

## Jesse R. Pace, PhD

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### Education

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Ph.D.	Educational Psychology and Research Program: Research, Evaluation, Measurement, and Statistics Dissertation: The effect of non-normality on the cutescore operating function: estimation correctness in non-normal Monte Carlo simulations Department of Educational Psychology, University of Kansas	2019
Graduate Certificate	Applied Mathematics Area: Mathematical Statistics Department of Mathematics, University of Kansas	2019
Ed.S.	School Psychology Department of Educational Psychology, University of Kansas	2015
B.S	Anthropology Department of Anthropology, University of Utah	2012
B.S	Psychology Department of Psychology, University of Utah	2012

### Licenses/Accreditation

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Graduate Statistician (GStat): Accredited by the American Statistical Association	2020 – Present
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### Professional Positions

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Fall 2021 – Present	Assistant Research Professor <i>The Kansas University Center on Developmental Disabilities, U. Kansas</i>
Fall 2019 – Fall 2021	Quantitative Postdoctoral Researcher <i>The Kansas University Center on Developmental Disabilities, U. Kansas</i>
Summer 2019	Data Management Consultant <i>Kansas Reading Roadmap</i>
2017 – 2019	Graduate Research Assistant <i>Achievement and Assessment Institute, University of Kansas</i>
Summer 2018	Psychometric Intern <i>The National Board of Medical Examiners (NBME)</i>
2016 – Present	Research Fellow <i>Michigan Virtual Learning Research Institute (MVLRI)</i>
2012 – 2017	Graduate Research Assistant <i>Center on Online Learning and Students with Disabilities, U. of Kansas</i>

## Peer-reviewed Journal Publications

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- Shogren, K. A., **Pace, J. R.**, Wittenburg, D. C., Raley, S. K., Hicks, T. A., Rifenbark, G. G., Lane, K. L., & Anderson, M. H. (in press). Self-report and administrative data on disability and IEP status: Examining differences and impacts on intervention outcomes. *Journal of Disability Policy Studies*.
- Grabovsky, I., **Pace, J. R.**, Runyon, C. (in press). Extensions of the cut-score operation function: incorporating uncertainty in standard setting. *Applied Psychological Measurement*.
- Raley, S. K., Shogren, K. A., Rifenbark, G. G., Lane, K. L., **Pace, J. R.** (in press). The Impact of the Self-Determined Learning Model of Instruction on Student Self-Determination in Inclusive Classrooms. *Remedial and Special Education*.
- Shogren, K. A., Hicks, T. A., Raley, S. K., **Pace, J. R.**, Rifenbark, G. G., Lane, K. L. (in press). Student and Teacher Perceptions of Goal Attainment during Intervention with the Self-Determined Learning Model of Instruction. *Journal of Special Education*.
- Shogren, K. A., Raley, S. K., Hicks, T. A., Rifenbark, G. G., **Pace, J. R.**, Lane, K. L., & Quirk, C. (2021). Student perceptions of goal attainment in inclusive, general education classes: Impact of the Self-Determined Learning Model of Instruction. *Journal of Special Education*.
- Pace, J. R.**, Mellard, D.F. (2016) Reading achievement and reading efficacy changes for middle school students with disabilities through blended learning instruction. *Journal of Special Education Technology*, 31, 156-169.
- Reynolds, M.R., Hajovsky, D.B., **Pace, J.R.**, Niileksela, C.R. (2016). What does the Shipley-2 measure for children and adolescents? Integrated and conjoint confirmatory factor analysis with the WISC-IV. *Assessment*, 23, 23-41.

## Journal Articles Submitted or in Preparation

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- Pace, J. R.** (under review). Where do parameters come from? A tutorial on least-squares, maximum likelihood, and Bayesian estimation.
- Qian, X., **Pace, J.R.**, Hicks, T. A., Shogren, K. A., (manuscript in preparation). Correlates of Employment Goals in Young Adults with Autism: A Bayesian Approach.
- Pace, J.R., (manuscript in preparation). Using Natural Language Processing to Categorize Goals from Goal Attainment Scaling (GAS) Measures in Educational Research.

## Book Chapters

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- Sullivan, M., **Pace, J.**, Templin, J. (2019) Using *Mplus* to Estimate the Log-Linear Cognitive Diagnosis Model. In von Davier, M. & Lee, Y. (Eds.), *Handbook of Psychometric Models for Cognitive Diagnosis: Models and Model Extensions, Applications, Software Packages*. New York, NY: Springer.

## Conference Presentations

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Hicks, T., **Pace, J.**, Qian, Xueqin. (2020). Bayesian Model Averaging: A Forward Paradigm Shift. Paper to be presented at the Modern Modeling Methods Conference, June 2020, Mansfield, CT. (conference cancelled)

Zimmerman, K. N., **Pace, J.**, Hicks, T., & Cunningham, J. E. (2020, February). A Comparison of Methods to Measure Reliability of Observational Data in Single Case Research Designs. Poster presented at the Conference on Research Innovations in Early Intervention. San Diego, CA.

**Pace, J.R.**, Grabovsky, I. (2019). *Minimizing classification errors when the true cut score is not known, with software for standard setting*. Presentation given at the 2019 annual meeting of the National Council on Measurement in Education, Toronto, ON, Canada.

**Pace, J. R.**, Carter, R. A., Rice, M. F., Poggio, J. P. (April 2017). *Matrix-sampling: An effective and efficient approach to assess non-cognitive outcomes*. Presentation given at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.

**Pace, J. R.**, Crouse, T.M., Hall, T. E. (September 2016). *Educational Principles & Practices to Address Online Learning Environments*. Presentation given at the joint conference of The National Association of State Directors of Special Education (NASDSE) and The Council of Administrators of Special Education (CASE), Milwaukee, WI.

**Pace, J.R.**, Reynolds, M.R. (August 2015). *Confirmatory factor analysis and multiple regression analysis with the Shipley-2, WASI, and WIAT-II*. Poster presented at the 123<sup>rd</sup> Annual Convention of The American Psychological Association, Toronto, Canada.

### **Grant Writing Experience**

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Accelerating Pandemic Recovery: Intensifying Transition Supports to Enhance Outcomes through Self-Determination Intervention in Arkansas. Principal Investigator: Karrie A. Shogren, Institute of Education Sciences(IES), Measurement. Role: Contributing Statistician.

Enhancing the Accessibility and Sensitivity of Self-Determination Assessment for Transition-Age Youth via Virtual Reality. Principal Investigator: Karrie A. Shogren, Institute of Education Sciences(IES), Measurement. Role: Contributing Statistician.

An Examination of Cultural and Ecological Factors That Facilitate Self-Determination of Black Students With High-Incidence Disabilities in Transition. Principal Investigator: LaRon Scott, Institute of Education Sciences(IES), Exploration. Role: Primary Statistician/Key Personnel.

Factors Contributing to Positive Outcomes of Students with Significant Cognitive Disability in School-wide Positive Behavioral Interventions and Supports. Principal Investigator: Jennifer Kurth. Institute of Education Sciences(IES), Exploration. Role: Contributing Statistician/Key Personnel.

### **Funded Projects**

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Rice, M. R., **Pace, J.R.**, Mellard, D.M., & Carter, R.C. (2016). Revising online teaching, course, and program standards to better include students with disabilities. Michigan Virtual Learning Research Institution (MVLRI). Role: Co-Principal Investigator. \$12,000

### **Technical Reports and White Papers**

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- Perie, M., **J.R. Pace**. (2018) Section 2: Comparability Studies. In Roeber, E., Olson, J., & Topol, B. (Ed.), *Feasibility of the Use of the ACT and SAT in Lieu of Florida Statewide Assessments: Volume 1: Final Report*. Assessment Solutions Group.
- Perie, M., **J.R. Pace**. (2018) Section 4: Accountability Studies. In Roeber, E., Olson, J., & Topol, B. (Ed.), *Feasibility of the Use of the ACT and SAT in Lieu of Florida Statewide Assessments: Volume 1: Final Report*. Assessment Solutions Group.
- Pace, J.R.**, Mellard, D.F., Smith, S.J., & East, T. (2017) *Report on the Online Teaching Standards and Teacher Certification Workgroup for Students with Disabilities*. Lawrence, KS: Center on Online Learning and Students with Disabilities, University of Kansas.
- Rice, M.F., **Pace, J.R.**, Mellard, D.F., Carter, R.A. (2016). *iNACOL Standards – Recommendations for Revision to Include Students with Disabilities: Report # 1*. Lansing, MI: Michigan Virtual Learning Research Institute (MVLRI)
- Pace, J.R.**, Rice, M.F., Mellard, D.F., Carter, R.A. (2016). *iNACOL National Standards for Quality Online Programs – Recommendations for Revision to Include Students with Disabilities: Report # 2*. Lansing, MI: Michigan Virtual Learning Research Institute (MVLRI)
- Rice, M.F., **Pace, J.R.**, Mellard, D.F., Carter, R.A. (2016). *iNACOL National Standards for Quality Online Courses – Recommendations for Revision to Include Students with Disabilities: Report # 3*. Lansing, MI: Michigan Virtual Learning Research Institute (MVLRI)
- Rice, M.F., **Pace, J.R.**, Mellard, D.F. (2016). *iNACOL National Standards for Quality Online Teachers – Recommendations for Revision to Include Students with Disabilities: Report # 4*. Lansing, MI: Michigan Virtual Learning Research Institute (MVLRI)
- Mellard, D. F., **Pace, J.R.** (2015). *6th graders' English/language arts outcomes in a blended learning environment*. Lawrence, KS: Center on Online Learning and Students with Disabilities, University of Kansas.

### **Academic Teaching Experience and Teaching Assistant Experience**

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- Guest Lecturer on the topic of Logistic Regression<sup>1</sup>  
 Lecture taught November 27<sup>th</sup>, 2019 to General Linear Models (EPSY 810)  
 Semester: Fall 2019  
 University of Kansas: Department of Educational Psychology
- Lecturer on the Topic of Statistical Programming in R<sup>1</sup>  
 Lectures taught October 24<sup>th</sup>, October 31<sup>st</sup>, and November 7<sup>th</sup>, 2019  
 Semester: Fall 2019  
 University of Kansas: Department of Educational Psychology
- Graduate Teaching Assistant: Multivariate Statistics (EPSY 905):  
 Semester: Spring 2019  
 University of Kansas: Department of Educational Psychology
- Lecture on Linear Algebra, supplemental to course lectures on the subject<sup>1</sup>

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<sup>1</sup> Taught at request of Dr. John Poggio: jpoggio@ku.edu

Lecture taught February 20<sup>th</sup>, 2019  
Semester: Spring 2019  
University of Kansas: Department of Educational Psychology

Instructor: Laboratory for Introduction to Statistical Analysis (EPSY 711):  
Semesters: Spring 2017, Summer 2017, Fall 2017, and Spring 2018  
University of Kansas: Department of Educational Psychology

Graduate Teaching Assistant: Introduction to Statistical Analysis (EPSY 710)  
Semester: Fall 2016  
University of Kansas: Department of Educational Psychology

### **Clinical Experience**

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2015 – 2016	Neuropsychology Practicum Student <i>Alzheimer's Disease Center, Fairway, KS</i>
2014 – 2015	School Psychology Practicum Student <i>Topeka Public Schools, Topeka, KS</i>
2013 – 2014	Graduate Student Clinician <i>U. of Kansas Center for Psychoeducational Services, Lawrence, KS</i>

### **Professional Memberships**

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2017 – Present	American Statistical Association, Student Member
2016 – Present	National Council on Measurement in Education, Student Member

### **Honors and Awards**

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2016 – 2018	University of Kansas School of Education Recognition Scholarship
2015 – 2016	University of Kansas School of Education Merit Scholarship
2013 – 2015	University of Kansas School of Education Scholarship
2012 – 2013	University of Kansas School of Education Recruitment Scholarship
2011 – 2012	University of Utah Dean's List
2006 – 2007	Lewis Kingsley Foundation Scholarship

### **Academic Service**

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2016 – Present	Ad-hoc Reviewer: Journal of Special Education Technology
2016	Reviewer of Conference Submissions: Annual meeting of National Council on Measurement in Education