

CURRICULUM VITAE

Name: Jeffrey N. Jonkman
Associate Professor of Mathematics and Statistics
Grinnell College

Home Address: 125 16th Avenue
Grinnell, IA 50112

Work Address: Department of Mathematics and Statistics
Grinnell College
1116 8th Avenue
Grinnell, IA 50112

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Refereed Publications:

1. Sidik K, Jonkman JN. Quantifying Uncertainty in Method of Moments Estimates of the Heterogeneity Variance in Random Effects Meta-Analysis. *Biometrical Journal* 2022; 64: 598-616.
2. Sidik K, Jonkman JN. A Note on the Empirical Bayes Heterogeneity Variance Estimator in Meta-Analysis. *Statistics in Medicine* Sep 2019; 38(20): 3804-3816. DOI: 10.1002/sim.8197.
3. Sidik K, Jonkman JN. A Comparison of the Variance Estimation Methods in Heteroscedastic Nonlinear Models. *Statistics in Medicine* Nov 2016; 35(26): 4856-4874. DOI: 10.1002/sim.7024.
4. Sidik K, Jonkman JN. Testing for Parallelism in the Heteroscedastic Four-parameter Logistic Model. *Journal of Biopharmaceutical Statistics* Apr 2016; 26(2): 250-268.
5. Nagarajan R, Jonkman JN. A Neural Network Model to Translate Brain Developmental Events across Mammalian Species. *PLoS One*, January 7, 2013.
6. Jonkman JN, Blinn-Pike L, Worthy SL. How is Gambling Related to Perceived Parenting Style and/or Family Environment for College Students? *Journal of Behavioral Addictions* 2013; 2(1): 42-49.
7. Bronstein JM, Ounpraseuth ST, Jonkman JN, Fletcher D, Nugent RR, McGhee J, Lowery CL. Use of Specialty OB Consults during High Risk Pregnancies in a Medicaid Covered Population: Initial Impact of the Arkansas ANGELS Intervention. *Medical Care Research and Review* 2012; 69(6): 699-720.
8. Bronstein JM, Ounpraseuth ST, Jonkman JN, Lowery CL, Fletcher D, Nugent RR, Hall RW. Improving Perinatal Regionalization for Preterm Deliveries in a Medicaid Covered Population: Initial Impact of the Arkansas ANGELS Intervention. *Health Services Research* 2011; 46(4): 1083-1102.
9. Worthy SL, Jonkman JN, Blinn-Pike L. Sensation-Seeking, Risk-Taking, and Problematic Financial Behaviors of College Students. *Journal of Family and Economic Issues* 2010; 31: 161-170.
10. Jonkman JN, Sidik K. Equivalence Testing for Parallelism in the Four-parameter Logistic Model. *Journal of Biopharmaceutical Statistics* 2009; 19: 818-837.
11. Jonkman JN, Gerard PD, Swallow WH. Estimating Probabilities Under the Three-parameter Gamma Distribution Using Composite Sampling. *Computational Statistics and Data Analysis* 2009; 53: 1099-1109.

12. Sidik K, Jonkman JN. Estimation Using Non-Central Hypergeometric Distributions for Combining 2x2 Tables. *Journal of Statistical Planning and Inference* 2008; 138: 3993-4005.
13. Blinn-Pike L, Worthy SL, Jonkman JN, Smith GR. Emerging Adult versus Adult Status among College Students: Examination of Explanatory Variables. *Adolescence* 2008; 43: 577-591.
14. Sidik K, Jonkman JN. A Comparison of Heterogeneity Variance Estimators in Combining Results of Studies. *Statistics in Medicine* 2007; 26: 1964-1981.
15. Blinn-Pike L, Worthy SL, Jonkman JN. Disordered Gambling among College Students: A Meta-Analytic Synthesis. *Journal of Gambling Studies* 2007; 23: 175-183.
16. Sidik K, Jonkman JN. Robust Variance Estimation for Random Effects Meta-Analysis. *Computational Statistics and Data Analysis* 2006; 50: 3681-3701.
17. Sidik K, Jonkman JN. A Note on Variance Estimation in Random Effects Meta-Regression. *Journal of Biopharmaceutical Statistics* 2005; 15: 823-838.
18. Sidik K, Jonkman JN. Simple Heterogeneity Variance Estimation for Meta-Analysis. *Applied Statistics (Journal of the Royal Statistical Society, Series C)* 2005; 54(2): 367-384.
19. Jonkman JN, McCarty D, Harwood H, Normand SL, Caspi Y. Practice Variation and Length of Stay in Alcohol and Drug Detoxification Centers. *Journal of Substance Abuse Treatment* 2005; 28: 11-18.
20. Sidik K, Jonkman JN. Sample Size Determination in Fixed-Dose Combination Drug Studies. *Pharmaceutical Statistics* 2003; 2(4): 273-278.
21. Sidik K, Jonkman JN. On Constructing Confidence Intervals for a Standardized Mean Difference in Meta-Analysis. *Communications in Statistics - Simulation and Computation* 2003; 32(4): 1191-1203.
22. Sidik K, Jonkman JN. A Simple Confidence Interval for Meta-Analysis. *Statistics in Medicine* 2002; 21: 3153-3159.
23. Jonkman JN, Normand SL, Wolf R, Borbas C, Guadagnoli E. Identifying a Cohort of Patients with Early-Stage Breast Cancer: A Comparison of Hospital Discharge and Primary Data. *Medical Care* 2001; 39: 1105-1117.

Other Publications:

1. Worthy SL, Blinn-Pike L, Jonkman JN. Having mom and dad pay for college:

- 1994-1995 Research Assistant, EMAP Forestry Project; Spatial analysis of forestry data for the national Environmental Monitoring and Assessment Program, work funded by the U.S. Forest Service
- 1993-1995 Research Analyst, Johnston, Zabor and Associates, Durham, NC; Analysis of survey data and prediction of product market shares
- 1991-1992 Statistician, Exxon NRDA Project, Houston, Texas; Analysis of wildlife data following the Exxon Valdez oil spill

Honors and Distinctions:

- 1997 William Mendenhall Teaching Scholar, Department of Statistics, NCSU
- 1992-1993 Gertrude M. Cox Fellowship, Department of Statistics, NCSU
- 1986 Faculty Honors Scholarship, Calvin College
- 1985 Presidential Scholarship, Calvin College

Local and National Presentations:

- Nov 2014 Central Illinois Statistical Association, Peoria, IL. *More Lies, Damned Lies, and Statistics: A Quick Tour of Meta-Analysis.*
- Nov 2014 Department of Mathematics, Bradley University, Peoria, IL. *Lies, Damned Lies, and Statistics: A Brief Overview of Meta-Analysis.*
- July 2012 ACES (Adult Community Exploration Series) Course, Grinnell, IA. *Lies, Damned Lies, and Statistics.*
- Nov. 2009 Central Arkansas Statistical Association, Little Rock, AR. *Introduction to Meta-Analysis.* (Short course taught jointly with Terry Griffin, Ph.D., and Tom Stanley, Ph.D.)
- Sep. 2008 UAMS Department of Psychiatry, Division of Health Services Research Conference, Little Rock, AR. *Studying Length of Stay in Detox: A ctive.*
- July 2007 Department of Biostatistics, Vanderbilt University, Nashville, TN. *A Simple Estimator of the Between-Study Variance in Meta-Analysis.*
- Aug. 2004 Joint Statistical Meetings, Toronto, ON, Canada. *Simple Heterogeneity Variance Estimation for Meta-Analysis.*
- Mar. 2000 ENAR (Biometric Society) Meetings, Chicago, IL. *On the Power of Stratified Analyses Using Propensity Score Stratification.*
- Aug. 1999 Joint Statistical Meetings, Baltimore, MD. *On the Power of Stratified Analysis Using Propensity Score Matching.*

- July 1999 Statistical Methods Seminar in Health Care Policy, Harvard Medical School, Boston, MA. *On the Power of Stratified Analysis Using Propensity Score Matching.*
- Apr. 1996 Air Quality Working Group Seminar, National Institute of Statistical Sciences, Research Triangle Park, NC. *A Mixed Model for Spatial Covariance of Ozone Levels.*

Administrative Responsibilities:

- 2018-present Associate Editor, *Journal of Statistics and Data Science Education*
- 2017-22 Institutional Review Board Chair, Grinnell College
- 2017-21 Statistics Concentration Chair, Grinnell College
- 2014 President, Iowa Chapter of the American Statistical Association
- 2012-15 Community Mini-Grant Review Committee, Grinnell College

- 1999-2000 Statistical Methods Seminar Coordinator, Department of Health Care Policy, Harvard Medical School
- 1996-1998 Web Page Committee, Department of Statistics, North Carolina State University
- 1993-1997 Student Seminar Committee, Department of Statistics, North Carolina State University

Graduate Student Advisor, Department of Statistics, North Carolina State University