

UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF COLUMBIA

COMMON CAUSE, *et al.*,

Plaintiffs,

v.

DONALD J. TRUMP, in his official capacity as
President of the United States, *et al.*,

Defendants.

Civil Action No. 1:20–cv–02023–CRC

Declaration of John M. Abowd, Ph.D.

I, John M. Abowd, make the following Declaration pursuant to 28 U.S.C. § 1746, and state that under penalty of perjury the following is true and correct to the best of my knowledge and belief:

1. I am the Chief Scientist and Associate Director for Research and Methodology at the United States Census Bureau. I have served in that capacity since June 2016. The following statements are based on my personal knowledge or on information supplied to me in the course of my professional responsibilities. These statements are provided in support of the Defendants' motion to dismiss and in opposition to the Plaintiffs' motion for partial summary judgment, or in the alternative, expedited trial on the merits.
2. In 1977, I received my Ph.D. in economics from the University of Chicago with specializations in econometrics and labor economics. My B.A. in economics is from the University of Notre Dame.
3. I have been a university professor since 1976. My first appointment was assistant professor of economics at Princeton University. I was also assistant and associate professor of econometrics and industrial relations at the University of Chicago Graduate School of Business. In 1987, I was appointed associate professor of industrial and labor relations with indefinite tenure at Cornell University. I am currently on unpaid leave from Cornell University to work in my current position at the Census Bureau as part of the Career Senior Executive Service.
4. I am a member and fellow of the American Statistical Association, Econometric Society, and Society of Labor Economists (president 2014). I am an elected member of the International Statistical Institute. I am also a member of the American Economic Association, International Association for Official Statistics, National Association for Business Economists, American Association for Public Opinion Research, Association for Computing Machinery, American Association for the Advancement of Science, and American Association of Wine Economists. I regularly attend and present papers at the meetings of all of these organizations.
5. I have served on the American Economic Association Committee on Economic Statistics. I have also served on the National Academy of Sciences Committee on National Statistics, the Conference on Research in Income and Wealth Executive Committee, and the Bureau of Labor Statistics Technical Advisory Board for the National Longitudinal Surveys (chair: 1999-2001).
6. In 1998, the Census Bureau and Cornell University entered into the first of a sequence of Intergovernmental Personnel Act agreements and other contracts under which I served continuously as Distinguished Senior Research Fellow at the Census Bureau until I assumed my current position in 2016, under a new IPA contract. Since March 29, 2020, I have been in the Associate Director position at

the Census Bureau as a career Senior Executive Service employee. While I was a senior research fellow, I worked with numerous senior executives. This includes Directors (Martha Riche, Kenneth Prewitt, C. Louis Kincannon, Stephen Murdoch, Robert Groves, and John Thompson), Deputy Directors (Hermann Habermann, Thomas Mesenbourg, and Nancy Potok), Chief Scientists (Roderick Little and Thomas Louis), and numerous other associate directors, assistant directors, and division chiefs. I also worked with Chief Economists John Haltiwanger, J. Bradford Jensen, Daniel Weinberg, and Lucia Foster, and researchers in all program areas.

7. I was one of three senior researchers who founded the Longitudinal Employer-Household Dynamics (LEHD) program at the Census Bureau. This program produces detailed public-use statistical data on the characteristics of workers and employers in local labor markets using large-scale linked administrative, census, and survey data from many different sources. The program is acknowledged as the Census Bureau's first 21st Century data product: built to the specifications of local labor market specialists without additional survey burden and published using state-of-the-art confidentiality protection. In addition to very substantial financial support from the Census Bureau, this project was supported by a \$4.1 million grant from the National Science Foundation (NSF), on which I was the lead Principal Investigator.
8. From 2004 through 2009, I was the lead Principal Investigator on the \$3.3 million NSF-supported collaborative project with the Census Bureau to modernize secure access to confidential social science data. This project led to the first production implementation worldwide of differential privacy for OnTheMap—a product of the LEHD program. It also produced prototype confidential data access systems with public-use synthetic micro-data supported by direct analysis of the confidential data on validation servers. These projects were the precursors to the Census Bureau's current program to implement central differential privacy for all publications from the 2020 Census of Population and Housing, which will be the first large-scale production implementation worldwide.
9. From 2011 until I assumed my position as Chief Scientist at the Census Bureau in 2016, I was the Principal Investigator of the Cornell University node of the NSF-Census Research Network, one of eight such nodes that worked collaboratively with the Census Bureau and other federal statistical agencies to identify important theoretical and applied research projects of direct programmatic importance to the agencies. The Cornell node produced the fundamental science explaining the distinct roles of statistical policymakers and computer scientists in the design and implementation of differential privacy systems at statistical agencies.
10. I have published more than 100 scholarly books, monographs, and articles in the disciplines of economics, econometrics, statistics, computer science, and information science. I have been the principal investigator or co-principal investigator on 35 sponsored research projects.

11. On August 19, 2020, I signed a declaration under penalty of perjury, a copy of which is attached as Exhibit A to this declaration. I have reviewed the statements I made in that declaration and confirm that they continue to be accurate as of today's date. In particular, the Census Bureau is continuing its process of determining the appropriate methodologies and finalizing, to the extent possible, how it may exclude illegal aliens in keeping with the stated purpose of the President's July 21, 2020 *Memorandum on Excluding Illegal Aliens From the Apportionment Base Following the 2020 Census* ("the PM"), to use the data for apportionment; and the Census Bureau continues to remain consistent with best practices for a federal statistical agency.
12. I understand that certain plaintiffs in lawsuits regarding the PM have alleged that any method of implementing the PM on the part of the Census Bureau would require the use of statistical sampling in violation of federal law.
13. As the Chief Scientist and Associate Director for Research and Methodology at the United States Census Bureau, I am familiar with the statutory law regarding the use of statistical sampling in the apportionment context. In particular, I understand that, as a general matter, statistical sampling may not be used for determining the population for apportionment purposes.
14. I can confirm that any methodology or methodologies ultimately used by the Census Bureau to implement the PM will not involve the use of statistical sampling for apportionment purposes.

JOHN ABOWD

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John M. Abowd, Ph.D.
Chief Scientist and Associate Director for Research
and Methodology
Bureau of the Census

Dated: _____

Exhibit A

Declaration of John M. Abowd, Ph.D.

I, John M. Abowd, make the following Declaration pursuant to 28 U.S.C. § 1746, and state that under penalty of perjury the following is true and correct to the best of my knowledge and belief:

Qualifications

1. I am the Chief Scientist and Associate Director for Research and Methodology at the United States Census Bureau. I have served in that capacity since June 2016. The following statements are based on my personal knowledge or on information supplied to me in the course of my professional responsibilities. These statements are provided in support of the Defendants' opposition to the Plaintiffs' motion for partial summary judgment or in the alternative for a preliminary injunction.
2. In 1977, I received my Ph.D. in economics from the University of Chicago with specializations in econometrics and labor economics. My B.A. in economics is from the University of Notre Dame.
3. I have been a university professor since 1976. My first appointment was assistant professor of economics at Princeton University. I was also assistant and associate professor of econometrics and industrial relations at the University of Chicago Graduate School of Business. In 1987, I was appointed associate professor of industrial and labor relations with indefinite tenure at Cornell University. I am currently on unpaid leave from Cornell University to work in my current position at the Census Bureau as part of the Career Senior Executive Service.
4. I am a member and fellow of the American Statistical Association, Econometric Society, and Society of Labor Economists (president 2014). I am an elected member of the International Statistical Institute. I am also a member of the American Economic Association, International Association for Official Statistics, National Association for Business Economists, American Association for Public Opinion Research, Association for Computing Machinery, American Association for the Advancement of Science, and American Association of Wine Economists. I regularly attend and present papers at the meetings of all of these organizations.
5. I have served on the American Economic Association Committee on Economic Statistics. I have also served on the National Academy of Sciences Committee on National Statistics, the Conference on Research in Income and Wealth Executive Committee, and the Bureau of Labor Statistics Technical Advisory Board for the National Longitudinal Surveys (chair: 1999-2001).

Relevant professional experience

6. In 1998, the Census Bureau and Cornell University entered into the first of a sequence of IPAs and other contracts under which I served continuously as Distinguished Senior Research Fellow at the Census Bureau until I assumed my current position in 2016, under a new IPA contract. Since March 29, 2020, I have been in the Associate Director position at

the Census Bureau as a career Senior Executive Service employee. While I was a senior research fellow, I worked with numerous senior executives. This includes Directors (Martha Riche, Kenneth Prewitt, C. Louis Kincannon, Stephen Murdoch, Robert Groves, and John Thompson), Deputy Directors (Hermann Habermann, Thomas Mesenbourg, and Nancy Potok), Chief Scientists (Roderick Little and Thomas Louis), and numerous other associate directors, assistant directors, and division chiefs. I also worked with Chief Economists John Haltiwanger, J. Bradford Jensen, Daniel Weinberg, and Lucia Foster, and researchers in all program areas.

7. I was one of three senior researchers who founded the Longitudinal Employer-Household Dynamics (LEHD) program at the Census Bureau. This program produces detailed public-use statistical data on the characteristics of workers and employers in local labor markets using large-scale linked administrative, census and survey data from many different sources. The program is acknowledged as the Census Bureau's first 21st Century data product: built to the specifications of local labor market specialists without additional survey burden, and published using state-of-the-art confidentiality protection. In addition to very substantial financial support from the Census Bureau, this project was supported by a \$4.1 million grant from the National Science Foundation (NSF) on which I was the lead Principal Investigator.
8. From 2004 through 2009, I was the lead Principal Investigator on the \$3.3 million NSF-supported collaborative project with the Census Bureau to modernize secure access to confidential social science data. This project led to the first production implementation worldwide of differential privacy¹ for OnTheMap—a product of the LEHD program. It also produced prototype confidential data access systems with public-use synthetic micro-data supported by direct analysis of the confidential data on validation servers. These projects were the precursors to the Census Bureau's current program to implement central differential privacy for all publications from the 2020 Census of Population and Housing, which will be the first large-scale production implementation worldwide.
9. From 2011 until I assumed my position as Chief Scientist at the Census Bureau in 2016, I was the Principal Investigator of the Cornell University node of the NSF-Census Research Network (NCRN), one of eight such nodes that worked collaboratively with the Census Bureau and other federal statistical agencies to identify important theoretical and applied research projects of direct programmatic importance to the agencies. The Cornell node produced the fundamental science explaining the distinct roles of statistical policymakers and computer scientists in the design and implementation of differential privacy systems at statistical agencies.
10. I have published more than 100 scholarly books, monographs, and articles in the disciplines of economics, econometrics, statistics, computer science, and information science. I have been the principal investigator or co-principal investigator on 35 sponsored research projects. My full professional resume is attached to this report.

Scope of work

11. I have been asked to provide expert opinion responding to the expert report submitted in this case by Dr. Matthew H. Barreto.

Expert opinion

12. The most significant challenge to the quality of 2020 Census data is the COVID-19 pandemic. The effects of the pandemic and the multiple reprograms of the field operations of the 2020 Census make it nearly impossible to predict with any certainty whether any groups will be differentially disadvantaged in the final count. There are no natural or field experiments that speak to disruptions on this scale.
13. The Census Bureau's randomized controlled trial of a census questionnaire with and without a citizenship question, in June 2019, showed no statistically significant difference in the self-response rates with and without a citizenship question. With a sample of 480,000 housing units, capable of detecting differences as small as 0.5 percentage points (see <https://www.census.gov/programs-surveys/decennial-census/2020-census/research-testing/testing-activities/2019-census-test/2019-census-test-report.html>), this test was large-scale and properly designed to measure the differential self-response rates using the 2020 Census contact and self-response protocols. The June 2019 Census Test did not inform the question of whether overall self-response might have been lower because of the possibility of receiving a question about citizenship (the macro environment), nor did it inform the quality of the overall census procedures, including and especially non-response follow-up (NRFU).
14. An overview of the changes to the 2020 Census field and post-processing operations because of the COVID-19 pandemic and the shortened time window for the NRFU operation are detailed in the declaration of Albert E. Fontenot, Jr., Associate Director of the Decennial Census Programs for Census Bureau.
15. Pursuant to the President's July 21, 2020 *Memorandum on Excluding Illegal Aliens From the Apportionment Base Following the 2020 Census* ("the PM"), and based on information currently available to it, the Census Bureau is in the process of determining the appropriate methodologies and finalizing, to the extent possible, how it may exclude illegal aliens in keeping with the stated purpose of the PM to use the data for apportionment. At this time, the Census Bureau does not know exactly what numbers the Secretary may report to the President, and it is therefore impossible to assess precisely the effects of the PM on apportionment. The Census Bureau is remaining consistent with best practices for a federal statistical agency.

Comments on Dr. Barreto's report

16. With regard to Dr. Barreto's paragraph 14 (in which he concludes that the PM will reduce participation in the 2020 Census and reduce the accuracy of the 2020 census), paragraph 19 (in which he concludes that the PM erodes trust that many community-based organizations with experience serving immigrants built up over the past year), and paragraph 21 (in which he cites studies finding that Census participation drops in immigrant communities when federal immigration enforcement is perceived to be connected with the Census): As stated

above in paragraph 12, the most significant challenge to the quality of 2020 Census data is the COVID-19 pandemic. The effects of the pandemic and the coinciding multiple reprograms of the field operations of the 2020 Census required to adapt to the circumstances of the COVID-19 pandemic make it nearly impossible to predict with any certainty whether any groups will be differentially disadvantaged in the final count. There are no natural or field experiments that speak to disruptions on this scale. Additionally, as demonstrated in paragraph 13 above, a randomized trial of the actual protocol used would be the best evidence to properly draw any conclusions.

17. With regard to Dr. Baretto's paragraph 68, in which he references 2018 survey research that he conducted in relation to the citizenship question on the 2020 decennial, and his conclusions that participation in the Census would increase after removing any fear of immigration status being exposed: The best way to accurately develop such conclusions is to conduct a randomized trial of the actual protocol being used in the 2020 Census, as referenced in paragraph 13 above. His research failed to do this making his conclusions as set out in paragraph 68 less reliable.
18. With regard to Dr. Baretto's paragraph 77, in which he concludes that administrative records are less useful than direct responses: More field visits by enumerators are still scheduled to occur. After some number of visit attempts, the enumerator will only try to get a population count, which does not have any associated characteristics (like Hispanic ethnic origins). Such a population count does not present the same incentives to avoid responding nor to misrepresent the number of people in the household. As long as the NRFU reaches comparable levels of completeness in getting population counts for address identifiers (MAFIDs), the differential effects of administrative record linkage with respect to apportionment are controlled.
19. With respect to Dr. Baretto's paragraph 79, his assertions that the count imputation process is biased by non-ignorable non-response are speculative. In the presence of the pandemic, it is very difficult to predict which neighborhoods will have larger count imputation rates and which will have smaller ones.
20. With respect to Dr. Baretto's paragraph 81, he misuses Rubin's missing data definitions. MCAR means that no variables-measured or unmeasured can predict which units are missing. Ignorable missing data (the standard assumption used by statistical agencies) means that the observed responses can be reliably used to predict the unobserved ones. Since the observed responses are all the agency typically has (including data in the sampling frame), that is all the data it can use for imputation. Non-ignorable missing data means that some unobserved information on the non-respondents is required to accurately predict their missing responses. Such information comes from extra-survey sources. The quote from my previous testimony was taken out of context. As I have previously explained, accuracy has at least two dimensions. These are commonly called bias—the statistic's tendency to systematically overcount or undercount its target—and variance—the statistic's tendency to fluctuate around its target. Count imputation is a statistical measure not based on sampling that has both of these accuracy components. I was commenting on the variance of imputations not the bias. The Census Bureau's count imputation procedure is tested for unbiasedness before use.

JOHN ABOWD Digitally signed by JOHN
ABOWD
Date: 2020.08.19 16:15:22
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John M. Abowd, Ph.D.
Chief Scientist and Associate Director for Research
And Methodolgy
Bureau of the Census

Dated: _____

John M. Abowd

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Professional Information

[Updated July 27, 2020]

CONTACT INFORMATION

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Executive assistant Sara Sullivan: +1.301.763.5116

E-mail: john.maron.abowd@census.gov

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Fax: +1.607.255.4496

E-mail: john.abowd@cornell.edu

Webpage: <https://blogs.cornell.edu/abowd/> or <https://www.johnabowd.com>

Twitter: @john_abowd (opinions are my own)

Short biography in PDF format

CURRENT POSITIONS

Chief Scientist and Associate Director for Research and Methodology, U. S. Census Bureau June 2016

–

Edmund Ezra Day Professor, Department of Economics, Cornell University, July 2011 – currently on leave

Director, Labor Dynamics Institute, Cornell University, October 2011 – currently on leave

Founding member and Professor of Information Science (by courtesy), Faculty of Computing and Information Science, July 2000 – currently on leave

Professor of Statistics, September 2013 – currently on leave

Search ...

SEARCH

INSTITUTIONS

U.S. Census Bureau

Cornell Economics

Labor Dynamics Institute

NCRN node at Cornell

CISER

OTHER INFORMATION

Google Scholar

ORCID

RePEC/Ideas

SSRN

Member of the Graduate Fields of Economics, Industrial and Labor Relations, Information Science, and Statistics

Research Associate, National Bureau of Economic Research, 1050 Massachusetts Avenue, Cambridge, Massachusetts 02138, September 1983 – (on leave while serving at the U.S. Census Bureau)

Research Affiliate, Centre de Recherche en Economie et Statistique/INSEE, 15, bd Gabriel Péri, 92245 Malakoff Cedex France, November 1997 –

Research Fellow, IZA (Institute for the Study of Labor), P.O. Box 7240 D-53072 Bonn, Germany, June 2002 –

Research Fellow, IAB (Institut für Arbeitsmarkt-und Berufsforschung), Dienstgebäude Weddigenstraße 20-22, 90478 Nürnberg, Germany, January 2013 –

President and Principal, ACES-Research, LLC, john@aces-research.com, July 2007 –

Editor, Journal of Privacy and Confidentiality Online journal

PREVIOUS AND VISITING POSITIONS

Distinguished Senior Research Fellow, United States Census Bureau, September 1998 – May 2016

Associate Chair, Department of Economics, Cornell University, August 2015 – May 2016

Visiting Professor, Center for Labor Economics, University of California-Berkeley, August 2014 – July 2015

Director of Graduate Studies, Economics, July 2010 – June 2014

Professor of Economics and Econometrics, University of Notre Dame, January 2008 – May 2008.

Director, Cornell Institute for Social and Economic Research (CISER), July 1999 – December 2007

Associate Director, Cornell Theory Center (became Cornell University Center for Advanced Computing), September, 2006 – August 2007.

Professor of Labor Economics, Cornell University, January 1990 – October 2001.

Edmund Ezra Day Professor, School of Industrial and Labor Relations, November 2001 –

Associate Director, Cornell Institute for Social and Economic Research (CISER), July, 1998 – June, 1999.

Chair, Department of Labor Economics, Cornell University, September, 1992 – June, 1998.

Acting Director, CISER, January, 1998-June, 1998.

Professeur invité, Laboratoire de Microéconomie Appliquée-Theorie Et Applications en Microéconomie et macroéconomie (LAMIA-TEAM), Université de Paris-I (Panthéon-Sorbonne), May 1998.

Consultant, Centre de Recherche en Economie et Statistique (CREST), Institut National de la Statistique et des Etudes Economiques (INSEE), February 1997.

Professeur invité, ERMES (Equipe de Recherche sur les Marchés, l'Emploi et la Simulation) Université Panthéon-Assas (Paris II), October 1995 – July 1996 (part time).

Professor, Samuel Curtis Johnson Graduate School of Management, Cornell University (adjunct appointment), August 1987 – July 1995.

Chercheur étranger, Institut National de la Statistique et des Etudes Economiques (INSEE), Paris, Department of Research, August 1991 – July 1992, January 1993, January 1994.

Professeur visitant, HEC (Hautes Etudes Commerciales, Paris) Department of Finance and Economics, September 1991 – July 1992 and January 1993, December 1993 – January 1994.

Professeur visitant, CREST (Centre de Recherche en Statistique et Economie, Paris), September 1991 – July 1992, July 1993.

Associate Professor with tenure, Cornell University, August 1987 – December 1989.

Research Associate, Industrial Relations Section, Department of Economics, Princeton University, September 1986 – August 1987.

Visiting Associate Professor of Economics, Department of Economics, Massachusetts Institute of Technology, September 1985 – August 1986.

Associate Professor of Econometrics and Industrial Relations, Graduate School of Business, University of Chicago, September 1982 – August 1986. Assistant Professor, September 1979 – August 1982. Visiting Assistant Professor, September 1978 – August 1979.

Senior Study Director/Research Associate, NORC/Economics Research Center, 6030 Ellis Avenue, Chicago, Illinois 60637, September 1978 – August 1986.

Academic Consultant, Centre for Labour Economics, London School of Economics, January 1979 – April 1979.

Assistant Professor of Economics, Department of Economics, Princeton University, September 1977 – August 1979 (on leave September 1978 – August 1979). Lecturer in Economics, September 1976 – August 1977.

Associate Editor, *Journal of Business and Economic Statistics*, 1983 – 1989.

Editorial Board, *Journal of Applied Econometrics*, 1987 – 1989.

Associate Editor, *Journal of Econometrics*, 1987 – 1989.

EDUCATION

Ph.D. Department of Economics, University of Chicago, December 1977.

Thesis: An Econometric Model of the U.S. Market for Higher Education

M.A. Department of Economics, University of Chicago, March 1976.

A.B. Department of Economics (with highest honors), University of Notre Dame, May 1973.

LANGUAGES

English (native), French

HONORS AND FELLOWSHIPS

Julius Shiskin Award, American Statistical Association, Business and Economic Statistics Section (2016)

Cornell University, **Graduate and Professional Student Assembly Award for Excellence in Teaching, Advising, and Mentoring** (May 2015)

Fellow, *Econometric Society* (elected November 2014)

Roger Herriot Award, American Statistical Association, Government and Social Statistics Sections (2014)

Elected member, *International Statistical Institute* (March 2012)

Council of Sections (2014-2016), Chair (2013) *Business and Economic Statistics Section* (Chair-elect 2012), American Statistical Association

President (2014-2015), *Society of Labor Economists*, President-elect (2013-2014), Vice President (2011-2013)

Fellow, *The American Statistical Association* (elected August 2009)

Fellow, *Society of Labor Economists* (elected November 2006)

La bourse de haut niveau du Ministère de la Recherche et de la Technologie, fellowship for research at the Institut National de la Statistique et des Etudes Economiques (INSEE) awarded by the French Government, September 1991 – February 1992.

National Institute of mental Health postdoctoral fellow at NORC, September 1978 – August 1980.

National Institute of Mental Health pre-doctoral fellow at the University of Chicago, September 1973 – June 1976.

TEACHING EXPERIENCE

Graduate:

Microeconometrics using Linked Employer-Employee Data (CREST-ENSAE)
Understanding Social and Economic Data (Cornell, co-instructor: Lars Vilhuber)
 Third-year Research Seminar I and II (Cornell)
 Seminar in Labor Economics I, II, and III (Cornell)
Microéconometrie des Données Appariées (CREST-GENES, in French)
Microéconomie et Microéconometrie du Travail (Université de Paris I, in French)
Economie du Travail (Université de Paris II, in French)
 Economics of Compensation and Organization (Cornell)
 International Human Resource Management (Cornell)
 Corporate Finance (Hautes Etudes Commerciales, Paris)
 International Human Resource Management (HEC, Paris)
 Workshop in Labor Economics (Cornell)
 Economics of Collective Bargaining (Cornell)
 Executive Compensation (Cornell)
 Labor Economics (MIT)
 Labor and Public Policy (MIT)
 Applied Econometrics I, II (Chicago)
 Introduction to Industrial Relations (Chicago)
 Econometric Theory I (Chicago)
 Industrial Relations and International Business (Chicago)
 Workshop in Economics and Econometrics (Chicago)
 Econometric Analysis of Time Series (Princeton)
 Mathematics for Economists (Princeton)

Undergraduate:

Understanding Social and Economic Data (Cornell, co-instructor: Lars Vilhuber)
Introductory Microeconomics (Cornell)
 Economics of Employee Benefits (Cornell)
 Economics of Wages and Employment (Cornell)

Corporate Finance (Cornell)
 Introduction to Econometrics (Princeton)
 Microeconomics (Princeton)

BIBLIOGRAPHY

Books

1. Abowd, John M. and Francis Kramarz (eds.) *The Microeconometrics of Human Resource Management*, special issue of *Annales d'économie et de statistique* 41/42 (Paris: ADRES, January/June 1996).
2. Abowd, John M. and Richard B. Freeman (eds.) *Immigration, Trade and the Labor Market* (Chicago: University of Chicago Press for the National Bureau of Economic Research, 1991).

Articles

1. McKinney, Kevin L., Andrew S. Green, Lars Vilhuber and John M. Abowd "Total Error and Variability Measures for the Quarterly Workforce Indicators and LEHD Origin-Destination Employment Statistics in OnTheMap" *Journal of Survey Statistics and Methodology* (forthcoming). [download arxiv preprint], supplemental online materials DOI: <https://doi.org/10.5281/zenodo.3951670>
2. Abowd, John M., Ian M. Schmutte, William Sexton, and Lars Vilhuber "Why the Economics Profession Must Actively Participate in the Privacy Protection Debate," *American Economic Association: Papers and Proceedings*, Vol. 109 (May 2019): 397-402, DOI:10.1257/pandp.20191106. [download preprint]
3. Abowd, John M. and Ian M. Schmutte "An Economic Analysis of Privacy Protection and Statistical Accuracy as Social Choices," *American Economic Review*, Vol. 109, No. 1 (January 2019):171-202, DOI:10.1257/aer.20170627. [AER, ArXiv preprint, Replication information]
4. Weinberg, Daniel H., John M. Abowd, Robert F. Belli, Noel Cressie, David C. Folch, Scott H. Holan, Margaret C. Levenstein, Kristen M. Olson, Jerome P. Reiter, Matthew D. Shapiro, Jolene Smyth, Leen-Kiat Soh, Bruce D. Spencer, Seth E. Spielman, Lars Vilhuber, and Christopher K. Wikle "Effects of a Government-Academic Partnership: Has the NSF-Census Bureau Research Network Helped Secure the Future of the Federal Statistical System?" *Journal of Survey Statistics and Methodology* (2018) DOI:10.1093/jssam/smy023. [download, open access] [download preprint]
5. Abowd, John M., Ian M. Schmutte and Lars Vilhuber "Disclosure Limitation and Confidentiality Protection in Linked Data," in A.Y. Chun, M. Larson, J. Reiter, and G. Durrant (eds.) *Administrative Records for Survey Methodology* (New York: Wiley, forthcoming). [download preprint]
6. Abowd, John M., Kevin L. McKinney and Ian M. Schmutte "Modeling Endogenous Mobility in Earnings Determination," *Journal of Business and Economic Statistics* Vol. 37, Issue 3 (2019):405-418. DOI: 10.1080/07350015.2017.1356727. [download preprint] [JBES]
7. Abowd, John M., Francis Kramarz, Sébastien Perez-Duarte, and Ian Schmutte "Sorting between and within Industries: A Testable Model of Assortative Matching," *Annals of Economics and Statistics* 129 (March 2018): 1-32. NBER WP-20472. [download preprint] [programs] [data]
8. Abowd, John M., Kevin L. McKinney and Nellie Zhao "Earnings Inequality and Mobility Trends in the United States: Nationally Representative Estimates from Longitudinally Linked Employer-Employee Data," *Journal of Labor Economics* 36, S1 (January 2018):S183-S300 DOI: 10.1086/694104. [download, not copyrighted] [download preprint]
9. Abowd, John M. "How Will Statistical Agencies Operate When All Data Are Private?" *Journal of Privacy and Confidentiality*, Vol. 7, Issue 3, Article 1 (2017). [download, open journal]
10. Haney, Samuel, Ashwin Machanavajjhala, John M. Abowd, Matthew Graham, Mark Kutzbach, and Lars Vilhuber "Utility Cost of Formal Privacy for Releasing National Employer-Employee Statistics," *ACM SIGMOD 2017*, DOI: 10.1145/3035918.3035940. [download]
11. Abowd, John M. and Kevin L. McKinney "Noise Infusion as a Confidentiality Protection Measure for Graph-based Statistics" *Statistical Journal of the International Association for Official Statistics* (2016) Vol. 32, No. 1, pp. 127-135, DOI: 10.3233/SJI-160958. [download article, open access] [download preprint]

12. Abowd, John M. and Ian Schmutte "Economic Analysis and Statistical Disclosure Limitation" *Brookings Panel on Economic Activity* (Spring 2015): 221-267. [[download article and discussion](#), open access] [[download preprint](#)]
13. Schneider, Matthew J. and John M. Abowd "A New Method for Protecting Interrelated Time Series with Bayesian Prior Distributions and Synthetic Data," *Journal of the Royal Statistical Society, Series A* (2015) DOI:10.1111/rssa.12100. [[download preprint](#)]
14. Lagoze, Carl, William C. Block, Jeremy Williams, Lars Vilhuber, and John M. Abowd "Data Management of Confidential Data." *International Journal of Digital Curation* 8, no. 1 (2013): 265-278. doi:10.2218/ijdc.v8i1.259. [[download preprint](#)]
15. Abowd, John M. and Martha H. Stinson "Estimating Measurement Error in Annual Job Earnings: A Comparison of Survey and Administrative Data," *Review of Economics and Statistics*, Vol. 95, No. 5 (December 2013): 1451-1467. doi:10.1162/REST_a_00352. [[download](#), not copyrighted]
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Miscellany

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2. Abowd, John M., "The Census Bureau Tries to Be a Good Data Steward in the 21st Century" International Conference on Machine Learning (ICML) 2019 [keynote address](#). [[video](#), start at minute 18:00] [[slides](#)]
3. Garfinkel, Simson L., John M. Abowd, and Christian Martindale, "Understanding Database Reconstruction Attacks on Public Data," *ACMQueue*, Vol. 16, No. 5 (September/October 2018): 28-53. [[download](#), not copyrighted]
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4. Abowd, John M. and Ian Schmutte "Revisiting the Economics of Privacy: Population Statistics and Confidentiality Protection as Public Goods" (April 2017). [[download preprint](#)].
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6. Abowd, John M., John Haltiwanger, Julia Lane, Kevin McKinney and Kristin Sandusky "Technology and Skill: An Analysis of Within and Between Firm Differences" (March 2007) NBER WP-13043. [[download preprint](#)]
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MAJOR GRANTS AND RESEARCH CONTRACTS

1. Associate Director for Research and Methodology and Chief Scientist U.S. Census Bureau, Intergovernmental Personnel Act (IPA) with Cornell University, June 1, 2016–May 31, 2020.
2. Research and Methodology Support Services, U.S. Census Bureau contract with Cornell University, June 1, 2015–May 31, 2016, \$268,897.
3. The Economics of Socially Efficient Privacy and Confidentiality Management for Statistical Agencies, Alfred P. Sloan Foundation awarded to Cornell University, April 1, 2015–March 31, 2019, \$535,970. (co-PIs Lars Vilhuber and Ian Schmutte)
4. RCN: Coordination of the NSF-Census Research Network, National Science Foundation SES 1237602 awarded to the National Institute of Statistical Sciences, July 15, 2012–June 30, 2017, transferred to Cornell University, September 2014, \$748,577. (PI Lars Vilhuber, other co-PIs Alan Karr, Jerome Reiter)
5. NCRN-MN: Cornell Census-NSF Research Node: Integrated Research Support, Training and Data Documentation, National Science Foundation Grant SES 1131848 awarded to Cornell University, October 1, 2011–September 30, 2016, \$2,999,614. (with William Block, Ping Li, and Lars Vilhuber)
6. A Census-Enhanced Health and Retirement Study: A Proposal to Create and Analyze an HRS Dataset Enhanced with Characteristics of Employers, Alfred P. Sloan Foundation grant awarded to the Institute for Social Research, University of Michigan with a subcontract to Cornell University, September 1, 2011–August 31, 2016, Cornell component \$349,608. (PI: Margaret Levenstein; other co-PIs: Matthew Shapiro, Kristin McCue and David Weir)
7. [Synthetic Data User Testing and Dissemination](#), National Science Foundation Grant SES 1042181 awarded to Cornell University, September 15, 2010 to September 14, 2013, \$197,170. (Co-PI Lars Vilhuber)
8. [CDI-Type II: Collaborative Research: Integrating Statistical and Computational Approaches to Privacy](#), National Science Foundation Grant BCS 0941226 awarded to Cornell University, September 1, 2010–August 31, 2014, \$409,296. (Other PIs: Aleksandra B Slavkovic, Stephen E. Fienberg, Sofya Raskhodnikova, and Adam Smith)
9. [TC:Large: Collaborative Research: Practical Privacy: Metrics and Methods for Protecting Record-level and Relational Data](#), National Science Foundation Grant TC 1012593 awarded to Cornell University, July 15, 2010 to July 14, 2015, \$1,326,660. (Other PIs: Johannes Gehrke, Gerome Miklau, and Jerome Reiter)
10. [The Longitudinal Employer-Household Dynamics Program, U.S. Bureau of the Census](#), Interagency Personnel Act (IPA) with Cornell University, September 18, 1998 – September 17, 2000, \$260,000; renewed September 14, 2000–September 13, 2002, \$320,000; contract renewed as consultant September 14, 2002–September 13, 2003 (\$120,000); renewed as IPA September 15, 2003 – September 14, 2005 (\$384,590); renewed as IPA September 15, 2005–September 14, 2007 (\$425,215); new September 15, 2008–September 14, 2010 (497,897);

- renewed September 15, 2010–September 14, 2012 (532,893); continued as a contract with ACES-Research, LLC (September 17, 2012–September 16, 2013); re-established as IPA October 1, 2013–September 30, 2014 (\$231,757); re-established as IPA November 14, 2014–May 31, 2015 (\$229,095).
11. [Social Science Gateway to TeraGrid](#), National Science Foundation Grant SES 0922005 awarded to Cornell University, July 1, 2009 to June 30, 2012, \$393,523. (Co-PI Lars Vilhuber) [[Cornell Chronicle Article](#)] [[ILR News Release](#)]
 12. [Joint NSF-Census-IRS Workshop on Synthetic Data and Confidentiality Protection](#), July 2009 Washington, DC, National Science Foundation Grant SES 0922494 awarded to Cornell University, July 1, 2009 to June 30, 2010, \$18,480. (Co-PIs Lars Vilhuber, Jerome Reiter, and Ron Jarmin)
 13. [The Economics of Mass Layoffs: Displaced Workers, Displacing Firms, Causes and Consequences](#), National Science Foundation Grant SES-0820349 awarded to Cornell University, October 1, 2008 to September 30, 2010, \$245,950. (Co-PI Lars Vilhuber)
 14. LEHD Developmental and Confidentiality Research, Census Bureau Contract to Abt Associates with subcontract awarded to Cornell University, August 1, 2007 to September 30, 2008, \$358,270.
 15. [CT-T: Collaborative Research: Preserving Utility While Ensuring Privacy for Linked Data](#), National Science Foundation Grant CNS-0627680 awarded to Cornell University, September 5, 2006 to August 31, 2009, \$488,950. (PI Johannes Gehrke)
 16. [LEHD Confidentiality Research](#), Census Bureau Contract to Abt Associates with subcontract awarded to Cornell University, October 1, 2004 to September 30, 2005, \$230,155.
 17. [ITR-\(ECS+ASE\)-\(dmc+int\): Info Tech Challenges for Secure Access to Confidential Social Science Data](#), National Science Foundation Grant SES-0427889 awarded to Cornell University, October 1, 2004 to September 30, 2007, \$2,938,000. (Co-PIs Matthew D. Shapiro, Ronald Jarmin, Stephen F. Roehrig, and Trivellore Raghunathan) [[Cornell Chronicle article](#)]
 18. [EITM: Developing the Tools to Understand Human Performance: An Empirical Infrastructure to Foster Research Collaboration](#), National Science Foundation Grant SES-0339191 awarded to Cornell University, October 1, 2004 to September 30, 2007, \$337,455 (Co-PIs John Haltiwanger and Ron Jarmin)
 19. [The New York Research Data Center](#), National Science Foundation Grant SES-0322902 awarded to the NBER, August 1, 2003 to July 31, 2004, \$300,000. (PI Neil G. Bennett, Other co-PIs Bart Hobijn, Erica L. Groshen, Robert E. Lipsey)
 20. [Workshop on Confidentiality Research](#), National Science Foundation Grant SES-0328395 awarded to the Urban Institute, June 1, 2003 – May 31, 2004, \$43,602. (Co-PI Julia Lane)
 21. [Firms, Workers and Workforce Quality: Implications for Earnings Inequality and Economic Growth](#), Alfred P. Sloan Foundation Grant 22319-000-00 awarded to the Urban Institute, January 2003–January 2006, \$1,400,000. (Co-PIs John Haltiwanger, Julia Lane, J. Bradford Jensen, Fredrick Knickerbocker, and Ronald Prevost)
 22. [The Demand for Older Workers: Using Linked Employer-Employee Data for Aging Research](#), National Institute on Aging, R01-AG18854-01 to Cornell University, July 1, 2002 – April 30, 2007, \$1,753,637. (Co-PIs John Haltiwanger, Andrew Hildreth, and Julia Lane)
 23. [Workers and Firms in the Low-wage Labor Market: Interactions and Long Run Dynamics](#), Russell Sage Foundation, Rockefeller Foundation, and Department of Health and Human Services (ASPE) to the Urban Institute \$700,000, September 1, 2001 August 31, 2003. (Co-PIs John Haltiwanger, Harry Holzer, and Julia Lane)
 24. [From Workshop Floor to Workforce Clusters: A New View of the Firm](#), Alfred P. Sloan Foundation, 99-12-12 to the Urban Institute, March 1, 2000 – March 31, 2002, \$314,604. (Co-PIs John Haltiwanger and Julia Lane)
 25. [Dynamic Employer-Household Data and the Social Data Infrastructure](#), National Science Foundation, SES-9978093 to Cornell University, September 28, 1999 – September 27, 2005, \$4,084,634. (Co-PIs John Haltiwanger and Julia Lane)
 26. [The Longitudinal Employer-Household Dynamics Program](#), National Institute on Aging, interagency funding to the United States Census Bureau, September, 1999 – August, 2001, \$490,000. Renewed September 2001– August 2004, \$750,000 (Co-PIs John Haltiwanger and Julia Lane) [[Cornell Chronicle article](#)]
 27. [Individual and Firm Heterogeneity in Labor Markets: Studies of Matched Employee-Employer Data](#), National Science Foundation SBER 9618111 to the NBER, March 15, 1997 – February 28, 2002, \$243,361.

28. Creation of an Employer Identification Link File and Addition of Employer Information to the National Longitudinal Survey of Youth 1979 Cohort, Bureau of Labor Statistics (subcontracted by NORC, University of Chicago, Chicago, IL 60637), July 1, 1995 – December 31, 1997, \$82,946.
29. Employment and Compensation Policies: Studies of American and French Labor Markets Using Matched Employer-Employee Data, National Science Foundation SBR 9321053 to the NBER, July 1, 1994 – June 31, 1997, \$ 185,257. (Co-PIs David Margolis and Kenneth Troske)
30. Compensation System Design, Employment and Firm Performance: An Analysis of French Microdata and a Comparison to the United States, National Science Foundation, SBR 9111186 to Cornell University, July 1, 1991 – December 30, 1994, \$174,565.
31. The Effects of Collective Bargaining and Threats of Unionization on Firm Investment Policy, Return on Investment, and Stock Valuation, National Science Foundation, SES 8813847 to the NBER, July 1, 1988 – June 30, 1990, \$81,107.
32. Improving the Scientific Research Utility of Labor Force Gross Flow Data, National Science Foundation, SES 85-13700 to the NBER, April 15, 1986 – March 31, 1988, \$69,993.
33. Program Evaluation: New Panel Data Methods for Evaluating Training Effects, U.S. Department of Labor Contract 23-17-80-01 to NORC at the University of Chicago, 1983.
34. Minority Unemployment, Compensating Differentials and the Effectiveness of the EEOC, U.S. Department of Labor Contract 20-17-80-44 to NORC at the University of Chicago, 1982.
35. An Analysis of Hispanic Employment, Earnings and Wages with Special Reference to Puerto Ricans, U.S. Department of Labor Grant 21-36-78-61, 1981.

PROFESSIONAL SERVICE, SURVEYS, AND DATA COLLECTION

1. Canadian Research Data Centre Network Inaugural Board 2017-2019.
2. American Economic Association, Committee on Economic Statistics (AEAWeb) 2013-2018.
3. National Academy of Sciences, Committee on National Statistics (CNSTAT) 2010-2013; reappointed 2013-2016.
4. National Academy of Sciences, CNSTAT, Panel on Measuring and Collecting Pay Information from U.S. Employers by Gender, Race, and National Origin, (Chair) 2011-2012.
5. National Academy of Sciences, CNSTAT, Panel on Measuring Business Formation, Dynamics and Performance, 2004-2007.
6. National Academy of Sciences, CNSTAT, Panel on Data Access for Research Purposes, 2002-2005.
7. Executive Committee, Conference on Research in Income and Wealth 2002-.
8. Distinguished Senior Research Fellow, LEHD Program, U.S. Census Bureau 1998-2016.
9. Social Science and Humanities Research Council (Canada), Major Collaborative Research Initiatives review panel, 1997, 1998.
10. Technical Advisory Board for the National Longitudinal Surveys of the Bureau of Labor Statistics, 1988-1990, 1992-2001, Chair 1999-2001.
11. National Science Foundation, Economics Panel, 1990-91, 1992-93; KDI Panel 1999; Infrastructure Panel 2000; CDI Panel 2008; CDI Panel 2009.
12. Principal Investigator for The Center for Advanced Human Resource Studies Managerial Compensation Data Base. sponsored by the Cornell University Center for Advanced Human Resource Studies, 1989-1994.
13. Principal Investigator for A Longitudinal Data Base of Collective Bargaining Agreements. Sponsored by the Bureau of National Affairs and the University of Chicago Graduate School of Business, 1985.

PROFESSIONAL ORGANIZATIONS

1. American Economic Association
2. American Statistical Association
3. Econometric Society
4. Society of Labor Economists
5. International Statistical Institute
6. International Association for Official Statistics
7. National Association for Business Economics
8. American Association of Wine Economists
9. American Association for Public Opinion Research

10. Association for Computing Machinery

11. American Association for the Advancement of Science

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