

Brinley N. Zabriskie

Utah State University
Data Analytics & Information Systems
708 EBB, Logan, UT 84322

(435) 797-2341
brinley.zabriskie@usu.edu
linkedin.com/in/brinleyzabriskie

EDUCATION

PhD in Statistics, Utah State University (USU)	2019
Dissertation: Methods for Meta-Analyses of Rare Events, Sparse Data, and Heterogeneity	
Advisor: Chris Corcoran, ScD	
BSc in Mathematics and Statistics, <i>magna cum laude</i>, USU	2014

EMPLOYMENT

Assistant Professor, USU	07/2023 – Present
Assistant Professor, Brigham Young University (BYU)	06/2019 – 06/2023
Graduate Research Assistant, USU	05/2018 – 08/2018
Statistical Consultant, USU	01/2018 – 02/2018
English Consultant, USU	04/2016 – 11/2016
Statistician, Intermountain Healthcare, Salt Lake City, UT	05/2015 – 08/2015
Business Intelligence Analyst, Journal Technologies, Logan, UT	05/2014 – 12/2014

TEACHING

Probability and Inference I, STAT 240, BYU	Fall 2021 & Winter 2023
Introduction to Regression, STAT 330, BYU	Fall 2019, 2020, 2022 & Winter 2020, 2021
Business Statistics, USU	08/2018 – 05/2019
Business Statistics, Teaching Assistant, USU	08/2017 – 05/2018
Introduction to Statistics, USU	06/2016 – 08/2016
Statistics, Teaching Assistant, USU	01/2016 – 04/2016
Business Statistics, Teaching Assistant, USU	01/2014 – 05/2014
Math Refresher Course, Teaching Assistant, USU	01/2014
College Algebra, Teaching Assistant, USU	08/2013 – 12/2013

Brinley N. Zabriskie

SCHOLARSHIP

PEER-REVIEWED PUBLICATIONS

Catchpole A, **Zabriskie BN**, Bassett P, Embley B, White D, Gale SD, Hedges D. (2023) "Association between Toxoplasma gondii infection and Type-1 Diabetes Mellitus: A Systematic Review and Meta-Analysis," *International Journal of Environmental Research and Public Health*, 20(5), 4436, doi: 10.3390/ijerph20054436

Bassett P, **Zabriskie BN**, Catchpole A, Hedges D. (2022) "Association between Toxoplasma gondii and systemic lupus erythematosus: A systematic review and meta-analysis," *Journal of Translational Autoimmunity*, 5, 100163, doi: 10.1016/j.jtauto.2022.100163.

Ott A, **Zabriskie BN**, Hartman B. (2022) "Predicting diabetes and ENT emergency department admissions using hospital records," *Journal of Hospital Management and Health Policy*, 6(34), doi: 10.21037/jhmhp-22-3.

Zabriskie BN, Corcoran C, Senchaudhuri P. (2021) "A Permutation-Based Approach for Heterogeneous Meta-Analyses of Rare Events," *Statistics in Medicine*, 40(25), 5587-5604, doi: 10.1002/sim.9142.

Zabriskie BN, Corcoran C, Senchaudhuri P. (2021) "A Comparison of Confidence Distribution Approaches for Rare Event Meta-Analysis," *Statistics in Medicine*, 40(24), 5276–5297, doi: 10.1002/sim.9125.

Christensen WF, **Zabriskie BN**. (2021) "When Your Permutation Test is Doomed to Fail," *The American Statistician*, 76(1), 53-63, doi: 10.1080/00031305.2021.1902856.

Melville W, **Zabriskie B**. (2020) "The Houston Asterisks: Analyzing the Effects of Sign Stealing on the Astros' World Series Season," *The Baseball Research Journal*, 49(2), 33–40.

PUBLISHED SOFTWARE

Zabriskie BN, Kinard B, Sypherd C, Whetten R. "rema: Rare-Event Meta-Analysis," R package accepted by the Comprehensive R Archive Network (CRAN), open source.

PUBLICATIONS UNDER PEER REVIEW

Zabriskie BN, Baldauf J, Cole N. "The Impact of Continuity Corrections on Rare-Event Meta-Analysis," *Research Synthesis Methods* (currently revising prior to resubmission).

Brinley N. Zabriskie

PRESENTATIONS

Zabriskie BN, Liu E, Anderson B. (2023) “Meta-Regression Methods for Rare-Event Data,” Oral and Poster Presentation at the Western North American Region of The International Biometric Society (WNAR).

Zabriskie BN, Cole N, Baldauf J, Decker C, (2023) “The Impact of Correction Methods on Rare-Event Meta-Analysis,” Oral Presentation at the Society for Research Synthesis Methodology (SRSM) Meeting.

Sharif B, Tremblay G, Daniele P, Jemai Y, Senchaudhuri P, **Zabriskie BN**, Corcoran C. (2021) “Systematic Comparison of Meta-Analysis Software and Validation of MetaXact for Meta-Analysis of Sparse Outcomes,” Virtual Poster Presentation at the Professional Society for Health Economics and Outcomes Research (ISPOR) Europe 2021.

Zabriskie BN, Baldauf J, Cole N. (2021) “The Impact of Continuity Corrections on Rare-Event Meta-Analysis,” Virtual Presentation at the Joint Statistical Meetings (JSM).

Zabriskie BN, Baldauf J, Cole N. (2021) “The Impact of Continuity Corrections on Rare-Event Meta-Analysis,” Virtual Presentation at WNAR.

Zabriskie BN, Cole N, Baldauf J, Corcoran C, Senchaudhuri P. (2020) “Identifying Heterogeneity in Meta-Analysis: A Permutation-Based Approach,” Virtual Presentation at JSM.

Christensen W, **Zabriskie BN**. (2020) “When your permutation test is doomed to fail,” Virtual Presentation at JSM.

Zabriskie BN, Corcoran C, Senchaudhuri P. (2019) “Exact Network Meta-Analysis for Rare Events,” Oral and Poster Presentation at the Women in Statistics and Data Science (WSDS) Conference, Bellevue, Washington.

Zabriskie BN, Corcoran C, Senchaudhuri P. (2019) “Exact Meta-Analysis Using a Permutation-Based Approach,” Poster Presentation at JSM, Denver, Colorado.

Zabriskie BN, Corcoran C, Senchaudhuri P. (2018) “Exact Meta-Analysis Using a Permutation-Based Approach,” Oral and Poster Presentation at WSDS, Cincinnati, OH.

Zabriskie BN, Corcoran C, Senchaudhuri P. (2018) “Combining Confidence Distributions for Rare Event Meta-Analysis,” Oral Presentation at JSM, Vancouver, British Columbia, Canada.

Corcoran C, **Zabriskie BN**, Senchaudhuri P. (2018) “Exact Meta-Analysis Using a Permutation-Based Approach,” Oral Presentation at the International Society of Non-Parametric Statistics (ISNPS) Conference, Salerno, Southern Italy.

Zabriskie BN, Corcoran C, Senchaudhuri P. (2018) “Combining Confidence Distributions for Rare Event Meta-Analysis,” Oral Presentation at Utah State University’s Research Symposium, Logan, UT. (Received an award for this presentation.)

Brinley N. Zabriskie

Zabriskie BN, Corcoran C, Senchaudhuri P. (2016) "An Overview of Meta-Analysis Software Features," Oral Presentation to managers at Cytel, a large statistical software company, Cambridge, MA.

CITIZENSHIP AND VOLUNTEER WORK

Statistical Modeling 2 (STAT 330) Course Coordinator	2023
Faculty Advisor for the BYU Statistics Club Student Association, a Student Chapter of the American Statistical Association (ASA)	2022 – 2023
Past President of the Utah Chapter of the ASA	2022 – 2023
Member of the BYU Statistics Department Rank & Status Revision Committee	2022 – 2023
Peer-Reviewer for <i>Statistics in Medicine</i> , 2 articles in 2022, 1 article in 2023	2022 – 2023
Peer-Reviewer for <i>The American Statistician</i> , 1 article	2022
President of the Utah Chapter of the ASA	2021 – 2022
Member of the BYU Statistics Department Major Recruitment & Retention Committee	2021
1 st Vice President of the Utah Chapter of the ASA	2020 – 2021
Co-chair of the weekly BYU Statistics Department seminars	2019 – 2021
Volunteer mathematics and statistics tutor for undergraduates	2011 – 2019
Ambassador to potential USU graduate students	2014 – 2018
Reviewer for USU Undergraduate Research and Creative Opportunity grants	2017 – 2018
Judge for undergraduate research presentations during USU's Student Research Symposium	2017 – 2018
Statistical consultant for a Biological Engineering PhD student's dissertation	2017

PROFESSIONAL MEMBERSHIPS

Society for Research Synthesis Methodology (SRSM), invited member	2022 – Present
The Western North American Region (WNAR) of The International Biometric Society, member	2020 – Present
American Statistical Association (ASA), member	2014 – Present

Brinley N. Zabriskie

STUDENT MENTORING

GRADUATE CHAIR

Emily Liu	2023
<i>Meta-Regression Methods for Rare-Event Data</i>	
Nolan Cole	2022
<i>The Impact of Continuity Corrections on Rare-Event Meta-Analysis (under review)</i>	
Travis Andersen	2022
<i>A Permutation-Based Confidence Distribution for Rare-Event Meta-Analysis</i>	
Adam Ott	2021
<i>Predicting Diabetes and ENT Emergency Department Admissions (published)</i>	

GRADUATE COMMITTEE MEMBER

Noah Leavitt	2023
Steven Orgill	2021
Spencer Newcomb	2020
Hannah Nyholm	2020

UNDERGRADUATE RESEARCH MENTOR

Craig Decker	2022
<i>Paper under review</i>	
Madeleine Hays	2021
Jake Baldauf	2019 – 2021
<i>Paper under review</i>	
Nolan Cole	2019 – 2021
<i>Paper under review</i>	
Emily Liu	2020 – 2021
Ben Kinard	2021
<i>Software published</i>	
Chris Sypherd	2021
<i>Software published</i>	
Christina Rhees	2021
Ryan Whetten	2021
<i>Software published</i>	
Joseph Sears	2019 – 2020
Sage Roney	2019 – 2020
Ben Anderson	2020
Will Melville	2020
<i>Paper published</i>	

Brinley N. Zabriskie

AWARDS

Young Scholar Faculty Fellowship, Statistics Department, BYU	2022
Graduate PhD Researcher of the Year Award, Mathematics and Statistics Department, USU	2019
Excellence in Teaching Award, Mathematics and Statistics Department, USU	2019
Student Research Symposium Outstanding Graduate Oral Presentation Award, USU	2018
Academic Excellence Award, Mathematics and Statistics Department, USU	2014, 2016
Presidential Doctoral Research Fellowship for graduate degree, USU	2014
Regents' Scholarship for Exemplary Academic Achievement	2011
Presidential Scholarship for undergraduate degree, USU	2011