tuition Scholarship, UNI, Fall 2012
Scholarship based on academic performance.

Academic All-American, Golf, 2009, 2010
An award given out by the Golf Coaches Association of America based on academic and athletic performance.

Teaching Experience

- **Workshops**

  Exploratory Data Mining via SEARCH Strategies
  8/15/2016-8/19/2016, University of Michigan, Ann Arbor, MI.
  Role: Lecturer and lab instructor.
  Lecture Topic: Structural Equation Model Trees
  Lab Topics: R, Regression, Clustering, Factor Analysis, Decision Trees & Extensions, SEM Trees.

  Big Data: Exploratory Data Mining in Behavioral Research
  APA Advanced Training Institutes. 6/6/2016-6/10/2016, Arizona State University, Tempe, AZ
  Role: Lecturer and lab instructor.
  Lecture Topic: Multivariate Decision Tree Methods
  Lab Topics: Decision Trees, Random Forests, Boosting, & SEM Trees.

  Structural Equation Modeling in Longitudinal Research
  APA Advanced Training Institutes. 6/6/2016-6/10/2016, Arizona State University, Tempe, AZ
  Role: Lab instructor.
  Lab Topics: Longitudinal Factor Analysis & Alternate Change Score Models.

  Exploratory Data Mining via SEARCH Strategies
  6/8/2015-6/12/2015, University of Michigan, Ann Arbor, MI
  Role: Lab instructor.
  Lab Topics: R, Regression, Clustering, Factor Analysis, Decision Trees & Extensions, SEM Trees.

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.
Lab Topics: Decision Trees & Extensions, SEM Trees, Heuristic Search Algorithms.

- **Lecturing**

  Exploratory Factor Analysis, Multivariate Analysis of Behavioral Data, Fall 2016, USC

  The application of SEM Trees in Project TALENT, Big Data: Exploratory Data Mining in Behavioral Research Workshop, Summer 2014, USC.

  Graphing in R, Graduate Consultation and Computer Center Lecture Series, Spring 2014, USC.

  Item Factor Analysis, Graduate Consultation and Computer Center Lecture Series, Spring 2014, USC.

  Factor Indeterminacy, Workshop in Quantitative Methods – Mathematical Psychology, Spring 2014, USC

  Estimation in Factor Analysis, Workshop in Quantitative Methods – Mathematical Psychology, Spring 2014, USC

  Statistical Learning-Part 3: Advanced Algorithms, Graduate Consultation and Computer Center Lecture Series, Fall 2014, USC.

  Statistical Learning-Part 1: Preprocessing, Graduate Consultation and Computer Center Lecture Series, Fall 2014, USC.

  Exploratory Factor Analysis, Introduction to Psych Statistics, Spring 2012, UNI

- **Teaching Assistant**

  Fundamentals of Psychological Measurement, Fall 2014 (Graduate-Level: Dr. John J. McArdle, USC)
  History & Systems, Spring 2013 (Undergraduate-Level: Dr. Andrew R. Gilpin, UNI)
  Psychology of Music, Spring 2013 (Undergraduate-Level: Dr. Carolyn Hildebrandt, UNI)
  Advanced Graduate Statistics, Fall 2012 (Graduate-Level: Dr. Andrew R. Gilpin, UNI)
  Cognitive & Intellectual Assessment, Fall 2012 (Graduate-Level: Dr. John E. Williams, UNI)
  Honor's Introducton to Psychology, Fall 2012 (Undergraduate-Level: Dr. John E. Williams, UNI)
  Introduction to Psych Statistics, Spring 2012 (Undergraduate-Level: Dr. Andrew R. Gilpin, UNI)
  Memory & Language, Fall 2011 (Undergraduate-Level: Dr. Jack Yates, UNI)

Software

Jacobucci, R. (2016). regsem: Performs Regularization on Structural Equation Models (version 0.4.3) [Software]. Available from https://cran.r-project.org/web/packages/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

Professional Activities

- **Consulting**

  Team member of environmental-brain aging psychometrics working group for the Environmental Determinants of Cognitive Aging R01, Summer 2013 - Spring 2014, USC.

- **Advanced Training**

  Integrative Analysis of Longitudinal Studies of Aging and Dementia: Enhancing Replication and Reproducibility, GSA 2015 Pre-Conference Workshop, Orlando, FL

Structural Equation Modeling in Longitudinal Research, APA Advanced Training Institutes. Summer 2014, Arizona State University, Tempe, AZ

Big Data: Exploratory Data Mining in Behavioral Research, APA Advanced Training Institutes. Summer 2014, Arizona State University, Tempe, AZ

- **Reviewing**

  Multivariate Behavioral Research
  SMEP 2016 Graduate Student Conference
  21st IAGG World Congress of Gerontology and Geriatrics

- **Affiliations**

  Gerontological Society of America
  Psychometric Society

References

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John J. McArdle, Ph.D., University of Southern California
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