

ADAM BICKFORD

Key Qualifications

- Testified before the Missouri Public Service Commission in Missouri Electric Rate Cases (ER-2010-0036, ER-20010-0355, ER-2010-0356, ER-2011-0004).
- Participated in review and filings in Integrated Resource Planning cases for Electric Utilities including KCP&L General Missouri Operations (EE-2009-0237), Ameren Missouri (EO-2011-0271) and Empire District Electric Company (EO-2011-0066)
- Reviewed and commented on Demand Side Management and Energy Efficiency policies in working group dockets before the Missouri Public Service Commission
- Certified SAS base programmer for SAS 9 (June, 2008)
- Multivariate statistical analyses, OLS and logistic regression, linear models (ANOVA, ANCOVA), multi-level models, SEM, factor analysis, cluster analysis
- Design, conduct and analysis of complex sample surveys (stratified designs, cluster designs, replicate designs, etc)
- Questionnaire development
- Institutional research for school districts, states, and the federal government
- Standardized data reporting using SAS
- Design and deployment of databases
- Design of evaluations using random control trials and quasi-experimental designs
- Publications and presentations in educational research, institutional research and museum studies

Education

Ph.D., Sociology, University of Chicago, Chicago, 1995

M.A., Sociology, University of Chicago, Chicago, 1986

B.A., Sociology, University of California, Berkeley, 1983

Certifications: SAS base programmer for SAS 9 (June, 2008) and a certified Data Shaping Professional (August, 2008).

Past Work Experience

August, 2009 to Present Missouri Department of Natural Resources, Division of Energy

Research Analyst III

Conducted data processing and program evaluation tasks for Missouri State Energy Office.

Reviewed Integrated Resource Plan and rate case submissions for regulated electric and gas utilities. Published power plant energy production and emissions data on MDNR website.

Reviewed and commented on Demand Side Management and Energy Efficiency policies for the State of Missouri.

August, 2008 to December, 2009 What Works Clearing House, Mathematica Policy Research, Inc.

Reviewer

June, 2005 to April, 2009 Optimal Solutions Group

Senior Data Analyst

1997-2005 Office of Social and Economic Data Analysis, University of Missouri

1999 - 2005 Project Coordinator, eMINTS Evaluation Project

1997 - 1999 Research Associate

1992-1997 Smithsonian Institution Institutional Studies Office

Social Science Analyst

Representative Papers and Publications

Bickford, A. 2005. Analysis of 2004 MAP Results for eMINTS Students. Columbia, Missouri: Office of Social and Economic Data Analysis, University of Missouri, 2005.

Bickford, A. 2004. An Investigation into Selection Bias in FY02 eMINTS Schools. Columbia, Missouri: Office of Social and Economic Data Analysis, University of Missouri, 2004.

Bickford, A.. 2002. "Museum Visits, Education and Topic Interest." *Curator: The Museum Journal* 44: 274-295.

Bickford, A.. 2002. Results from the DESE Special Education Parent Questionnaire. Columbia, Missouri: Office of Social and Economic Data Analysis, University of Missouri, 2002.

Jamtgaard, K. and A. Bickford. 2000. Missouri Education in the 1990s: Student Achievement, Population Change and School Finance. Kansas City: Ewing Marion Kauffman Foundation, 2000.

Bickford, A. and D. S. Massey. 1990. Segregation in the Second Ghetto: Racial and Ethnic Segregation in American Public Housing, 1977. *Social Forces*, 69: 1011-1036.

Representative Presentations

Using Administrative Data in the eMINTS Evaluation. Paper presented to the National Center for Educational Statistics Summer Data Conference. Washington D.C. August 2002.

Missouri Department of Elementary and Secondary Education Instructional Technology Survey. Paper presented to the Missouri Department of Elementary and Secondary Education Fall Technology Conference. Osage Beach, Missouri. September 1999.

Beyond Education: Topic Interest and Museum Visitation. Paper presented to the Visitor Studies Association Annual Conference. Birmingham, Alabama. April 1997.

Materials from the Ocean Planet Evaluation at the National Museum of Natural History. Paper presented to the American Association of Museums Annual Meetings. *Exhibitions for Saving the Planet* Session. Minneapolis, Minnesota. May 1996.

Method Choice in Museum Studies. Paper presented at the Sociology of Culture Roundtable on Meaning and Methods, American Sociological Association Annual Meetings. Washington D.C. August 1995.

Museum Attendance and Diversity: Implications from Research. Chair of Session presented to the American Association of Museums Annual Meetings. Philadelphia, Pennsylvania. May 1995.

The Smithsonian Audience: Demographic Profiles of Smithsonian Visitors from Institutional Studies Office Exhibit, Public Program and Membership Data Files, 1987-1993. Paper presented at the Sociology of Culture Roundtable on Multiculturalism, American Sociological Association Annual Meetings. Miami, Florida. August 1993.