NANCY COLLINS

Summary of Professional Experience

As a senior statistician at Activate, Nancy Collins, M.A., serves as a critical team member on the Annual Reports Program Support - Education Statistics Services Institute Network (ESSIN) Task 7. Ms. Collins develops statistical tables for various National Center for Education Statistics (NCES) annual publications, including the *Condition of Education* and the *Digest of Education Statistics*. Additionally, she provides programming support to the team providing United States estimates to the Organization for Economic Co-operation and Development (OECD) for use with the publication, *Education at a Glance Report*, and additional special international reports. With over 25 years of statistical programming experience, Ms. Collins' work ranges from producing point and standard error estimates based on client-provided table specifications to developing imputation procedures for missing data to producing complex multivariate statistical models. Prior to Activate, Ms. Collins worked as an independent contractor with the American Institutes for Research, conducted research for the Institute for Women's Policy Research, and served as a mathematical statistician with the Statistics of Income division of the Internal Revenue Service.

Work History

Activate Research, Inc., *Senior Statistician*	2014 – present
Independent Contractor, *Statistician/Programmer*	2010 – 2013
NJC Designs, *Sole Proprietor*	2008 – 2010
University of Michigan, Ann Arbor, *Research Assistant*	2000 – 2003

Education

M.A., Sociology, The University of Michigan, Ann Arbor, MI, 1996
B.A., Mathematics, The Catholic University of America, Washington, DC, 1988

Selected Project Experience

Title: Current Population Survey (CPS), School Enrollment Supplement – Annual Reports
Client: U.S. Department of Education, National Center for Education Statistics
Role: Statistician/Programmer
Period of Performance: 2006 – present

Responsible for creating and documenting a subset of the October CPS which includes relevant education, demographic and employment items plus constructed variables useful to NCES. Also responsible for *Condition of Education* (*COE*) and *Digest of Education* (*Digest*) tables using the October CPS data sets focus on employment status, poverty levels, parental education, family income, computer and internet use, educational attainment and school enrollment.

Title: CPS, Annual Social and Economic Supplement– Annual Reports
Client: U.S. Department of Education, National Center for Education Statistics
Role: Statistician/Programmer
Period of Performance: 2006 – present

Responsible for creating and documenting a subset of the March CPS which includes relevant education, demographic and employment useful to NCES. Also responsible for *COE* and *Digest* tables using the March CPS data sets focus on employment status, poverty levels, parental education, family income, and educational attainment.

Title: 2014 Education at a Glance Program for the International Assessment of Adult Competencies (PIACC) Tables
Client: U.S. Department of Education, National Center for Education Statistics
Role: Statistician/Programmer
Period of Performance: Jan 2017 – Nov 2017

Created detailed SAS programs which the OECD could use to produce tables for the 2014 *Education at a Glance* using the restricted-use PIACC data. These tables were compared to their own estimates in order to determine any coding or definitional errors. Rather than using the macros provided by the OECD to analyze the data, the programs independently incorporated multiple imputation techniques which provided verification that the OECD macros were correctly working. Provided the estimates and formatted tables which included suppression symbols that were automatically created and saved to Excel files along with the raw estimates and sample sizes.

Title: School Surveys on Crime and Safety (SSOCS)
Client: U.S. Department of Education, National Center for Education Statistics
Role: Statistician/Programmer
Period of Performance: November 2016 – January 2017

Performed statistical replication for all of the tables included in the report entitled, *Crime, Violence, Discipline, and Safety in U.S. Public Schools Findings From the SSOCS: 2015-2016 First Look.*

Selected Publications and Presentations

Molefe, A., Burke, M. R., Collins, N., Sparks, D., & Hoyer, K. (2017). *Postsecondary educational expectations and attainment for rural and nonrural students* (REL 2017). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory Midwest.

Wilde, P. E., Hofferth, S., Stanhope, S., Noonan, M., & Collins, N. (2000). Pre-1997 trends in welfare and food assistance in a national sample of families. *American Journal of Agricultural Economics, 82*.

Hofferth, S. & Collins, N. (2000). Child care and employment turnover. *Population Research and Policy Review, 19*.

Hartmann, H., Spalter-Roth, R., & Collins, N. (1994). What do unions do for women? In Friedman, S., Hurd, R. W., Oswald, R. A., & Seeber, R. L. (Eds.), *Restoring the promise of American labor law*. New York, NY: ILR Press.