MANSOUR FAHIMI, PH.D.

SUMMARY OF PROFESSIONAL EXPERIENCE:

With over 20 years of experience in survey research methods, Dr. Mansour Fahimi is the Vice President of Statistical Research Services at Marketing Systems Group. Mansour works on design and administration of complex surveys; is keenly familiar with sampling techniques; and has years of experience with postsurvey procedures including nonresponse bias analysis, imputation of missing data, computation of survey weights, and methods for variance estimation. He has extensive experience with data analysis involving multivariate techniques, time series, nonparametric methods, experimental designs, as well as procedures for analysis of data from complex surveys. Dr. Fahimi has been involved with the design and implementation of dozens of market research projects for which he has developed effective methods for identification of key drivers of customer satisfaction, demand projections, as well as consumer segmentation applications.

Moreover, Dr. Fahimi has been responsible for development of algorithms for integration of surveys and controlled selection, multidimensional distribution matching, and model-based procedures for imputation of missing data. Relying on nonlinear optimization techniques, Mansour has developed innovative methods for minimal sampling and using multivariate procedures he has devised effective techniques for segmentation applications. Using latent class analysis techniques he has developed regression-based procedures that are robust in the presence of heavy multicollinearity. As an adjutant professor Dr. Fahimi teaches courses in statistics while working as a consultant on tasks that involve research design, data analysis, statistical modeling, and workshops on techniques for enhancing data quality through minimization of the total survey error.

EDUCATION:

➢ Ph.D., Applied Statistics, University of New Mexico, Albuquerque, NM, 1989.

➢ M.S., Applied Statistics, University of New Mexico, Albuquerque, NM, 1986.

➢ B.S., Psychology and Mathematics, University of New Mexico, Albuquerque, NM, 1983.

PROFESSIONAL EXPERIENCE:

➢ 2008 to Date: Marketing Systems Group, MD – Vice president, Statistical Research Services

➢ 2002 to 2007:   RTI International, Rockville, MD – Senior Research Statistician

➢ 1999 to 2002:   PricewaterhouseCoopers LLP, Bethesda, MD – Principal Consultant

➢ 1995 to 1999:   Opinion Research Corporation International – Director of Sampling and Statistics

➢ 1990 to 1995:   Westat, Inc., Rockville, MD – Senior Statistician

SELECTED PROJECT EXPERIENCE:

Dual-Frame RDD Sampling in the 21st Century (2010 – Present)*: VP, Statistical Research Services*. The traditional method of RDD has evolved to include both landline and cellular telephone numbers. However, current application of the resulting dual-frame RDD methodology is subject to inconsistent practices for sample selection and survey weight construction. Is developing techniques for determining the optimal sample mixture as well as proper methods for computation of survey weights. This involves estimation of counts of households that use only cellular services for every single county in the US. Results of this survey were presented at the 2011 AAPOR Meetings in Miami, FL.

Statistical Modeling for Manpower Requirements (2008 to Present): *Senior Consultant.* The Federal Aviation Administration conducts empirical studies to examine its staffing requirements at all Control Towers and Terminal Radar Approach Control sites throughout the nation. Using statistical modeling techniques that rely on observed data from a sample of sites, the staffing requirements are simulated to ensure adequate manpower at each site. Provides statistical oversight for a series of activities, including selection of sites for observation and application of latest techniques in statistical modeling techniques for projection of staffing needs.

Evaluation of the IRS Wage & Investment Customer Satisfaction Surveys (2009 – 2010): *Survey Research Scientist*. The IRS tracks taxpayer service expectations and the extent to which they are being met by conducting a series of satisfaction surveys of the taxpayers/preparers. Was responsible for a comprehensive evaluation of 24 such surveys with respect to sample and questionnaire designs, data collection practices, as well as methods used for analysis and reporting of the resulting survey data. While identifying improvement opportunities on a wide range of topics, developed a set of best practices for conducting customer satisfaction surveys that can result in measurable improvements.

Audit Samplings & Estimation of Exception Rates (2008 to 2008): *Chief Statistician*. The U.S. Department of Veterans Affairs conducts annual audits of various sites within the Veterans Integrated Service Networks (VISNs). Was responsible for selection of statistical samples of capitalized items for inspection and production of estimates for rates of exceptions. The resulting estimates were then aggregated to produce VISN and overall level projections by taking into account disproportionate selection probabilities. Estimates of sampling error (variance of estimation) were generated to allow construction of confidence intervals for each VISN and overall.

Estimation of Relevance of Epilepsy in the District of Columbia (2008 – 2009): *Senior Research Advisor*. Using address-based sampling, designed a survey to develop prevalence estimates of epilepsy, overall and among African Americans and Hispanic children and adults in the District of Columbia. Responsible for all statistical tasks of this survey, for which a multi-mode method of data collection was used for this landmark survey. Results of this survey were presented at the 2009 Joint Statistical Meetings in Washington D.C.

Examination of the Effects of Hurricane Katrina in New Orleans (2007 to 2008): *Senior Research Advisor*. Given the displaced population resulting from the Hurricane Katrina, designed an address-based sample survey for the residents of New Orleans that employed different methods of data collection. Due to the absence of reliable estimates for the target population, developed a complex weighting technique to account for frame undercoverage and differential nonresponse encountered during this survey. Results of this survey were presented at the 2008 AAPOR Meetings in New Orleans, LA.

Behavioral Risk Factor Surveillance System (BRFSS) (2003 to 2006): *Expert Panel Member*. Investigated opportunities for methodological improvements of the BRFSS, including design and implementation of a comprehensive procedure for imputation of missing data and development of a multidimensional weighting procedure. This is one the key research studies responsible for the recent revision of the weighting methodology for the BRFSS, replacing its dated poststratification adjustment with a sophisticated raking procedure. Results of this research were presented at the 2007 Joint Statistical Meetings in Salt Lake City, UT.

Data Quality Assessment for National Surveys (2006 to 2007): *Senior Research Statistician*. Evaluated the quality of the Behavioral Risk Factor Surveillance System survey data by comparing national estimates obtained from this survey with estimates from the National Health Interview Survey, the National Health and Nutrition Examination Survey, and the National Survey on Drug Use and Health. Various survey estimates were compared across the four surveys using design-proper tests of significance.

Data Validation & Verification Workshop (2005): *Senior Research Statistician*. As part of a cooperative agreement with the U.S. Agency for International Development, conducted workshops for the Academy for Educational Planning and Management in Islamabad. Topics included methods on data validation and verification procedures, as well as data-enhancing procedures, including imputation of missing data and calculation of survey weights.

ED Data II - National Survey of Schools in Pakistan (2005): *Senior Research Statistician*. In support of the USAID, conducted a national survey of schools and educational institutions in Pakistan. Was responsible for all statistical activities of this project, for which traveled to Pakistan on two occasions to oversee the process of data collection and to conduct workshops on data validation and verification procedures.

Local Governance Project in Iraq (2003): *Senior Research Advisor*. As part of the reconstruction effort in Iraq, conducted surveys of Iraqi households and establishments for monitoring and evaluation purposes. Served as the senior advisor for the team responsible for implementation of these surveys throughout Iraq. During visits to Baghdad, has provided consultations on various survey topics, including sample and questionnaire designs, data collection techniques, and postsurvey data enhancement procedures.

National Study of Postsecondary Faculty (NSOPF) (2002): *Task Leader*. For this study of postsecondary faculty and instructional staff for the National Center for Education Statistics (NCES), served as senior statistician with responsibilities that include sample design and sample selection, design and analysis of an experiment on efficacy of incentives, and a host of postsurvey analytical activities, such as imputation of missing data, weighting, and variance estimation.

Financial Audit for the Social Security Administration (SSA) (2000 to 2001): *Technical Reviewer*. Was responsible for the methodological evaluation of the Title II, Title XVI, CQA, CP, and CD review procedures. This evaluation entailed detailed examination of various sampling and estimation methodologies, assessment of profiling algorithms used for effective allocation of resources for in-person medical evaluation of disabled beneficiaries, and their associated quality control steps.

Customer Satisfaction Survey for the Immigration and Naturalization Service (1999 to 2001): *Project Manager*. This longitudinal survey measured the satisfaction of customers who call the Immigration and Naturalization Service customer service line. The results of the survey improve performance and identify future service options for its customers. Managed the team responsible for questionnaire development, data collection, data analysis, and generation of reports. Introducing advanced analytical techniques that made it possible to obtain more actionable results from the survey findings for INS.

Customer Satisfaction Survey for the General Services Administration (2000 to 2001): *Project Manager*. To help the GSA establish goals and performance measures, this mail survey of food service facilities used modern market research techniques to identify key drivers of customer satisfaction/dissatisfaction. Managed the research staff responsible for questionnaire development, administration of surveys, data processing and analysis, and development reports.

Due Diligence for the 2000 Presidential Election in Venezuela (1999 to 2000): *Technical Advisor*. Working for the Carter Center, had the responsibility of developing a validation procedure for the 2000 Presidential Election in Venezuela, whereby allowing independent observers to uncover suspicious election outcomes. As an expert in audit sampling, was in charge of providing independent prediction of the election results.

Dominican Republic: Due Diligence for the 2000 National Elections (1999 to 2000): *Senior Statistical Advisor*. Was responsible for estimating the prevalence of various errors in the national list of voters (*Padron*) for the 2000 Presidential Election in the Dominican Republic. The results were used to implement remedial measures to compensate for observed deficiencies in the *Padron* prior to the election.

Dominican Republic: Market Assessment (1999 to 2000): *Senior Statistical Advisor*. Was responsible for design and implementation of a national survey to estimate market share and indentify key drivers of satisfaction for customers. Also, conducted workshops on best practices for survey design, data collection, and analysis of data for population-based studies in the Dominican Republic.

Audit Sampling for the Public and Private Sectors (1999 to 2000): *Senior Statistical Advisor*. Designed audit procedures for both public and private-sector clients, for which led sampling and estimation tasks, derived population projections, and conducted hypothesis tests to determine reportable conditions. Clients include the USDJ, the USDA, the USMS, the UST, and the Chrysler Corporation. Developed customized software for optimal sample selection that minimize required samples and perform the subsequent extrapolations.

Survey of Information Technology Innovation (1999 to 2002): *Statistical Consultant*. The National Science Foundation conducted two linked surveys of businesses to determine how they plan for innovation, changes in products, enhancements to their systems, and their need to stay current and competitive. As a statistical consultant, was responsible for the development of the sampling designs and supervision of statistical estimation efforts, including calculations of sampling weights and estimation of sampling errors.

Health Care 2010 Survey (2000 to 2001): *Technical Consultant*. As part of a PwC report on health care in 2010 in the US and Europe, this survey gathered data from business executives across different industries on the drivers of change in the health care industry. Managed the team responsible for questionnaire design and pre-testing, collection of data via telephone, and data processing.

Sherman & Sterling: Upward Feedback Survey (1999 to 2001): *Project Manager*. Sherman & Sterling is a large international law firm that conducts annual surveys among its staff. Managed the research team responsible for all phases of this study, including development of questionnaires, data collection via mail, analysis of the resulting data, and production of various reports.

U.S. Postal Service (USPS): Mystery Caller (1997 to 1999): *Technical Advisor*. To obtain an unbiased read of the knowledge and courtesy of USPS clerks, a complex survey design was developed whereby each of the 85 postal districts would receive 250 calls from mystery shoppers presumed to be USPS customers. Was responsible for the design, development, and implementation of the required quarterly samples for this large program, results of which were used for rating postal districts and clerks.

IBM: Business Partner Satisfaction Survey (1998 to 1999): *Survey Specialist*. Business partners and competitors of IBM in various countries were surveyed to determine their satisfaction with IBM. Was in charge of the sample design for this study, which required complex stratification by various attributes. Subsequently, was responsible for imputation of missing data and construction of survey weights.

Master Card: Estimation of Credit Card Usage (1997 to 1998): *Survey Specialist*. This survey was conducted in nine countries for estimation of credit card prevalence using both telephone and in-person methods for data collection. Was responsible for the sample design using a dual frame methodology. The corresponding survey data were weighted using the failed-screener approach to produce unbiased estimates of usage.

Catholic Hospitals: Patients Satisfaction Survey (1997 to 1999): *Survey Specialist*. To assess the satisfaction of inpatients and outpatients of a number of Catholic hospitals, a complex database of patients was developed for selection of patients on a continuous basis. Was in charge of the sample design and estimation procedures for this study, which was then replicated across a number of newly participating hospitals in a subsequent year.

Due Diligence for Demand Survey of Mobile Handsets (1997 to 1998): *Survey Specialist*. For this survey, which was conducted in several countries by the Gallup Organization, was in charge of the evaluation of the employed sampling and estimation procedures. Survey administration included various modes of data collection to accommodate survey obstacles in underdeveloped countries. Developed composite estimation techniques for robust estimation of sensitive metrics.

U.S. Department of Transportation: Survey of Motorists (1997 to 1998): *Survey Specialist*. This national study involved survey of some motorists on various highway safety issues. To obtain representative data for all motorists in the country, the survey required a special RDD design whereby basic demographic data were gathered from all contacted adults (eligible or otherwise). Subsequently, estimates of the eligible population were produced for weighting of the survey data via iterative proportional fitting. Was in charge of the sample design and selection, construction of survey weights, as well as analytical procedures for estimation of study metrics.

Market Research Studies (1996 to 1999): *Survey Specialist*. As the Director of Sampling and Statistics at the Opinion Research Corporation International, was responsible for the sampling designs of dozens of market research studies. These engagements assessed corporate image and equity and customer satisfaction and retention and provided market assessments, product testing, and demand forecasting. Beyond sampling design, served as the resident expert on research estimation issues while managing a team responsible for the procurement and processing of all needed samples for national and international studies.

California Baseline Survey on Smoking and Tobacco Use (1994 to 1996): *Senior Statistician*. This study for the State of California involved a telephone survey of more than 35,000 households. Was responsible for the sample design, imputation of missing data, computation of sample weights, and approximation of sampling errors. The sampling errors were estimated using repeated replication techniques, while sample weight computation involved complex iterative proportional fitting procedures.

Youth Attitude Tracking Study (YATS) III (1993 to 1996): *Senior Statistician*. This study of youth values for the Defense Manpower Data Center involved an annual survey of more than 65,000 households nationwide. Was in charge of the sample designs, computation of sampling weights, and approximation of sampling errors for the 1990 to 1992 administrations of YATS III. Taking into account the complexities of the sample design, weighting procedures involved imputation of missing data and poststratification adjustments.

California Follow-on Survey on Smoking and Tobacco Use (1994 to 1996): *Senior Statistician.* Was responsible for the sample design, imputation of missing data, computation of sample weights, and approximation of sampling errors for this follow-on study of more than 10,000 households in the State of California. This research included a longitudinal panel of 10,000 respondents from those individuals surveyed during the baseline study.

Evaluation of Alternative Measures of Size for Sampling (1994 to 1995): *Senior Statistician.* Since the start of the National Health Interview Survey (NHIS) primary sampling units (PSUs) have been selected with probabilities proportional to the total population, thereby ignoring the interaction of demographic composition with the type of desired oversampling. For a simulation study, investigated various schemes for allocation of measures of size for PSUs that do reflect the above interaction with different types of desired oversampling applications.

The National Assessment of Educational Progress (NAEP) (1991 to 1994): *Senior Statistician.* For this national survey on the educational attainment of students for the U.S. Department of Education, was responsible for the nonresponse bias analysis and subsequent data adjustment procedures. Had similar responsibilities for the international version of NAEP conducted in several European countries.

National Assessment of Vocational Education (1992 to 1993): *Senior Statistician.* On this study for the National Center for Educational Statistics that used Quality Education Data (QED), was responsible for the design and selection of a multistage sample. In the first stage, a highly stratified sample of school districts was selected followed by a second-stage selection of a sample of regular and vocational schools. The selection procedure involved investigation of various measures of size that required augmentation of the frame with auxiliary data.

Multivariate Test of Hypothesis for Stratified Random Samples (1994 to 1996): *Senior Statistician.* Worked at the U.S. Department of Agriculture's National Agricultural Statistics Service (NASS) with funding from an American Statistical Association fellowship. Helped to develop a multivariate test of hypothesis for stratified random samples, which was described in the "NASS-USDA Staff Report No. SRB-90." Also provided a computer program for implementation of this procedure.

Application of Linear Programming in Computational Statistics (1996 to 1998): *Ph.D. Candidate.* During this 2-year research for the National Science Foundation, studied the applications of linear programming (LP) in statistics. The optimal solution to a number of classical problems in computational statistics and survey sampling can be obtained through LP. However, these problems entail an exponentially large number of variables and constraints. Was responsible for the development of algorithms that can significantly reduce the number of induced variables and constraints.

SELECTED PUBLICATIONS AND PRESENTATIONS:

Fahimi, M. (2011). "Beyond Simple Descriptive Statistics – Utility of Multivariate Techniques in Survey Research." *Joint Statistical Meetings*, Miami, FL.

Fahimi, M., D. Malarek, and G. Holzbaur (2011). RDD Sampling in the 21st Century – Construction of a True Landline Frame. *American Association for Public Opinion Research*, Phoenix, AZ.

Fahimi, M., D. Malarek, and E. Cohen (2011). Address Based Sampling (ABS) in Puerto Rico. *American Association for Public Opinion Research*, Phoenix, AZ.

Fahimi, M. and Darryl Creel (2011). Practical Imputation of Missing Data. *American Association for Public Opinion Research*, Phoenix, AZ.

Fahimi, M., D. Malarek, P. Rappoport, K. Babyak (2010). "Constrained Estimation of Cell-Only Households by Block Group Using Sequential Calibrations." *Joint Statistical Meetings*, Vancouver Canada.

Fahimi, M., D. Kulp, and M. Brick (2009). "A reassessment of List-Assisted RDD Methodology." *Public Opinion Quarterly*, Vol. 73 (4): 751–760.

Fahimi, M. and D. Kulp (2009). "Topology of the Landline Telephone Sampling Frame." *Survey Practice*. December Issue.

Fahimi, M., B. Kroner, and A. Kenyon (2009). "Looking for a Needle in a Haystack – Estimating Epilepsy Prevalence in Washington D.C." *Joint Statistical Meetings*, Washington, DC.

Fahimi, M. (2009). "A Short Course in Address-Based Sampling – Merits, Design & Implementation, and Review of Case Studies." *American Association for Public Opinion Research*, New Orleans, LA.

Fahimi, M., B. Calfano, A. Hyon (2009). "Looking for a Needle in a Haystack – Sampling of Muslim Voters in the US." *American Association for Public Opinion Research*, New Orleans, LA.

Fahimi, M. and D. Kulp (2009). "Address-Based Sampling – Alternatives for Surveys That Require Contacts with Representative Samples of Households." *Quirk's Marketing Research Review*, May 2009.

Muth, M.K., M. Fahimi, and S.A. Karns (2009). "Analysis of Salmonella Control Performance in U.S. Young Chicken Slaughter and Pork Slaughter Establishments." *Journal of Food Protection*.

Fahimi, M., D. Currivan, J. Perez, and M. Farrelly (2008). "A Simple Strategy for Targeting Rare Subgroups in RDD Samples." *Joint Statistical Meetings*, Denver, CO.

Fahimi, M. and D. Kulp (2008). "Recent Developments in Address-based Sampling." *Washington Statistical Society*, Washington, DC.

Fahimi, M., D. Kulp, and M. Brick (2008). "Bias in RDD Sampling – A 21st Century Digital World Reassessment." *American Association for Public Opinion Research*, New Orleans, LA.

Fahimi, Mansour, M. W. Link, D. A. Schwartz, P. Levy, and A. H. Mokdad. 2008. Tracking Chronic Disease and Risk Behavior Prevalence as Survey Participation Declines. *Preventing Chronic Disease* 5 (3): 1-16.

Fahimi, M, D. Creel, and P. Levy (2007). "Evaluation of Weighting Methodology for the Behavioral Risk Factor Surveillance System." *Joint Statistical Meetings (JSM)*, Salt Lake City, UT.

Fahimi, M, D. Creel, P. Siegel, R. Johnson, and J. Chromy (2007). "Optimal Number of Replicates for Variance Estimation." *Third International Conference on Establishment Surveys (ICES-III)*, Montreal, Canada.

Fahimi, M., D. Schwartz, and L. Levy (2007). "Evaluation of the Quality of RDD Survey Estimates – A Comparison of Health Statistics from the Behavioral Risk Factor Surveillance System (BRFSS) and Other National Surveys." *American Association for Public Opinion Research*, Anaheim, CA.

Fahimi, M., K Murray, and L. Levy (2007). "Imputation of Missing Data for the Behavioral Risk Factor Surveillance System (BRFSS)." *American Association for Public Opinion Research*, Anaheim, CA.

Fahimi, M., (2006). "A Workshop on Data Validation and Verification Techniques." *Academy of Educational Planning and Management*, Islamabad, Pakistan.

Creel D. and M. Fahimi (2005). "Multidimensional Control Totals for Poststratified Weights." *Proceedings of the American Statistical Association, Survey Research Methods Section*, Minneapolis, MN.

Ault K. and M. Fahimi (2005). "Measuring and Reducing Inconsistency among Questionnaire Items through Imputation: An Application to the NSOPF." *Proceedings of the American Statistical Association, Survey Research Methods Section*, Minneapolis, MN.

Fahimi, M., J. Chromy, and W. Whitmore (2004). "Efficacy of Incentives in Increasing Response Rates." *Proceedings of the 6th International Conference on Social Science Methodology*, Amsterdam, Netherlands.

Fahimi, M., L. Trofimovich, P. Levy, and H.E. Wells (2004). "An Assessment of Interrupted Telephone Service Adjustment in RDD Telephone Surveys." *Proceedings of the American Statistical Association, Survey Research Methods Section*, Toronto, Canada.

Fahimi, M. (1994). "*Post-stratification of Pooled Survey Data.*" *Proceedings of the American Statistical Association, Survey Research Methods Section*, Toronto, Canada.

Fahimi, M. (1993). "A Size Reduction Technique for a Class of Linear Programming Problems." *Journal of Science and Technology*, Vol. 17, No. 2, pp. 133-143.

Fahimi, M., D. Maklan, D. Morganstein, and M. Wilson (1993). "A Study of Panel Effects in Random Digit Dialing (RDD) Surveys." *Proceedings of the American Statistical Association, Section on Survey Research*, San Francisco, CA.

Fahimi, M., D. Judkins, M. Khare, and T. Ezzati (1993). "Serial Imputation of NHANES III with Mixed Regression and Hot-Deck Techniques." *Proceedings of the American Statistical Association, Section of Survey Research*, San Francisco, CA.

Fahimi, M., and K.P. Pramod (1992). "Optimization Methods for Integration of Surveys and Controlled Selection." *Institute of Mathematical Statistics*, Vol. 17, pp. 208-224.

Fahimi, M., and D. Judkins (1992). "Regression Imputation Methods." *Proceedings of the American Statistical Association, Section on Survey Research*, Boston, MA.

Fahimi, M., and D. Judkins (1991). "PSU Probabilities Given Differential Sampling at the Second Stage." *Proceedings of the American Statistical Association, Section of Survey Research*, Atlanta, GA.

SELECTED TECHNICAL REPORTS:

Cates, S.C., M.K. Muth, M.C. Coglaiti, M. Fahimi, J.W. Franklin, S.A. Karns, S. Koontz, K.M. Kosa, J. Lawrence, Y. Li, N.R. Paoli, R.J. Squires, J.L. Taylor, and C.L. Viator (2007). "GIPSA Livestock and Meat Marketing Study, Volume 2. Data Collection Methods and Results."

Frechtlingv D. C., M. Fahimi, and S. Meis. "Evaluation of the DKSA System for Estimating U.S. Visitor Volumes, Characteristics and Expenditures, November, 2007.

Heuer, R., B. Kuhr, M. Fahimi, T.R. Curtin, M. Hinsdale, L. Carley-Baxter, and P. Green (2006). "2004 National Study of Postsecondary Faculty (NSOPF:04) Methodology Report" (Publication No. NCES 2006179). U.S. Department of Education, National Center for Education Statistics. (http://nces.ed.gov/pubsearch/).

Fahimi, M., E.F. Cataldi, M.E. Bradburn, and L. Zimbler (2005). "2004 National Study of Postsecondary Faculty (NSOPF:04) Background Characteristics, Work Activities, and Compensation of Instructional Faculty and Staff: Fall 2003. E.D. TAB" (N/A:2006-176). U.S. Department of Education, National Center for Education Statistics.

Heuer, R.E., M. Cahalan, M. Fahimi, J.L. Curry-Tucker, L. Carley-Baxter, T.R. Curtin, M. Hinsdale, D.M. Jewell, B.D. Kuhr, and L. McLean (2004). "2004 National Study of Postsecondary Faculty (NSOPF:04) Field Test Methodology Report" (Publication No. NCES 200401). Washington, DC: U.S. Department of Education, National Center for Education Statistics. (http://nces.ed.gov/pubsearch/).

Ault, K., S. Black, J. Chromy, M. Fahimi, P. Siegel, L. Trofimovich, and R. Whitmore (2003). "Imputation Methodology for the National Postsecondary Student Aid Study: 2004" (Publication No. NCES 200320). U.S. Department of Education, National Center for Education Statistics. (http://nces.ed.gov/pubsearch/).