

M. Brooke Robertshaw, PhD

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Skills

- Ability to work in different content areas in the social and behavioral sciences disciplines.
- Expertise with interacting with field experts and matching, and deploying, methodologies that match the question(s) being explored, the populations being worked with, and the context within which the research is being completed
- Expertise in running simple and complex quantitative analyses to answer research questions
- Expertise in designing quantitative, qualitative, and mix methods studies to answer research, assessment, and evaluation questions.
- Ability to communicate the process and findings of statistical analyses to a diverse array of audiences
- Experience working with senior administrators in advising on strategic planning
- Experience in writing reports of findings from research projects that can be used to take concrete actions within an agency or other office unit.
- Managing large complex data sources that include both qualitative and quantitative data
- Training in use of social science methodologies and technology tools
- Learning new content material, statistical and other methodological skills as needed and required.
- Working independently on projects and duties as assigned

Education

2013: Doctor of Philosophy, Instructional Technology & Learning Sciences, Utah State University, Logan, UT USA

Dissertation research: Use of mixed methods to develop close-ended answers to assess in-service K-12 teachers' technological pedagogical content knowledge (TPACK)

1998: Masters of Education, Computer Based Education, University of Georgia, Athens, GA, USA

1995: Bachelor of Arts, Early Childhood Education, Oglethorpe University, Atlanta, GA, USA

Relevant Professional Experience

November 2020-October 2021

Institutional Research Analyst

Ohio Wesleyan University, Delaware, OH, USA

Responsibilities:

- Filling out data surveys, including the Integrated Postsecondary Education System (IPEDS) for Secondary Education
- Running SQL queries to fulfill data requests
- Analyzing data for statistical analyses projects
- Consulting on survey design, development and deployment

- Coordinating with analysts across the university to gather data from an array of data sources as needed
- Working independently on projects
- Completing other duties as requested

December 2015 – June 2020

Assessment Librarian & Assistant Professor

Oregon State University Libraries and Press, Oregon State University, Corvallis, OR, USA

Responsibilities:

- Working as a member of the Library Administration Management and Planning team to help make library wide administrative decisions.
- Conducting and consulting on assessment in informal and formal learning environments
- Collecting and managing longitudinal data for the annual Integrated Postsecondary Education Data System (IPEDS) and Association for College and Research Libraries (ACRL) data surveys
- Designing (including validating), and deploying library satisfaction surveys; analyzing data from and writing reports about library satisfaction surveys;
- Connecting student success data to library services data to help to understand the library impact on pertinent student outcomes
- Understanding and how data collected across the library fits with library and university strategic goals in order to be able to best answer assessment questions from library and university administration
- Consulting with students, faculty and staff on quantitative methods in social and behavioral sciences
- Conducting and publishing research

January 2014-November 2015

Assessment & Data Analyst

Office of Institutional Assessment, Purdue University, West Lafayette, IN, USA

Responsibilities:

- Analyzing quantitative student data to understand how different student success initiatives impact student outcomes
- Conducting course level assessments - utilizing quantitative, qualitative and mixed methodologies- to help faculty understand impacts of different course interventions
- Working with faculty to understand the impact of learning space type on their teaching and student learning
- Conducting assessments of the impact of different learning technologies on student performance, including working with Purdue's learning technology unit to assess a university wide pilot of the Canvas Learning Management System
- Consulting with faculty and staff on quantitative methods in the social and behavioral sciences.

July 2011-June 2012

Intern

Office of Methodological and Data Services, College of Education and Human Services, Utah State University, Logan, UT, USA

Responsibilities

- Meeting with faculty and graduate students in Utah State University's College of Education to help to determine appropriate statistical methods for research projects including grant proposals, grants in progress, dissertations, and masters theses
- Instructing faculty and students in statistical methods and the use of the SPSS and R statistical packages
- Long-term mentoring graduate students in statistical methods and the use of SPSS.

January 2007 – June 2011

Research Associate, Digital Libraries Go to School Project

Department of Instructional Technology & Learning Sciences, College of Education and Human Services, Utah State University, Logan, UT, USA

Responsibilities

- Worked as a part of a research group to conduct evaluation research on a K-12 teacher technology professional development workshop that was designed to help teachers incorporate open educational resources and problem-based learning into their classrooms
- As a part of this team I collaborated on research design, instrument design, implementation, analysis and reporting of findings on our research.
- Responsible for teaching technology used in our professional development workshops to pre-service teachers in the College of Education.
- Conducting solo research on the technological pedagogical content knowledge framework prior to my dissertation and for my dissertation.

Statistics Training and Knowledge

Statistics Training

- Graduate and undergraduate courses in statistics
- One year internship in the Office of Methodological and Data Services for Utah State University's College of Education and Human Resources
- Five years as a research assistant in Instructional Technology and Learning Sciences & Science Education at Utah State University

Statistical Software Used

- SPSS
- R Stats Package
- G*Power
- Optimal Design

Database & Spreadsheet Software Used

- Excel
- COGNOS

- SQL Query Language

Other Research Paradigms

Qualitative Research

- Graduate level survey course
- Training in qualitative data gathering, data analysis, and documenting qualitative studies during research assistantships. Included gathering, analyzing and documenting studies using focus group, observation, interview and content analysis data.
- Was mentored for dissertation, which used qualitative, quantitative and mixed-methodologies. Mentoring included exploration of different epistemologies.

Mixed Methods Research

- Training during research assistantships.
- Use of mixed-methods in dissertation. Data was ‘qualitized’ and ‘quantified’ for analysis and writing purposes.

Relevant Journal Publications

Robertshaw, M. B. & Asher, A. (2019, Summer). Unethical Numbers? A meta-analysis of library impact studies. *Library Trends*.

McDavid, M.L., Parker, L., Burgess, W., Robertshaw, M.B., Doan, T. (2018). The combined effect of learning space and faculty self-efficacy to use student centered practices on teaching experience and student engagement. *Journal of Learning Spaces*, 7(1).

Durán, L., Innocenti, M.R., Robertshaw, M.B., Shea, K. (2013). Exploring the fidelity of the bilingual early language assessment (BELA): A pilot exploration to move beyond face validity. *NHSA Dialog: A Research-to-Practice Journal for the Early Childhood Field*.

*Denotes contribution was as quantitative methodologist.

Relevant Technical Reports

Robertshaw, M.B. (2019, May). *A pilot to examine the financial impacts on students of the 1-week and 1-day laptop lending program at Oregon State University Libraries and Press (OSULP)*. Corvallis, OR, USA: Oregon State University.

Robertshaw, M.B. (2017, January). *Oregon State University Libraries & Press workplace climate survey results*. Corvallis, OR, USA: Oregon State University.

Robertshaw, M. B. (2015, May). *Canvas pilot assessment*. West Lafayette, IN, USA: Purdue University.

Robertshaw, M.B. (2013). *Eugene Free Mobile Medical Clinic, Growing*. Eugene, OR, USA: Eugene Free Mobile Medical Clinic.

Robertshaw, M.B. (2013) *Patient flow*. Eugene, OR, USA: Eugene Free Mobile Medical Clinic.

Relevant Invited Presentations

Robertshaw, M.B. & Dello Stritto, M.E. (2018, October). *Effect Sizes*. Research in Action Podcast, Oregon State University E-Campus Research Team.

Robertshaw, M.B. (2017, May). *Shiny Happy Assessment*. Presentation at the Information Literacy Advisory Group of Oregon Annual Meeting. Vancouver, WA.

Relevant International Conference Presentations

Robertshaw, M. B. & Asher, A. (2019, June). *Unethical Numbers? A meta-analysis of library*

impact studies. Paper presented at the Evidence Based Library Information & Practice Conference, Glasgow, Scotland.

Goben, A., Briney, K., & Robertshaw, M.B. (2018, June). *Libraries and learning analytics: Identifying the issues*. Program to be presented at the American Library Association Annual Conference, New Orleans, LA, USA.

Robertshaw, M.B., & Gillam, R.B. (2010, March). *Examining the validity of the TPACK framework from the ground up: Viewing technology integration through teachers' eyes*. Paper presented at the Society for Information Technology and Teacher Education Conference, San Diego, CA.

References

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