

M. Brooke Robertshaw, PhD

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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

Professional Experience

December 2015 - Present

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

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

Journal Publications

Robertshaw, M. B. & Asher, A. (2019, Fall). Unethical Numbers? A meta-analysis of library impact studies. *Library Trends*. [Note: This is due to be published soon, it has been accepted, and final copy editing done.]

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).

- Robertshaw, M. B., Willi Hooper, M., & Goergen-Doll, K. (2017). Finding the silver lining... in the serials budget crisis. *Against the Grain*.
- Rempel, H. & Robertshaw, M.B. (2017). Supporting the Research Practices of Agricultural Scientists: Oregon State University's Ithaka Report. *Journal of Agricultural & Food Information*
- Stonebraker, I., Robertshaw, M.B., Moss, J.D. (2016). *Student See Versus Student Do: Comparing Student Performance in Two Types of Online Tutorials*. Tech Trends.
- *Towns, M., Harwood, C., Robertshaw, M.B., Fish, J., & O'Shea, K. (2015). *The digital pipetting badge: A method to improve student hands-on laboratory skills*. *The Journal of Chemical Education*.
- Stonebraker, I., Robertshaw, M.B., Kirkwood, H.P., & Dugan, M. (2015). Bring your own device into the information literacy classroom. *Indiana Libraries*.
- Robertshaw, M.B. & Campbell, T. (2013). Constructing arguments: Investigating pre-service science teachers' argumentation skills in a socio-scientific context. *Science Education International*.
- *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*.
- *Durán, L, Robertshaw, M.B. & Gorman, B. (2013). Implementing 'Read it again!' with bilingual preschoolers in Migrant Head Start. *Journal of Early Intervention*.
- Walker, A., Recker M., Robertshaw, M.B., Olsen, J., Leary, H. (2011). Integrating technology and problem-based learning: A mixed methods study of two teacher professional development approaches. *International Journal of Problem-Based Learning* 5(2).
- *Denotes contribution was as quantitative methodologist.

Invited Presentations

- 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. (2018, August). *The lock to the safe has been tampered with: Why FERPA & IRB aren't enough to protect student data in higher education*. Presentation at the August 2018 NISO virtual conference.

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

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.

Book Chapters

Robertshaw, M.B., Walker, A., Recker, M., Leary, H., & Sellers, L. (2010). Experiences in the Field: The evolution of a technology-oriented teacher professional development model. In *New Science of Learning: Computers, Cognition and Collaboration in Education*, Myint Swe Khine and Issa M. Saleh, Eds. New York: Springer

Robertshaw, M.B., Leary, H., Walker, A., Bloxham, K., & Recker, M. (2009). Reciprocal mentoring "in the wild": A retrospective, comparative case study of ICT teacher professional development. In *Effective Blended Learning Practices: Evidence-Based Perspectives in ICT-Facilitated Education* (pp. 280-297), Philippa Gerbic & Elizabeth Stacey, Eds. Hershey, PA: IGI Global.

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.

Perry, M., Briney, K., Goben, A., Jones, K.M.L., Robertshaw, M.B., & Salo, D. (November, 2018). *ACRL Spec Kit: Learning Analytics and Related Ethical, Policy, and Practical Issues*. Association of Research Libraries: Washington, D.C.

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

Robertshaw, M.B. (2016, May). *Summary of survey of workplace climate survey instruments*. 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. (2014, July). *CoursEval trend analysis: A longitudinal look at impact of course transformation on course ratings*. West Lafayette, IN, USA: Purdue University.

Robertshaw, M. B. (2014, May). *Two parts: Online versus face-to-face comparisons of differences in final grade and the relationship between DFW rates, course design elements and student perceptions*. West Lafayette, IN, USA: Purdue University.

Robertshaw, M. B. & Richards, K.A.R. (2014, March). *Gender, International Student Status, Under Represented Minority Status, Ethnicity and IMPACT*. West Lafayette, IN, USA: Purdue University.

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

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

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.

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., Willi Hooper, M., Goergen-Doll, K. (June, 2017). *Finding the silver lining... in the serials budget crisis*. Paper presented at the Evidenced Based Library & Information Practice Conference, Philadelphia, Pa., 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.

Robertshaw, M.B. (2010, October). *Teacher professional development: Describing teacher technological pedagogical content knowledge through the use of a rubric*. Paper presented at the Association for Educational Communications and Technology Conference, Anaheim, Ca.

Robertshaw, M.B., Olsen, J., Walker, A. (2010, October). *Teacher professional development models: Inquiry into concurrent versus separate technology and pedagogical knowledge and use*. Paper presented at the Association for Educational Communications and Technology Conference, Anaheim, Ca.

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.

Regional Presentations

Robertshaw, M.B., Nielsen, B., Dahlgreen, M.K. (2017, April). Data-driven thriving: Using info you already collect to improve and advocate for your library. Presentation at Oregon Library Association 2017 Conference, Salem, Ore., USA.

Eastmond, N., & Robertshaw, M. B. (2007, March). *Evaluation of the LSTA*. Report of evaluation findings to the Utah State Library Board, Salt Lake City, UT.

Teaching

Spring 2016-Present

Instructor & Developer

SPSS Basics Workshop

Oregon State University Libraries Graduate Workshop Series

1-hour workshop developed as a part of Oregon State University Library's graduate student workshop series. Delivered quarterly. Workshop covers: working with files, setting up data, transforming data, running descriptives, chi-square and correlation.

Spring 2016-Present

Instructor & Developer

SPSS Intermediate

Oregon State University Libraries Graduate Workshop Series

1-hour workshop developed as a part of Oregon State University Library's graduate student workshop series. Delivered quarterly. Workshop covers: ANOVA, T-tests, graphs & charts, linear regression.

Spring 2018

Instructor

SED 612: Quantitative Research Design and Critical Analysis

Required basic quantitative methods course for masters and PhD students in the College of Education, Oregon State University.

Spring 2011

Teaching Assistant for Dr. Todd Campbell: Science and Society, a required Science Teaching Methods course

Department of Teacher Education and Leadership, Utah State University, Logan, UT USA

Contribution: Assessment of students understanding of the nature of science through the use of the VNOS-C survey; assessment of students' abilities to understand the nature of science and scientific argumentation in blog posts on current events in science; assisting in leading final class action project; in class helping to guide discussions about topics covered related to science in society.

Mentoring in Statistics and Educational Research

Doctoral Committee, Member

Emily Jane Anderson, Science Education, Oregon State University

Masters Committee, Member

Dominga Sanchez, Civil Engineering, Oregon State University

Summer 2018 – Spring 2019: Working with two Oregon State University, College of Education, doctoral students to analyze and publish results from a survey on the ESTEME Grant

Spring 2016-Present

Oregon State University, Corvallis, OR, USA

Consult with graduate and undergraduate students on statistics questions as needed.

Spring 2014-Spring 2015

Purdue University, West Lafayette, IN, USA

Worked with a faculty member in Libraries to learn basic statistical methods, including descriptives, T-tests, ANOVA, and effect sizes so that they could use them in their research. Also worked with faculty member to learn how to implement quasi-experimental research designs in order to measure the impact of different instructional interventions.

Summer 2012

Utah State University, Logan, UT, USA

Worked with a doctoral student in Psychology to verify statistical tests run for dissertation research. Also helped student to understand all statistical methods so that he could adequately defend his work to his doctoral committee.

Fall 2011-Spring 2012

Utah State University, Logan, UT, USA

Working extensively with an Instructional Technology and Learning Sciences PhD student on methods and results section for dissertation.

This work included: teaching student basic stats from what a significance level is to ANCOVA, understanding the difference between parametric and non-parametric tests, understanding validity and reliability, and guiding them through writing methods and results section of dissertation in coordination with student's dissertation chair and director of the Office of Methodological and Data Services. I also helped the student re-validate a beginning stats course through devising two more ways dissertation data could be analyzed and putting together a presentation explaining this for their doctoral committee.

Fall 2011

Utah State University, Logan, UT, USA

Worked with a Management Information Systems student using latent class analysis for dissertation.

Fall 2011

Utah State University, Logan, UT, USA

Helped an Educational Leadership PhD student to use generalized estimating equation in a repeated measures model for dissertation.

Fall 2009 – Spring 2010

Utah State University, Logan, UT, USA

Mentored undergraduate researchers as they helped to refine a rubric to assess in-service teachers technological pedagogical content knowledge that I developed from previous research

Service

National Service

- **July 2017 – Present:** Member, Association of College and Research Libraries Value of Academic Libraries Committee
 - **Winter 2019 – Present:** Member ACRL VAL Advocacy & EDI Subcommittee
 - **Fall 2019-Present:** Member ACRL VAL Data Analytics and Privacy Subcommittee
- **January 2018-Present:** Member, American Library Association Library Research Round Table
 - **Winter 2019 - Present:** Member ALA LRRT Nominations Committee

Service to Oregon State University

- Winter 2019 – Present: Member, Oregon State University Learning Analytics Student Readiness Committee
- 2016 & 2017: Member, Human Library Committee
- June 2016-June 2017: Working with the Peace Literacy Campaign on assessment tasks.
- Fall 2016: Search Committee Member, Assistant Director for Research for E-Campus search
- December 2015 – June 2016: Member Oregon State University Learning Analytics Task Force