

M. Brooke Robertshaw, PhD

Email: brooke.robertshaw@gmail.com

Mobile: 541-870-6136

Web: brookerobertshaw.com

Skill Summary

- 10+ years conducting program and product evaluation research
- 10+ years utilizing surveys to collect feedback on participant / customer experience to improve products and programs
- 10+ years experience in project management for program evaluation studies
- 7 years of experience translating technical findings to non-technical audiences
- 7 years of experience making recommendations for program / product changes based on customer feedback
- Knowledge of data privacy ethics and the ethics of conducting evaluation studies with human subjects
- Expertise in quantitative, mixed-methods and survey research in educational research.
- Experience with instrument design for quantitative and mixed-methods research designs.
- Experience teaching and mentoring others in the use of methods for conducting program and product evaluation research.
- 20+ years as a volunteer, and staff member for, organizations advocating for culturally diverse and oppressed populations in the United States and abroad.
- Expertise in working with a diverse array of people in program and product evaluation research contexts, as well as in teaching and volunteer contexts.
- Proven ability to learn new methodologies, content, and contexts quickly and efficiently.

Professional Experience

Program Evaluation and Assessment

- Utilized best practices for program evaluation at Utah State University, Purdue University, Oregon State University, Ohio Wesleyan University, and non-profits and local governmental agencies.
- Use of simple and complex logic models in planning evaluation and assessment projects.
- Application of survey, qualitative, quantitative, and mixed-methods research methods in evaluation and assessment projects.
- Report of findings of assessment and evaluation to a wide array of audiences.
- Facilitation of meetings of stakeholders and project staff during the planning, deployment, and debriefing stages of evaluation and assessment projects.
- Creation of recommended action items for assessment and evaluation projects at Utah State University, Purdue University, and for non-profits.

Major accomplishments in program evaluation and assessment

- As a part of the Outreach Committee at Oregon State University Libraries, worked with other members to develop, and implement, program evaluation plans beyond simple count of attendance and basic surveys.

- Helped a non-profit free medical clinic to assess services provided and areas of improvement for services provided. This work included journey maps of patients' paths through the clinic in order to increase clinic efficiency.
- As a part of a team of Oregon State University Library Faculty, evaluated the efficacy of library communications about reasons for academic journal inflation.
- Designed and deployed the user evaluation of the Canvas Learning Management System at Purdue University. This evaluation included focus groups, interviews, and surveys.

Project management

- Management of complex research and evaluation projects and event planning and production at Utah State University, Purdue University, Oregon State University, Ohio Wesleyan University, and non-profits and local governmental agencies
- Use of project management software including Asana and Basecamp for managing and communicating within complex research and evaluation projects and event planning.
- Use of Microsoft 365, Canva, Apple Pages and Numbers, Google Office Suite for the development of documents for managing projects
- Management of timelines for projects utilizing feedback from stakeholders, project staff, and supervisors.
- Prioritized project tasks based on knowledge of how research projects and event planning should be executed, as well as feedback from project staff members, other stakeholders, and supervisors.
- Facilitated meetings of project staff personnel and stakeholders in order to communicate project progression and to solve problems arising in project completion.

Major accomplishments in project management

- Managed a team of assessment personnel in the implementation of 3 tests of critical thinking to incoming freshmen at Purdue University.
- Managed a complex assessment of the user experience of the Canvas Learning management system at Purdue University.
- Managed the design, implementation and analysis of focus groups with faculty and graduate students at Oregon State University about the problem of academic journal cost inflation that included Library faculty and administration as facilitators of focus groups.
- With participation and feedback from all library staff and faculty, managed the design, deployment, and write up of a library satisfaction survey that was delivered to the Oregon State University Community.

Quantitative research and statistical analysis in the social and behavioral sciences

- Use of a wide array of statistical analyses including, but not limited to: effect size, descriptives, cross-tabs, non-parametrics, anova, ancova, factor analyses, cluster analyses, meta-analysis, regression, correlation, generalized estimating equation in academic research, evaluation and assessment work at Utah State University, Purdue University, Oregon State University, Ohio Wesleyan University, and non-profits and local governmental agencies
- Implementation of classical test theory principles and practices in the design and development of surveys and tests of knowledge
- Implementation of quasi-experimental, longitudinal, correlational, descriptive and other quantitative designs for academic research, evaluation and assessment work.
- Report on quantitative research findings in technical reports, presentations, and peer reviewed publications for a wide array of audiences
- Teach and mentor graduate students, faculty and staff in use of statistics and quantitative research methods

Major accomplishments in quantitative research and statistical analysis in the social and

behavioral sciences

- First author and co-author of several peer reviewed publications, and presentations utilizing quantitative methods and statistical analysis while at Utah State University, Purdue University, and Oregon State University
- Utilized descriptives and factor analysis in a report on the piloting of 3 tests of critical thinking at Purdue University. Findings helped to inform senior administration's decision of which test to use long-term to benchmark changes in critical thinking skills of students at Purdue.
- Use of anova, descriptives and effect size in an analysis of the cost savings of a laptop loan program for students. This report was used to make a case for continuing the program.
- Consultation on, mentoring, and teaching graduate students and faculty at Oregon State University.

Survey research

- Implement the entire survey cycle (design, develop, deploy, analyze and write up results), and parts of the survey cycle, for simple and complex surveys at Utah State University, Purdue University, Oregon State University, Ohio Wesleyan University, and non-profits and local governmental agencies
- Analyze survey research findings using statistics (including but not limited to: effect size, descriptives, cross tabs, anova, manova, ancova, factor analysis, generalized estimating equation, non-parametrics, and regressions) for simple and complex surveys
- Analyze survey research findings using qualitative analysis utilizing content analysis, thematic analysis, and grounded theory
- Report on survey research findings in technical reports, presentations, and peer reviewed publications for a wide array of audiences
- Teach and mentor graduate students principles of survey research

Major accomplishments in survey research design

- Implement the entire survey cycle to assess the user experience as a part of a pilot of the Canvas Learning Management System at Purdue University. Findings helped to inform university's decision about whether to move to Canvas or stay with Blackboard Learn.
- Adapted, and then deployed, analyzed, wrote results of a workplace climate survey for Oregon State University's Library. Findings led to substantial changes in how top administration in the library communicated with faculty and staff.
- Deployed, analyzed and wrote results for surveys to faculty, staff, and students about Ohio Wesleyan University's initial response to the COVID pandemic. Findings informed senior leadership about potential changes to on-going response to the pandemic during early 2021

Qualitative Research in the social and behavioral sciences

- Experience in conducting qualitative research using positivist epistemologies
- Expertise with developing interview and focus group protocols for assessment, evaluation, and research purposes.
- Expertise in conducting interviews and focus groups for assessment, evaluation and research purposes.
- Experience in conducting content analysis
- Experience in analyzing qualitative data using grounded theory and thematic analysis

Major accomplishments in qualitative research

- In my two-phase dissertation, phase one consisted of focus groups and interviews utilizing a grounded theory approach for analysis.
- Conducted a qualitative study at Purdue University seeking to understand how instructors utilized different types of learning spaces.
- Conducted a qualitative study, leading to publication of an article, on how Agricultural Science

researchers used library resources.

Teaching

- Design, deliver, and assess 1-3 hour workshops on statistics, quantitative methods, SPSS, assessment and logic models at Oregon State University
- Design, deliver and assess workshops on sexism, being an ally for the Transgender community and peace at Utah State University and as a community organizer in Eugene, Oregon, USA
- Mentor faculty, staff, undergraduate and graduate students in the use of statistics, quantitative methods, mixed-methods, SPSS and logic models at Utah State University, Purdue University, Oregon State University, and Ohio Wesleyan University
- Design, deliver and assess workshops on problem-based learning at Utah State University, Purdue University.

Major accomplishments in teaching

- Designed and taught a quantitative methods course for PhD and Masters students for the College of Education at Oregon State University
- Co-designed, developed and taught a 3-day workshop on the use of problem-based learning in Elementary and Secondary School at Alqadsia Mixed Elementary and Secondary School, Safut, Amman, Jordan
- Mentored PhD students in the use of quantitative methods for their dissertations at Utah State University, Oregon State University, and in Columbus, OH

Equity, Diversity and Inclusion

- 20+ years of involvement in volunteer, and paid, work related to advocacy for culturally diverse and oppressed populations throughout the United States
- Understanding of culturally relevant practices in teaching, program evaluation, and social science research
- Development and deployment of workshops to educate others about sexism, how to be an ally for the transgender community, how to be an anti-racist white ally
- Experience working on cross-cultural, multi-lingual teams
- Participation in a multitude of training workshops related to being an ally to culturally diverse and oppressed populations throughout the United States
- 30+ years of self-study on issues of equity, diversity and inclusion
- Scholarship on bias in social science quantitative research.

Major accomplishments in equity, diversity and inclusion

- Delivery of four talks to national organizations on how quantitative research in social and behavioral sciences research have been used to further systems of oppression (2019-2021)
- Volunteer with organizations that serve food and housing insecure, and prison populations in Columbus, OH (2021-present)
- Development and deployment of the first public series of workshops about how to be an ally to the transgender community at Utah State University (2009)
- Staff member of, and volunteer with, non-profits in the peace and human justice community in Eugene, Oregon (2000-2006)

Work History

November 2020 – October 2021
Institutional Research Analyst

Ohio Wesleyan University, Delaware, OH, USA

December 2015 – June 2020

Assistant Professor & Assessment Librarian

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

January 2014-November 2015

Assessment & Data Analyst

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

July 2011-June 2012

Intern

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

Education

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)

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

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

Current Volunteer Work

- Work with the Outreach Ministry of Vineyard Columbus Church serving food insecure and housing insecure populations in Columbus, OH, and occasionally consulting on program assessment related matters.
- Work with the Prison Ministry of Vineyard Columbus Church tutoring individuals incarcerated in the Franklin Co (OH) jail in knowledge to earn a high school diploma
- Volunteer with the Alpha Program of Vineyard Columbus Church, as a group leader and program assessment

Relevant Journal Publications

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

Robertshaw, M. B., Willi Hooper, M., & Goergen-Doll, K. (2017). Finding the silver lining... in the serials budget crisis. *Against the Grain*.

Robertshaw, M.B. & Campbell, T. (2013). *Constructing arguments: Investigating pre-service science teachers' argumentation skills in a socio-scientific context*. *Science Education International*.

Relevant Invited Presentations

Robertshaw, M.B. (2021, April). *Finding my voice: A quant explores breaking down white colonial power structures: An homage to Ramona Quimby*. Presentation to Vermont Department of Rehabilitation, as a part of Mirna Valerio's Introduction to Social Justice and Antiracism Workshop.

Robertshaw, M.B. (2020, January). *What is quantitative data good for? Throwing great big noisy fuses about white colonial power structures. *An ode to Ramona Quimby*. Webinar for ACRL-Oregon.

Robertshaw, M.B. (2019, April). *Emancipating quantitative methods from the status- white, colonial, patriarchal, heteronormative, racist, classist – quo*. Webinar for Psi Chi: The honors society for psychology.

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. & Awadh, M. (2015, February) *Inquiry based learning and science education*. Presentation to science faculty at Al Qadesia Secondary Mixed School, Safut, Al Balqa Governate, Jordan.

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. (2015, January). *Analysis of CAAP, CLA+ & CCTST results data*. West Lafayette, IN, USA: Purdue University.

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

Relevant International Conference Presentations

Robertshaw, M. B. & Asher, A. (2018, December). *Unethical Numbers? A meta-analysis of library impact studies*. Paper presented at the Library Assessment Conference, Houston, TX, USA.

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. & Campbell, T. (2012, April). *Talking science in the wild: Investigating pre-service science educators' argumentation skills in a socio-scientific context*. Paper presented at the American Educational Research Association Conference, Vancouver, BC, Canada.

Analytical and Database Software Used

Analytical Software

- SPSS
- R Stats Package
- G*Power
- Optimal Design
- Dedoose
- Atlas TI
- Qualtrics
- Survey Monkey
- Google Forms
- Power BI

Database and Spreadsheet Software Used

- Excel
- COGNOS
- Alma Analytics
- Illiad Analytics
- Degree Audit
- PowerCampus, programming in basic SQL