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#### EXPERTISE

- Secondary longitudinal studies
- High school transcript data
- High school course taxonomies
- Postsecondary transcript data
- Analysis of secondary experiences
- Analysis of postsecondary pathways

#### EDUCATION

- BS, Computer Science with Math minor, Minnesota State University – Mankato, 1982
- AA, Liberal Arts, Rochester Community College 1982

#### EXPERIENCE

- Senior researcher with over 30 years of experience working with the National Center for Education Statistics (NCES) providing research analysis and data review of all their secondary longitudinal studies
- Provides analysis support for major NCES publications, department special requests, and figures for outside organizations
- Contributes to the design of file structures and layouts used to store migrated data from data collection instruments and outside source data in a manner that facilitates data processing for data users
- Ensures quality of restricted- and public-use NCES data sets, data tool products, and documents by reviewing for accuracy, consistency with previous studies and study focuses, adherence to NCES standards, and usability for users
- Develops user training material for some secondary longitudinal studies; attends study design Technical Review Panel (TRP) conferences; provides support for responses related to user questions about study data

#### LANGUAGES

- Language–English

#### Professional Experience

##### ***American Institutes for Research (AIR), Arlington, VA (2023–2025) Senior Data Analyst***

##### **Institute of Education (IES) Procurement of Research and Statistics Task Order (PRESTO) Longitudinal Studies Branch Support Contract (2023–2025)**

Provided data analytic support for the NCES high school and postsecondary longitudinal studies. Work draws upon extensive experience with high school and postsecondary data files to ensure high quality data releases. Responsible for answering data user questions for high school and postsecondary studies and performing ad hoc data requests from client.

##### **Institute of Education (IES) Procurement of Research and Statistics Task Order (PRESTO) OESE Data Management Contract (2024–2024)**

Provided data analytic figures for the Title II Part A Funds Report using data collected from districts and states.

##### ***Synergy Enterprises Inc, North Bethesda, MD (2022–2022) Principal Data Analyst, Quick Turnaround Request (QTR) expert task***

Lead data reviewer of the High School Longitudinal Study (HSLs) Postsecondary Education Administrative Records (PEAR) data collection, responsible for documenting comments on student level file composite variables and detail data found in the PEAR student attendance and degree files. This review was done to identify data issues and make suggestions that added quality to created composite variables and make the data easier for users to analyze.

##### ***Sanamatrix Inc., Arlington, VA (2013–2022) Senior Analyst, Education Statistics Services Institute Network (ESSIN) Task 4 Secondary Longitudinal Studies Support Task Order***

Provided technical and analytical support to the NCES Project Officer of Education Longitudinal Study (ELS) of 2002 and HSLs:2009 secondary longitudinal studies. Participated in technical review panels and weekly conference calls on data collections for the ELS:2002, HSLs:2009, and High School and Beyond (HS&B) 2022

studies. Under department guidelines, worked independently in review of the study data collected that included all response data, both high school and postsecondary transcripts, and outside source data. Contributed to design of file structure and layouts used to store migrated data from collection instruments and outside source data. Suggested file physical flags that made processing of detail data easier for users to perform their analyses. Provided review and comments of study constructed variables, the program logic and documentation used to create them. Reviewed imputation methodologies and created values. Checked the sets of study data point weights. Performed review of user manual draft documentation and training materials. Did final reviews on both study restricted and public use files, data tool products, and documents for study releases. All reviews performed with attention to detail, consistency with previous studies and study focuses, the adherence to NCES standards, and friendliness to all levels of users. Completed requested data analysis providing table figures and standard errors for publications and helped respond to user questions, using current and older secondary longitudinal studies (NLS:72, HS&B:80, and NELS:88).

***National Institute of Statistical Sciences, Research Triangle Park, NC (2012) Senior Research Analyst, U.S. Department of Education, NCES Contract***

Worked with the complete set of all 1980-1992 HS&B:80 sophomore cohort longitudinal data files. Performed data cleansing and file reformation, to produce a single product containing all collected data. The purpose of this effort was to correct known issues with previous release files and produce a single product, in a format that was more user friendly.

***Kforce Government Solutions, Fairfax, VA (1991–2012) Senior Research Analyst, Education Statistics Services Institute (ESSI) Contract***

Provided technical and analytical support to the NCES Project Officer of NELS:88 and ELS:02 secondary longitudinal studies for each of the study data point life cycles and importing data into an Electronic Codebook (ECB) data tool. Performed analysis for department publications, which included working with multiple high school course taxonomy definitions. Developed user training materials and provided responses to user questions.

***Computer Data Systems, Inc., Pax River, MD (1990–1991) Senior Systems Engineer, Navy contract***

Naval Industrial Material Management System (NIMMS) software maintenance (1990-1991) Maintained and enhanced the NIMMS software. Team leader for quality assurance of technical changes made to NIMMS programs. Validated database navigation paths to ensure data integrity. Performed production support of the NIMMS software at six sites.

***Mantech Services Inc., Pax River, MD (1987-1990) Programmer Analyst, Navy contract***

Assisted in the development of the Flight Information Recording Monitoring System (FIRMS). Developed a logical data model using Information Engineering/System Corporation (IESC) methodologies, for implementation into an IDMS network database. Performed development and maintenance of the Navy Aircraft Component Tracking System (COMTRAK) in an IDMS database environment.

### ***Pinkerton Computer Consultants, Pax River, MD (1991–1987)***

#### ***Junior Programmer, Agency for International Development (1986-1987)***

Maintained the PPC/SRD statistics, the Economic and Social Database System, and Commodity statistics systems. Received Cullinet IDMS training for A.I.D. system conversions.

#### ***Computer Specialist, Navy contract (1983-1986)***

Developed on-line and batch programs and performed program maintenance on the existing Support Equipment Resources Management Information System (SERMIS). Participated in the structured design of the Naval Air Rework Facilities database for the Workload Control System (WCS). Worked with a senior DBA producing logical and physical database models and maintained the WCS data definition language applications.

### **Security Clearance and Certifications**

NBIS Confidential clearance

Federal government Cybersecurity and Privacy Awareness training

Cullinet IDMS training

### **References**

Available upon request

### **Selected Publications**

Christopher, E., & **Daniel, B.** (2022). *Early postsecondary education and work outcome differences by high school credential type (HSLs:09) (NCES 2022-053)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2022053>

Christopher, E., & **Daniel, B.** (2022). *Arts credits earned in high school and postsecondary enrollment: Differences by background characteristics (HSLs:09) (NCES 2021-006)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2021006>

Hampden-Thompson, G., Warkentien, S., & **Daniel, B.** (2009). *Course Credit Accrual and Dropping Out of High School, by Student Characteristics (ELS:02-NAEP HSTS 2004) (NCES 2009-035)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2009035>

Bozick, R., & Ingels, S. Acknowledgement **Daniel, B.** (2008). *Mathematics Coursetaking and Achievement at the End of High School (ELS:02) (NCES 2008-319)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2008319>

Planty, M., Provasnik, S., & **Daniel, B.** (2007). *Findings from the Condition of Education 2007: High School Coursetaking (ELS:02-NELS:88-HS&B:80-NAEP HSTS 1987, 1990, 1994, 1998, 2000) (NCES 2007-065)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2007065>

- Cahalan, M., Ingels, S., Burns, L., Planty, M., & **Daniel, B.** (2006). *United States High School Sophomores: -A Twenty-Two Year Comparison, 1980-2002 (ELS:02-NELS:88-HS&B:80) (NCES 2006-327)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2006327>
- Owings, J., Madigan, T., & **Daniel, B.** (1998). *Who goes to America's Highly Ranked "National" Universities (NELS:88) (NCES 1998-095)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=98095>
- Owings, J., Burton, B., & **Daniel, B.** (1997). *Who Reports Participation in Varsity Inter-Collegiate Sports at 4-Yr Colleges? (NELS:88) (NCES 1997-911)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=97911>
- Owings, J., McMillen, M., & **Daniel, B.** (1995). *Who Can Play? An Examination of NCAA's Proposition 16 (NELS:88) (NCES 1995-763)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=95763>
- Ralph, J., Colopy, K., McRae, C., & **Daniel, B.** (1995). *Gangs and Victimization at School (Education Policy Issues: -Statistical Perspectives)(School Safety and Discipline Survey within NHES:93, School Crime Supplement within NCVS:89, NCVS: 93) (NCES 1995-704)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=95740>
- Owings, J., McMillen, M., Burkett, J., & **Daniel, B.** (1995). *Making the Cut: -Who Meets Highly Selective College Entrance Criteria? (NELS:88) (NCES 1995-732)*. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=95732>