

DANIEL M. SWAN

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EDUCATION

Ph.D., Educational Psychology – Quantitative Methods **2019**
University of Texas at Austin, Austin, TX

M.Ed., Educational Psychology – Quantitative Methods **2014**
University of Texas at Austin, Austin, TX

M. S., Psychological Sciences **2010**
University of Texas at Dallas, Richardson, TX

B.S., Psychology **2008**
University of Texas at Dallas, Richardson, TX

PROFESSIONAL EXPERIENCE

Postdoctoral Scholar for Prevention Science Institute **2018-Present**
University of Oregon

- Produce training materials for evidence reviewer trainings
- Provide support to the development and presentation of WWC Technical Assistance Webinars
- Facilitate and participate in the statistics and methodology groups devoted to refining and revising the WWC's *Standards* and *Procedures* handbooks

Note: I performed these duties under a “Pro-tem Research Assistant” title until I finished my Ph.D.

Data analyst with the Meadows Center for Preventing Educational Risk **Spring 2018**
University of Texas at Austin

- Analyze extant datasets for novel methodological problems.
- Apply advanced methods such as latent growth modeling, path analysis, and multidimensional IRT models.
- Prepare technical documentation and interpret statistical models for both technical and nontechnical audiences.

Statistical Consultant for the College of Education **2015-2018**
University of Texas at Austin

- Provide methodological guidance to graduate students on research design, power and statistical analysis, statistical programming, and interpretation of results.
- Assist students in retrieval of datasets from a variety of sources and import them into appropriate statistical software.
- Develop and lead workshops on relevant topics such as power analysis and programming in R to students, faculty, and staff at the University of Texas at Austin.

Graduate Research Assistant with Dr. Pustejovsky, **2014-2018**
 University of Texas at Austin, Department of Educational Psychology, Quantitative Methods

- Collaborate on drafting manuscripts for publication in peer-reviewed methodological research journals.
- Design and run Monte Carlo Simulations.
- Assist in maintenance of a large Access database of single-case data from multiple synthetic reviews, including using SQL queries to read and write data.
- Screen and code studies for synthetic review.
- Program novel statistical methods in R and collaborate on package development to make them available to researchers.

Teaching Assistant **2012-2017**
 University of Texas at Austin Topics include:

- Introductory Statistics including levels of measurement, introductory probability, hypothesis testing, t-test, chi-square, tests of proportions, simple regression.
- Other statistical methods such as ANOVA, ANCOVA/ATI, multiple regression, SEM (e.g. path analysis, CFA, multiple group models, invariance models, and latent growth modeling), generalized linear models (e.g. logistic regression, Poisson regression).
- Use of software packages including SPSS, MPLUS, and R, especially advanced programming in R.
- Quantitative research design.

REFEREED JOURNAL ARTICLES

Pustejovsky, James E., **Swan, Daniel M.**, & English, Kyle E. (2019). An examination of measurement procedures and characteristics of baseline outcome data in single-case research. *Behavior Modification*, forthcoming. <https://psyarxiv.com/dv9jg>

Swan, Daniel M., & Pustejovsky, James E. (2018). A gradual effects model for single-case designs. *Multivariate Behavioral Research*. 53:4, 574-593
 DOI:10.1080/00273171.2018.1466681

Pustejovsky, James E. & **Swan, Daniel M.** (2015). Four methods of analyzing partial interval recording data, with application to single-case research. *Multivariate Behavioral Research*, 50 (3), 365-380. DOI: 10.1080/00273171.2015.101487

UNDER SUBMISSION/REVISION

Swan, Daniel M., Pustejovsky, James E., & Beretvas, Susan N. (2019). The impact of response-guided designs on count outcomes in single-case experimental design baselines. <https://osf.io/zjng8/>

CONFERENCE PRESENTATIONS

Pustejovsky, James E., **Swan, Daniel M.**, & English, Kyle E. (2019). An examination of measurement procedures and baseline behavioral outcomes in single-case research. Poster presented at the American Educational Research Association annual convention, April 7, 2019 in Toronto, Ontario.

Swan, Daniel M., Pustejovsky, James E., & Beretvas, S. N. (2019). The impact of responseguided designs on count outcomes in single-case design baselines. Poster presented at the American Educational Research Association annual convention, April 7, 2019 in Toronto, Ontario.

Swan, Daniel M., & Pustejovsky, James E. (2017). A nonlinear intervention analysis model for treatment reversal single-case designs. Poster presented at the American Educational Research Association annual convention, April 28, 2017 in San Antonio, TX.

Swan, Daniel M., & Pustejovsky, James E. An intervention analysis model for single case design research. Poster presented at the American Educational Research Association annual convention, Division D Graduate Student Research in Progress Gala, April 11th, 2016 in Washington, DC.

Bunuan, Rommel, **Swan, Daniel M.**, & Beretvas, S. Natasha. Handling Methodological Issues in the Analysis of Single-Subject Experimental Design Data. Poster presented at the American Educational Research Association annual convention, April 4, 2014 in Philadelphia, PA.

Pustejovsky, James E. & **Swan, Daniel M.** Four methods of analyzing partial interval recording data, with application to single-case research. Poster presented at the American Educational Research Association annual convention, April 4, 2014 in Philadelphia, PA.

Swan, Daniel M. A moment estimator for partial interval recording data: Simulation design and results. Presented at the Texas Universities Educational Statistics and Psychometrics Meeting, March 21, 2014 at Texas A&M University.

SOFTWARE

Pustejovsky, James E. & **Swan, Daniel M.** (2018). SingleCaseES: A calculator for single-case effect size indices (R package version 0.4). URL:
<https://CRAN.Rproject.org/package=SingleCaseES>

SERVICE

Ad-hoc reviews for:

- Journal of Behavioral Education
- Multivariate Behavioral Research

Graduate Studies Committee, student representative (2015-2016)

GRANTS AND FELLOWSHIPS

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| University of Texas at Austin Graduate School Dissertation Writing Fellowship | Spring 2019 |
| Teresa Lozano Long Endowed Graduate Fellowship | 2017-2018 |
| Teresa Lozano Long Endowed Graduate Fellowship | 2016-2017 |
| Bascombe Royall and Frances Fallon Fuller Scholarship | 2015-2016 |
| Graduate School Recruitment Fellowship | 2014-2015 |
| Texas New Scholar Award for Master's Students | 2013-2014 |
| Texas New Scholar Award for Master's Students | 2012-2013 |