

# Christopher J. Sroka

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## EDUCATION

**The Ohio State University**, Columbus, OH

Ph.D., Statistics, August 2008

Dissertation Topic: “Extending Ranked Set Sampling to Survey Methodology”

Advisers: Elizabeth A. Stasny, Douglas A. Wolfe

M.S., Statistics, June 2006

**Wayne State University**, Detroit, MI

M.A., Economics, December 1998

Concentration: Industrial Organization

B.A., Economics and Political Science, May 1997

## PROFESSIONAL EXPERIENCE

**New Mexico State University**, Las Cruces, NM

College of Business, Department of Economics, Applied Statistics, & International Business

Assistant Professor, August 2016 to present

**RTI International**, Research Triangle Park, NC

Senior Research Statistician, June 2015 to July 2016

**The Ohio State University**, Columbus, OH

College of Public Health, Division of Biostatistics

Lecturer, June 2011 to May 2015

**Battelle**, Columbus, OH

Various positions leading to Senior Research Scientist, January 2008 to June 2015

**Congressional Research Service**, Washington, DC

Health Economist, February 1999 to June 2003

## TEACHING EXPERIENCE

**New Mexico State University**

Statistical Applications (A ST 311), Fall 2016

Statistical Analysis I (A ST 565), Fall 2016

**The Ohio State University**

Introduction to SAS for Public Health Students (PUBHBIO 6270), Spring 2015

Introduction to SAS for Public Health Students (PUBHBIO 6270), Autumn 2014

Introduction to SAS for Public Health Students (PUBHBIO 6270), Autumn 2013

Introduction to SAS for Public Health Students (PUBHBIO 6270), Spring 2013

Practical Biostatistics for Biomedical Laboratory Researchers (PUBHBIO 6280), Summer 2011

## PEER REVIEWED PUBLICATIONS

Sroka, C.J., McIver, K.L., Sagatov, R.D.F., Arteaga, S., and Frongillo, E.A. (2015) “Weight Status Measures Collected in the Healthy Communities Study: Protocols and Analyses.” *American Journal of Preventive Medicine*. 49(4):642–646.

Strauss, W.J., Sroka, C.J., Frongillo, E.A., Arteaga, S.S., Loria, C.M., Leifer, E.S., Wu, C.O., Patrick, H., Fishbein, H.A., and John, L.V. (2015) “Statistical Design Features of the Healthy Communities Study.” *American Journal of Preventive Medicine*. 49(4):624–630.

## OTHER PUBLICATIONS

Baskin, R.M., Owens, P.L., Sroka, C.J., and Geppert, J.J. (2014) “A Comparison of Small Area Models Used in the Quality Indicators Program Sponsored by Agency for Healthcare Research and

Quality.” *Proceedings of the 2013 Federal Committee on Statistical Methodology Research Conference*. Available at [https://fcsml.sites.usa.gov/files/2014/05/C2\\_Baskin\\_2013FCSM.pdf](https://fcsml.sites.usa.gov/files/2014/05/C2_Baskin_2013FCSM.pdf)

Sroka, C.J. (2006) “Nonparametric Statistics.” In: Salkind, N.J., ed. *Encyclopedia of Measurement and Statistics*. Thousand Oaks, CA: Sage Publications Inc., 2006.

Sroka, C.J. (2005) “Statistics the ESEEE Way!” *STATS: The Magazine for Students of Statistics*. Spring 2005, Number 43.

#### TECHNICAL REPORTS

Sroka, C. “Analysis of Excess Costs Due to Patient Safety Events.” Battelle. Prepared for the Ohio Hospital Association. November 24, 2014.

Sroka, C. “Analysis of Infection Rates Following Permanent Pacemaker-Like Device Procedures Using Veteran Data from the Centers for Medicare & Medicaid Services.” Battelle. Prepared for the Office of the Medical Inspector, Veterans Health Administration, Department of Veterans Affairs. September 30, 2014.

Sroka, C. and Fishbein, H. “Final Risk Analysis Plan for Enhancing the Sample Design and Analytic Approach for the Project on Permanent Pacemaker Devices.” Battelle. Prepared for the Office of the Medical Inspector, Veterans Health Administration, Department of Veterans Affairs. August 22, 2014.

Sroka, C. “Indexes Calculated from Housekeeping Practices Survey.” Battelle. Prepared for the Office of the Medical Inspector, Veterans Health Administration, Department of Veterans Affairs. July 24, 2014.

“Assessment of Statistical Power for the Healthy Communities Study.” Available at <http://www.reginfo.gov/public/do/DownloadDocument?documentID=411462&version=1>

Sroka C. and Fishbein, H. “Evaluating Pacemaker Project Sample Design.” Battelle. Prepared for Office of the Medical Inspector, Veterans Health Administration, Department of Veterans Affairs. May 17, 2012.

Strauss, W., Sroka C., and Fishbein, H. “The Use of Control Charts to Examine Peer Review Rates at Veterans Affairs Medical Centers.” Battelle. Prepared for Office of the Medical Inspector, Veterans Health Administration, Department of Veterans Affairs. April 19, 2011.

Strauss, W., Sroka C., and Fishbein, H. “Characterization and Normalization of VHA Peer Review Data.” Battelle. Prepared for Office of the Medical Inspector, Veterans Health Administration, Department of Veterans Affairs. February 11, 2011.

Sroka, C.J., Stasny, E.A., and Wolfe, D.A. “Constructing Confidence Intervals from a Ranked Set Sample.” The Ohio State University, Department of Statistics. Technical Report 783. August 5, 2006.

Sroka, C.J., Stasny, E.A., and Wolfe, D.A. “Ranked Set Sampling: Where Are the Samplers?” The Ohio State University, Department of Statistics. Technical Report 752. May 27, 2005.

Lyke, B. and Sroka, C.J. “Tax Benefits for Health Insurance: Current Legislation.” Congressional Research Service. CRS Issue Brief IB98037. May 14, 2003.

Sroka, C.J. “Health Care Spending: Past Trends and Projections.” Congressional Research Service. CRS Report RL31094. February 27, 2003.

Sroka, C.J. “Medicare: Beneficiary Cost-Sharing Under Proposed Drug Benefits.” Congressional Research Service. CRS Report RL31525. January 24, 2003.

Sroka, C.J. “Medicare+Choice: Using Competitive Bidding to Determine Payments.” Congressional Research Service. CRS Report RL31434. June 25, 2002.

#### PRESENTATIONS

“Measuring the Excess Cost of Safety Events at Select Ohio Hospitals Using Medicare Spending Per Beneficiary.” Presented at the Annual Congress of the National Patient Safety Foundation, Austin, TX. April 30, 2015.

“Confidence Intervals for the Odds Ratio Estimated from Count Models.” Presented at the Joint

Statistical Meetings, Boston, MA. August 2-7, 2014.

“Vision for the Quality Indicators: Your Perspective as a QI User.” Presented at the 15<sup>th</sup> Annual Healthcare Cost and Utilization Project (HCUP) Partners Meeting, sponsored by the U.S. Agency for Healthcare Quality and Research. April 16-18, 2012.

“Approaches for Allocating Observations in a Stratified Ranked Set Sample.” Presented at “Non-parametric Statistics: Refined, Redefined, and Renewed,” Arlington, TX. April 16-17, 2009.

“Optimal Allocation for Unbalanced Stratified Ranked Set Sampling.” Presented at the Joint Statistical Meetings, Salt Lake City, UT. July 29-August 2, 2007.

“Approximate Confidence Intervals from a Ranked Set Sample.” Presented at the Joint Statistical Meetings, Seattle, WA. August 6-10, 2006.

“Ranked Set Sampling: Improving Estimates from a Stratified Simple Random Sample.” Presented at the Joint Statistical Meetings, Minneapolis, MN. August 7-11, 2005.

“Test-Drive with the Expert: EESEE.” Presented at the United States Conference on Teaching Statistics (USCOTS), Columbus, OH. May 19-21, 2005.

SERVICE  
ACTIVITIES

**U.S. Green Building Council**, Central Ohio Chapter, Columbus, OH  
Provide free statistical consulting and mentoring on a Green Schools Innovation Grant to study the impact of LEED-certified school buildings on student performance, 2012-2015

**The Ohio State University**, Department of Statistics, Columbus, OH  
Voice-recorded homework problems from a statistics textbook for a visually impaired student, 2008  
Judged projects by high school students at State Science Day, 2008  
Provided free statistical consulting services to two non-profit organizations on behalf of Statistics in the Community (STATCOM), 2007  
Various activities associated with recruiting potential graduate students to the department, including giving presentations, taking potential students to dinner, giving campus tours, and transporting potential students from hotel to campus, 2004-2007  
Co-president of Graduate Student Council, 2004-2005

**Journal reviews**

*American Journal of Preventive Medicine*, 2015

*Communications in Statistics - Simulation and Computation*, 2010

*Metron*, 2009

AWARDS

Health and Life Sciences Global Business President’s Award, Battelle, 2011

Multiple Outstanding Performance Awards, Battelle

The D. Ransom and Marian Whitney Award for Outstanding Consulting Effort, Department of Statistics, The Ohio State University, 2008

Student Travel Award, Survey Research Methods Section, American Statistical Association, 2005

First Place, Edward G. Hayes Graduate Research Forum, The Ohio State University, 2005

University Fellowship, The Ohio State University, 2003

Battelle Fellowship, The Ohio State University, 2003

Graduate-Professional Scholarship, Wayne State University, 1997-1998

Presidential Scholarship, Wayne State University, 1993-1997

COMPUTING SKILLS R, SAS, C++, Minitab, Stata, JMP, SPSS, L<sup>A</sup>T<sub>E</sub>X