Dr. Sarah E Schwartz

Research Assistant Professor

Appointments

2015-present **Assistant Research Professor**, *Psychology Department, College of Education and Human Services*, Utah State University.
- Director, The Statistical Consulting Studio
- Instructor, graduate student quantitatice methods and statistics courses

2013-2015 **Statistician**, *Office of Research Services, College of Education and Human Services*, Utah State University.
- Acting Director, Office of Methodological and Data Sciences
- Instructor, graduate student quantitatice methods and statistics courses

2005-2013 **Statistician and Data Manager**, *Center for Epidemiology*, Utah State University.
- Managed databases, clean data, and prepare custom datasets
- Performed statistical analyses and prepared publications, posters, presentations, and grant submissions
- Worked under three main grants and many co-investigators: University of Utah, BYU, Duke, John Hopkins, University of Maryland, ect.

2012 **Data Manager**, *Kenoi Genetics Lab*, Brigham Young University.
- Managed databases and prepare custom datasets

2006-2008 **Adjunct Lecturer**, *Mathematics and Statistics Department*, Utah State University.
- Traditional, evening, and distance courses

2000-2004 **High School Teacher, Math and Science**.
- Sky View High School, Smithfield, Utah
- Logan River Academy, Logan, Utah

Education

2013-2017 **PhD: Mathetatics, Specialization in Statistics**, *Utah State University*, Logan, Utah, USA.
- Disertation: Exact Approaches for Bias Detection and Avoidance with Small, Sparce, or Correlated Categorical Data
- Mentor: Dr. Chris Corcoran
- TA: Lecturer and grader
- RA: Simulation programmer, Cytel Software Inc.
- 2015: Department Academic Excellence Award
- 2014: Department Industrious Graduate Student Award

Utah State University

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 SarahSchwartzStats.com • in *SarBearSchwartz*
 USU_StatStudio • *SarBearSchwartz*   *1/5*

2004-2006 **MS: Statistics**, *Utah State University*, Logan, Utah, USA.
- Thesis: Linear Mixed Effects Modeling of Neuropsychiatric Symptoms in Patients with Dementia
- TA: Lecturer and grader
- RA: Statistician, Center for Epidemiology Studies
- 2005: Department Graduate Student Teacher of the Year Award

1998-2000 **BS: Math and Chem Secondary Education**, *Utah State University*, Logan, Utah, USA.
- Student Teaching: Sky View High School, Smithfield, Utah

Licenses

2001-2009 **Secondary Education Teaching License**, State of Utah.
- Endorsements: mathematics level 4 and chemistry

Software

R, R Studio, and R Markdown (LaTeX).
- Data cleaning and wrangling, statistical analysis, and reproducible reporting

SAS, SPSS, MPlus, and G*Power.
- Data cleaning and wrangling, and statistical analysis

REDCap and Qualtrics.
- Creating forms and collecting data

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Publications

Submitted

2016

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PSY 7650: Multilevel and Marginal Models for the Social Sciences
Coverage of multilevel *(ie, mixed-effects, hierarchical linear)* and marginal *(ie, GEE)* models for both continuous and categorical outcomes. Includes application of these methods to many types of cross-sectional and longitudinal research designs *(eg, experimental, case-control, cohort, cross-over, complex sample, randomized controlled trials)*.

o Software: `R` and `R Studio`
  - 2019 Fall *(scheduled)*
  - 2018 Fall
  - 2017 Fall
  - 2016 Fall

PSY 6600: Statistical Foundataions *(previously: Research Design and Analysis I)*
Research design and statistical concepts for research in education, human services, and psychology, with emphasis on the selection and interpretation of statistical analyses. Focus on ANOVA based methods. Includes a combination of traditional face-to-face and diatnace site students. *(Summer sessions condensed to 7 weeks)*

o Software: `R` and `R Studio`
  - 2019 Summer
  - 2019 Spring
  - 2018 Summer
  - 2018 Spring
o Software: `SPSS`
  - 2017 Summer
  - 2017 Spring
  - 2016 Summer
  - 2015 Summer

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STAT 2000: Statistical Methods
Introduction to statistical concepts, graphical techniques, probability, distributions, estimation, one and two sample testing, chi-square tests, and simple linear regression, one-way ANOVA.

- Software: `StatCrunch`
  - 2014 Fall
  - 2014 Spring
  - 2005 Fall
  - 2005 Spring

STAT 1040 Introduction to Statistics
Descriptive and inferential statistical methods. Emphasis on conceptual understanding and statistical thinking. Examples presented from many different areas.

- Software: *none*
  - 2008 Spring, mostly distance sites
  - 2007 Fall
  - 2007 Spring
  - 2006 Fall

MATH 1050 College Algebra
Functions: graphs, transformations, combinations, and inverses. Polynomial, rational, exponential, logarithmic functions, and applications. Systems of equations and matrices. Partial fractions.

- Software: `graphing calculators`
  - 2004 Fall

MATH 1010 Intermediate Algebra
Review of introductory algebra concepts. Topics include manipulating and simplifying expressions, solving equations and inequalities, graphing equations, and inequalities. Real world applications including linear, quadratic, polynomial, rational, exponential, and radical functions.

- Software: *none*
  - 2006 Summer

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