

Dr. Jennifer Brussow

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IN BRIEF

Data-driven psychometrician, researcher, and R programmer. Interests include predictive modeling, Differential Item Functioning, Item Response Theory, and hierarchical models.

RECENT WORK EXPERIENCE

Ascend Learning
Psychometrician
MAY 2017 – PRESENT
In this position, I use R, SQL, and SAS to construct predictive models; conduct research to inform publications regarding our assessments' validity; and provide psychometric consultation to clients and business units. A variety of statistical approaches are useful for this position, including item response theory, classical test theory, regression, k-NN, decision trees, and random forests.

University of Kansas Center for Educational Testing and Evaluation
Psychometrician Assistant
JANUARY 2016 – MAY 2017
I assisted with all aspects of the operational testing program. Major programming projects included writing R and SPSS scripts to conduct statistical analyses, automate and expand quality control checks on the data, and select relevant student profiles for standard setting. I also wrote and edited technical manuals, whitepapers, and internal documentation.

University of Kansas Center for Research on Learning
Assistant Researcher
FEBRUARY 2013 – JANUARY 2016
My role involved leading evaluations of K-12 educational interventions. I worked with stakeholders to create evaluation plans, traveled to observe and evaluate professional development sessions, and worked with stakeholders to collect the necessary data. Once the necessary data were collected, I used Excel, SPSS, and R to clean and analyze the data, then create evaluation reports. These reports were presented to stakeholders at the local, state, and federal levels.

University of Kansas Center for Research on Learning
Program Assistant
JUNE 2012 – FEBRUARY 2013
As a program assistant, I cleaned and analyzed data, maintained spreadsheets, and created summary reports for federally funded educational interventions. I also conducted qualitative analyses and summarized those findings.

University of Kansas Center for Service Learning
Program Assistant
FEBRUARY 2011 – FEBRUARY 2013

EDUCATION

2014 – 2018 **Doctor of Philosophy**
GRADUATED WITH HONORS
Research, Evaluation, Measurement, and Statistics
University of Kansas

2009 – 2012 **Master of Arts**
English Language Studies
University of Kansas

2005 – 2009 **Bachelor of Arts**
SUMMA CUM LAUDE
English, Germanic Languages and Literature
University of Kansas

COMPUTER SKILLS

EXPERT	R Microsoft Excel
INTERMEDIATE	SQL, Git, RStan, SPSS, Mplus, Tableau Microsoft Windows
BEGINNER	SAS, HTML, L ^A T _E X, Python Fortran, WINSTEPS, WinBUGS

SELECTED PUBLICATIONS

SOFTWARE

Brussow, J.A. (2017). inspectr: Perform basic checks of dataframes. R package version 1.0.0
<https://CRAN.R-project.org/package=inspectr>

PEER-REVIEWED ARTICLES

Brussow, J.A., Roberts, K. Scaruto, M., Sommer, S., & Mills, C. (2019). Concept-based curricula: A national study of critical concepts. *Nurse Educator*, 44(1). doi: 10.1097/NNE.0000000000000515

Brussow, J.A. (2018). Adequate Yearly Progress (AYP). In *The Sage Encyclopedia of Educational Research, Measurement, and Evaluation*. New York: SAGE. p. 45-47. doi: 10.4135/9781506326139.n22

Brussow, J.A. (2018). Consequential validity evidence. In *The Sage Encyclopedia of Educational Research, Measurement, and Evaluation*. New York: SAGE. p. 372-374. doi: 10.4135/9781506326139.n142

Brussow, J.A. & Dunham, M. (2018). Students' mid-program content area performance as a predictor of end-of-program NCLEX readiness. *Nurse Educator*, 43(5). doi: 10.1097/NNE.0000000000000499

REFERENCES

Dr. William Skorupski

POSITION Director of Next Generation Assessments
EMPLOYER ACT

EMAIL William.Skorupski@act.org

PHONE +1 (201) 424-4734

Dr. Amy Gaumer Erickson

POSITION Associate Research Professor
EMPLOYER KU Center for Research on Learning

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PHONE +1 (785) 864-0517

Derek Webb

POSITION Business Intelligence Manager
EMPLOYER Ascend Learning

EMAIL derek.webb@ascendlearning.com

PHONE +1 (816) 686-4835

Additional references available on request

SELECTED PUBLICATIONS, CONT.

TECHNICAL REPORTS

Brussow, J.A. & Sinha, S. (2018). *Predictive models: Development and applications*. Leawood, KS: Ascend Learning.

Brussow, J.A. & Davis, C. (2018). *CCMA prep usage efficacy study*. Leawood, KS: National Healthcareer Association.

Brussow, J.A. (2017). *Lag times and score increases between multiple test attempts*. Leawood, KS: Ascend Learning.

Brussow, J.A. & Mills, C. (2017). *Outcome scores: Modeling research and reporting guidelines*. Leawood, KS: Assessment Technologies Institute.

Nash, B., Clark, A., Karvonen, M., & **Brussow, J.A.** (2016). *2016 standard setting: Science* (Technical Report No. 16-03). Lawrence, KS: University of Kansas, Center for Educational Testing and Evaluation.

Brussow, J.A., Clark, A., & Karvonen, M. (2016). *Summary of results from the Dynamic Learning Maps® field test teacher surveys* (Technical Report No. 16-04). Lawrence, KS: University of Kansas, Achievement and Assessment Institute.

Gaumer Erickson, A.S., **Brussow, J.A.**, & Anderson, S. (2015). *Kansas co-teaching initiative annual report* (Technical Report No. 16-04). Topeka, KS: Kansas State Department of Education.