

MATTHEW H. RUTHER

University of Louisville

Curriculum Vitae

July 2022

CONTACT

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EMPLOYMENT

2020- Undergraduate Program Director, Department of Urban and Public Affairs
2019- Associate Professor, Department of Urban and Public Affairs, University of Louisville
2018- Director, Urban Studies Institute
2014- Director, Kentucky State Data Center
2014-2019 Assistant Professor, Department of Urban and Public Affairs, University of Louisville
2012-2014 Research Associate, Department of Geography, University of Colorado Boulder

EDUCATION

2012 PhD, Demography, University of Pennsylvania
2009 MA, Demography, University of Pennsylvania
1995 BS, Quantitative Studies, Economics, New York University

PEER-REVIEWED JOURNAL ARTICLES

1. Risinger, W.B., S.J. Pera, N. Bhutiani, **M. Ruther**, B.G. Harbrecht, M.V. Benms, and K.R. Miller. "A New Pandemic and an Old Epidemic – The Impact of COVID-19 and Gun Violence as Measured by Years of Potential Life Lost in a US City." *Forthcoming in Surgery*
2. Yingling, M.E., **M.H. Ruther**, and E.M. Dubuque. "Geographic Access to Registered Behavior Technicians among Children with Autism Spectrum Disorder." *Forthcoming in Behavior Analysis in Practice*
3. Yingling, M.E., **M.H. Ruther**, and E.M. Dubuque. "Trends in Geographic Access to Board Certified Behavior Analysts among Children with Autism Spectrum Disorder, 2018-2021." *Forthcoming in Journal of Autism and Developmental Disorders* [<https://doi.org/10.1007/s10803-021-05402-0>]
4. Yingling, M.E., **M.H. Ruther**, E.M. Dubuque, and B.A. Bell. 2021. "Impact of County Sociodemographic Factors and State Policy on Geographic Access to Behavior Analysts among Children with Autism Spectrum Disorder." *Administration and Policy in Mental Health and Mental Health Services Research* 48(6):1105-1114
5. Yingling, M.E., **M. Ruther**, E.M. Dubuque, and D.S. Mandell. 2021. "County-Level Variation in Geographic Access to Board Certified Behavior Analysts among Children with Autism Spectrum Disorder in the United States." *Autism* 25(6):1734-1745

6. Xu, A.[†], C. Zhang, and **M. Ruther**. 2021. "A Spatial Analysis of the Impact of Foreign-Born Population on Home Values and Native Flight in Louisville, Kentucky." *Journal of Urban Affairs* 43(10):1513-1535
7. Zhang, C. and **M. Ruther**. 2021. "Contemporary Patterns and Issues of School Segregation and White Flight in U.S. Metropolitan Areas: Towards Spatial Inquiries." *GeoJournal* 86:1511-1526
8. Bennis, M, **M. Ruther**, N. Nash, M. Bozeman, and K. Miller. 2020. "The Impact of Historical Racism on Modern Gun Violence: Redlining in the City of Louisville, KY." *Injury* 51(10):2192-2198
9. Kinahan, K. and **M. Ruther**. 2020. "Uncovering the Relationship between Same-Sex Households and Historic Districts." *Journal of the American Planning Association* 86(4):481-494
10. Tesfai, R., **M. Ruther**, and J.F. Madden. 2020. "Precursors to Neighborhood Revitalization? Immigrant Growth and Neighborhood Change in New and Traditional Immigrant Settlement Areas." *Urban Geography* 41(2):268-292
11. Navarro, J.[†] and **M. Ruther**. 2020. "A Geospatial Analysis Between the Sale Prices of Single-Family Properties and the Presence of Registered Sex Offenders in Jefferson County, Kentucky." *Urban Studies* 57(5):944-958
12. Madden, J.F. and **M. Ruther**. 2018. "The Paradox of Expanding Ghettos and Declining Racial Segregation in Large U.S. Metropolitan Areas, 1970-2010." *Journal of Housing Economics* 40:117-128
13. **Ruther, M.**, R. Tesfai, and J.F. Madden. 2018. "Foreign Born Population Concentration and Neighborhood Growth and Development within U.S. Metropolitan Areas." *Urban Studies* 55(4):826-843
14. Hsieh, N. and **M. Ruther**. 2017. "Despite Increased Insurance Coverage, Nonwhite Sexual Minorities Still Experience Disparities in Access to Care." *Health Affairs* 36(10):1786-1794
15. **Ruther, M.**, S. Leyk, and B. Battenfield. 2017. "Deriving Small Area Mortality Estimates Using a Probabilistic Reweighting Method." *Annals of the Association of American Geographers* 107(6):1299-1314
16. Kelly, J., **M. Ruther**, S. Ehresman[†], and B. Nickerson[†]. 2017. "Placemaking as an Economic Development Strategy for Small and Midsized Cities." *Urban Affairs Review* 53(3):435-462
17. Zoraghein, H.[†], S. Leyk, **M. Ruther**, and B.P. Battenfield. 2016. "Exploiting Temporal Information in Parcel Data to Refine Small Area Population Estimates." *Computers, Environment, and Urban Systems* 58:19-28
18. White, G.[†], **M. Ruther**, J.R. Kahn, and D. Dong. 2016. "Gender Inequality Amid Educational Expansion in India: An Analysis of Gender Differences in the Attainment of Reading and Mathematics Skills." *Journal of Research in Gender Studies* 6(2):153-181

19. Hsieh, N. and **M. Ruther**. 2016. "Sexual Minority Health and Health Risk Factors: Intersection Effects of Gender, Race, and Sexual Identity." *American Journal of Preventive Medicine* 50(6):746-755
20. Griffis, H.M., R.A. Band, **M. Ruther**, M. Harhay, D.A. Asch, J.C. Hershey, S. Hill, L. Nadkarni, A. Kilaru, C.C. Branas, F. Shofer, G. Nichol, L.B. Becker, and R.M. Merchant. 2016. "Employment and Residential Characteristics in Relation to Automated External Defibrillator Locations." *American Heart Journal* 172:185-191
21. Bутtenfield, B.P., **M. Ruther**, and S. Leyk. 2015. "Exploring the Impact of Dasymetric Refinement on Spatiotemporal Small Area Estimates." *Cartography and Geographic Information Science* 42(5):449-459
22. **Ruther, M.**, S. Leyk, and B. Bутtenfield. 2015. "Comparing the Effects of an NLCD-Derived Dasymetric Refinement on Estimation Accuracies for Multiple Areal Interpolation Methods." *GIScience & Remote Sensing* 52(2):158-178
23. **Ruther, M.** 2014. "The Effect of Growth in Foreign Born Population Share on County Homicide Rates: A Spatial Panel Approach." *Papers in Regional Science* 93:S1-S23
24. Leyk, S., **M. Ruther**, B. Bутtenfield, N. Nagle, and A.K. Stum[†]. 2014. "Modeling Residential Developed Land in Rural Areas: A Size-Restricted Approach Using Parcel Data." *Applied Geography* 47(1):33-45
25. **Ruther, M.**, G. MacLaurin[†], S. Leyk, B. Bутtenfield, and N. Nagle. 2013. "Validation of Spatially Allocated Small Area Estimates for 1880 Census Demography." *Demographic Research* 29(22):579-616
26. Madden, J.F. and **M. Ruther**. 2011. "Has the NFL's Rooney Rule Efforts 'Leveled the Field' for African American Head Coach Candidates?" *Journal of Sports Economics* 12(2):127-142
27. Madden, J.F. and **M. Ruther**. 2009. "Reply to: Differences in the Success of NFL Coaches by Race: A Different Perspective." *Journal of Sports Economics* 10(5):543-550

[†] Denotes student coauthor.

BOOK CHAPTERS

Ruther, M. and N. Hsieh. 2020. "Access to Health Care for Partnered and Nonpartnered Sexual Minorities." In Liu, H., C. Reczek, and L. Wilkinson (Eds.), *Marriage and Health: The Well-Being of Same-Sex Couples*. New Brunswick, NJ: Rutgers University Press:158-175

Madden, J.F. and **M. Ruther**. 2015. "Gayborhoods: Economic Development and the Concentration of Same-Sex Couples in Neighborhoods within Large American Cities." In Rose, A., P. Nijkamp, and K. Kourtit (Eds.), *Regional Science Matters – Studies Dedicated to Walter Isard*. Berlin: Springer-Verlag:399-420

MANUSCRIPTS CURRENTLY UNDER REVIEW

Tesfai, R. and **M. Ruther**. “Immigrant Neighborhoods and Eviction: Hidden Housing Crisis?”

El-Mallakh, R.S., T.V. El-Mallakh, S. Hedges, J.P. Rai, A. Bhatnagar, S. Moyer, and **M.H. Ruther**. “Suicide and Homicide More Common with Limited Urban Tree Canopy Cover.”

MANUSCRIPTS IN PREPARATION

Ruther, M. and N. Hsieh. “Explaining Health Disparities in the Sexual Minority Population: The Role of Neighborhood Effects.”

Ruther, M. “Small Area Estimation of Population Characteristics Using Cadastral Data.”

Newton, J.D., M.M. Tomlinson, F. Pugh, **M. Ruther**, T. Ellis, and N.C. Dupre. “Identification and Characterization of Colorectal Cancer and Breast Cancer Incidence Hotspots in Kentucky.”

Tomlinson, M.M., F. Pugh, J.D. Newton, **M. Ruther**, T. Ellis, R.M. Tamimi, F. Laden, H. Iyer, N.C. Dupre. “Exposure to Ambient Heavy Metals and Odds of Residing in a Breast or Colorectal Hotspot in Kentucky.”

RESEARCH BRIEFS/TECHNICAL REPORTS

Ruther, M., S. Ehresman, and T. Sawyer. 2016. “Kentucky Population Projections: 2015-2040.” Prepared for Kentucky State Data Center.

Ehresman, S. and **M. Ruther**. 2016. “Urbanization and Demographic Change in Kentucky.” *Sustain Magazine*, Spring/Summer 2016. Kentucky Institute for the Environment and Sustainable Development.

ACADEMIC PRESENTATIONS

“Uncovering the Relationship between Same-Sex Households and Historic Districts.” Association of Collegiate Schools of Planning, Greenville, SC, October 2019

“Explaining Health Disparities in the Sexual Minority Population: The Role of Neighborhood Effects.” Population Association of America, Austin, TX, April 2019

“Explaining Health Disparities in the Sexual Minority Population: Health Behaviors, Access to Care, and Neighborhood Effects.” Population Studies Center, University of Pennsylvania, September 2018

“Small Area Estimation of Population Characteristics Using Cadastral Data.” Southern Demographic Association, Morgantown, WV, October 2017

“Economic Strain and Healthcare Access: How the Intersection of Sexual Identity, Gender, and Race Matters.” Population Association of America, Chicago, IL, April 2017

“Sexual Minority Health & Health Risk Factors: Intersection Effects of Gender, Race, and Sexual Identity.” Population Association of America, Washington, DC, March 2016

“Deriving Small Area Mortality Estimates Using a Probabilistic Reweighting Method.” Population Association of America, Washington, DC, March 2016

“The Link between Behavioral Risk Factors and Sexual Minority Health: Observing the Intersection Effects of Sexual and Gender Identities.” Population Association of America, San Diego, CA, April 2015

“Foreign Born Population Concentration and Neighborhood Growth and Development in U.S. Metropolitan Areas.” Urban Affairs Association, Miami, FL, April 2015

“Gayborhoods: The Economics and Demographics of Same-Sex Couple Concentrations within Large U.S. Cities.” American Real Estate and Urban Economics Association, Philadelphia, PA, January 2014

“Gayborhoods: Economic Development of Neighborhoods with Concentrations of Gays within Large American Cities.” Association for Public Policy Analysis and Management, Washington, DC, November 2013

“Analyzing Spatial Interactions in Homicide Research Using a Spatial Durbin Model.” American Society of Criminology, Atlanta, GA, November 2013

“A First Validation of Demographic Small Area Estimates.” Population Association of America, New Orleans, LA, April 2013

“Validating Small Area Population Estimates Using Historical Census Data.” CU Population Center, Institute of Behavioral Science Colloquium Series, Boulder, CO, January 2013

“Immigrant Concentration and Homicide Mortality: A Neighborhood-Level Spatial Analysis of Los Angeles County.” North American Regional Science Association, Miami, FL, November 2011

“Immigrant Concentration and Homicide Mortality: A Neighborhood-Level Spatial Analysis.” Population Association of America, Washington, DC, April 2011

“Measuring Immigrant Concentration and Immigrant Clustering.” Center for Spatially Integrated Social Science, University of California Santa Barbara, July 2010

“The Fertility Response to September 11th.” Poster Session. Population Association of America, Dallas, TX, April 2010

SPONSORED PROJECTS

2022	\$4,500	Kentucky Youth Advocates , data collection and preparation for 2021 Kentucky Kids Count Data Book, 12 months
2021	\$6,000	Foundation for a Healthy Kentucky , data collection and preparation for 2021 Kentucky Health Facts, 3 months
2021	\$4,500	Kentucky Youth Advocates , data collection and preparation for 2020 Kentucky Kids Count Data Book, 12 months
2020	\$25,369	U.S. Census Bureau , Federal-State Cooperative for Population Estimates Count Review, 12 months

2020	\$6,000	Foundation for a Healthy Kentucky , data collection and preparation for 2020 Kentucky Health Facts, 3 months
2020	\$4,500	Kentucky Youth Advocates , data collection and preparation for 2019 Kentucky Kids Count Data Book, 12 months
2019	\$7,700	IQS Research , Louisville Downtown Partnership State of the Downtown, 2 months
2019	\$4,500	Foundation for a Healthy Kentucky , data collection and preparation, 6 months
2019	\$8,500	Metro United Way , data collection and preparation for neighborhood and county demographic profiles (outlying counties), 6 months
2019	\$300	School of Public Health and Information Services , telemedicine mapping, 1 month
2019	\$6,000	Kentucky Youth Advocates , data collection and preparation for 2018 Kentucky Kids Count Data Book, 12 months
2018	\$4,000	Foundation for a Healthy Kentucky , data collection and preparation, 6 months
2018	\$300	REACH Evaluation , processing of vital statistics data, 1 month
2018	\$7,000	Metro United Way , data collection and preparation for neighborhood and county demographic profiles, 6 months
2018	\$4,500	Kentucky Youth Advocates , data collection and preparation for 2017 Kentucky Kids Count Data Book, 12 months
2017	\$3,500	City of Covington, Kentucky , “A Demographic Portrait of Covington”, “Subsidized Housing in Kenton County and the City of Covington”, 4 months
2017	\$1,150	School of Public Health and Information Services , telemedicine mapping, 1 month
2017	\$4,000	Foundation for a Healthy Kentucky , data collection and preparation, 3 months
2017	\$1,500	Woodford County, Kentucky , “Woodford County Forecasts: Population, Housing, Employment 2015-2040”, 2 months
2017	\$7,000	IQS Research , talent mapping (w/USI), 2 months
2016	\$4,500	Kentucky Youth Advocates , data collection and preparation for 2016 Kentucky Kids Count Data Book, 12 months
2016	\$5,000	Foundation for a Healthy Kentucky , data collection and preparation, 3 months
2015	\$45,067	Louisville Metro Department of Advanced Planning , “Louisville Metro Demographic and Economic Forecasts, 2010-2040”, 4 months (w/USI)
2015	\$500	Americas Society/Council of the Americas , “Louisville: Immigration Rebirth”
2015	\$10,000	Kentucky Country Day School , “Forecasts of Child Population and School Enrollment Trends in the Louisville Region”, 6 months
2015	\$4,500	Kentucky Youth Advocates , data collection and preparation for 2015 Kentucky Kids Count Data Book, 12 months
2014	\$5,000	Foundation for a Healthy Kentucky , data collection and preparation, 3 months
2014	\$2,400	Greater Louisville Project , data collection and preparation, 3 months
2014	\$15,348	Louisville Water Company , “Forecasts of Water Customers and Water Demand for the 25 County Louisville Economic Area, 2015-2035”, 3 months (w/USI)
2014	\$4,500	Kentucky Youth Advocates , data collection and preparation for 2014 Kentucky Kids Count Data Book, 12 months

GRANTS AND AWARDS

2020	“Identifying Geographic Clusters and Environmental Correlates Cancer (CRC) in Kentucky” (Co-I), National Institutes of Health, 12 months, \$42,948 (\$9,737 Cost-Share)
2010	"Immigrant Concentration and Homicide Mortality: A Spatial and Temporal Analysis of the

Effects of Ethnic Enclaves" (PI), National Institute of Justice, 12 months, \$25,000

GRANT APPLICATIONS, NOT FUNDED

- 2019 "Measuring Provider Accessibility among Children with ASD in the U.S.", National Institutes of Health (co-I)
- 2019 "Analysis of Impediments to Fair Housing Choice and Five-Year Consolidated Plan", Kentucky Housing Corporation (PI)
- 2016 "Investigating New Evidence of White Flight as a Consequence of Demographic Change and School Choice Policies in U.S. Metropolitan Areas", National Science Foundation, Geography and Spatial Sciences Program (co-PI)
- 2015 "Exploring Spatial Patterns of School Segregation and White Flight in U.S. Metropolitan Areas and Implications in Redistricting Policy", National Science Foundation, Geography and Spatial Sciences Program (co-PI)
- 2015 "ACA Implementation in Kentucky: Effects on Access, Quality, and Cost of Care", Agency for Healthcare Research and Quality (co-I)
- 2014 "Deriving Spatially Consistent Small Area Mortality Estimates to Better Understand Spatial and Temporal Variation in Contextual Effects on Health", National Institutes of Health, Social Sciences and Population Studies Program (co-I)
- 2013 "Temporal Estimation of Census Demography within Consistent Small Areas", National Science Foundation, Geography and Spatial Sciences Program (co-PI)

TEACHING

Professor	<i>Research Methods for Public Administration</i> , University of Louisville
Professor	<i>Urban Policy Analysis</i> , University of Louisville
Professor	<i>Analytical Urban Geography</i> , University of Louisville
Professor	<i>Urban Demography and GIS</i> , University of Louisville
Professor	<i>Statistics for Public Affairs</i> , University of Louisville
Professor	<i>Regression Analysis</i> , University of Louisville
Professor	<i>Applied Research Methods</i> , University of Louisville
Professor	<i>Spatial Statistics</i> , University of Louisville
Teaching Assistant	<i>Research Methods in Criminology</i> , University of Pennsylvania
Teaching Assistant	<i>Evidence Based Crime Prevention</i> , University of Pennsylvania
Guest Lecturer	University of Kentucky, Northern Kentucky University, Bellarmine University

GRADUATE STUDENTS

Jacob Arbital	Practicum Advisor
Jacob Edmonds	Practicum Advisor
Nathan Wright	Thesis Committee (Geography)
Chris Wales	Thesis Committee
Amber Dock	Thesis Committee (Geography)
Ryan Lloyd	Thesis Committee (Sustainability)
Hamidreza Zoraghein	Dissertation Committee (University of Colorado Boulder)
Mobin Khan	Dissertation Committee
Chad Frederick	Dissertation Committee

Charles Kaye-Essien	Dissertation Committee
Turky Armaein	Dissertation Committee (SPHIS)
Andrew Bates	Dissertation Committee (Chair)
Anqi Xu	Dissertation Committee (Chair)
Amanda Denton	Dissertation Committee
Sait Sarr	Dissertation Committee (Chair)
Lauren Anderson	Dissertation Committee (Chair)*
Rebecca Wells-Gonzalez	Dissertation Committee*
Johnnie Newton	Dissertation Committee (SPHIS)*

* Denotes dissertation currently in progress.

COMMUNITY SERVICE AND PRESENTATIONS

Northern Kentucky Forum, May 2022
U.S. Army Corps of Engineers, Women’s Equality Month, March 2022
Building Industry Association, Real Estate Outlook Conference, February 2022
Russell: A Place of Promise (Redistricting), February 2022
Bluegrass Area Development District, 2020 Census Data Update, November 2021
Kentucky State Data Center Annual Affiliate Meeting, September 2021
Louisville Metro Council, Redistricting Committee, August 2021
KET/PBS, The Urban-Rural Divide in Kentucky, July 2021
Foundation for a Healthy Kentucky, Health for a Change, May 2021
UofL Department of Geography, Furthering Racial Equity in JCPS Student Assignment, November 2020
Louisville Public Media, Diversity and Inclusion at LPM, September 2020
Greater Louisville Association of Realtors, Census Data and Geography, June 2020
Louisville Downtown Partnership, State of the Downtown, November 2019
Southeastern IDEa Conference, November 2019
U.S. Army Corps of Engineers-Louisville District, Women’s Equality Day, August 2018
Foundation for a Healthy Kentucky, LGBT Health Webinar, June 2018
Fayette Alliance, Citizens Planning Academy, April 2018
Horizon Fund, Northern Kentucky Philanthropy Symposium, April 2018
Louisville Metro Public Health, Community Health Needs Assessment, February 2018
Jefferson County Public Schools, Student Assignment Plan, January 2018
City of Clarksville, Planning Board, November 2017
Northern Kentucky University, Northern Kentucky Forum, October 2017
Louisville Public Media, Diversity Evaluation, August 2017
City of Covington, City Commissioners, August 2017
Building Industry Association/Greater Louisville Association of Realtors, August 2017
Retired Military Officers of America, Louisville Chapter, April 2017
Fayette Alliance, Citizens Planning Academy, March 2017
Kentucky Department of Aging and Independent Living, February 2017
Louisville Public Media, Diversity Evaluation, August 2016
OneWest Louisville, Executive Board, May 2016
Jefferson County Board of Education, April 2016
Building Industry Association of Greater Louisville, December 2015
University of Louisville, LGBT Health and Wellness Competency Certificate Program, November 2015
University of Louisville, Fair Housing Forum, October 2015

Bellarmine University, Master of Analytics Program, October 2015
Kentucky State University, Board of Regents, July 2015
Southeast Regional Directors Institute Annual Conference, May 2015
Kentucky Association of Electric Cooperatives, Annual Meeting, April 2015
Louisville Public Media, Board of Directors, March 2015
Louisville Downtown Partnership, State of the Downtown, February 2015
U.S. State Department Foreign Press Center Tour, October 2014

INSTITUTIONAL AND PROFESSIONAL SERVICE

Department

UPA Personnel Committee (2019-current), Chair (2019-current)
Bachelor of Urban Studies Planning Committee (2018-2020)
UPA Marketing, Recruitment, and Outreach Committee (2018-current)
MPA Faculty Search Committee (2017, 2020-2021)
MUP Admissions Committee (2014-2020)

College (Arts and Sciences)

A&S Student Hub Planning Committee (2021)
A&S Planning and Budget Committee (2021)
A&S Research Committee (2016-2019), Chair (2017-2019)

University

Board Member, Kentucky Federal Statistical Research Data Center (2016-2021)
Faculty Mentor, Community Engagement Academy, SIGS (2016-2018)
Executive Board, Commonwealth Institute of Kentucky (2015-2019)
Commonwealth Scholar, School of Public Health and Information Sciences (2015-current)
Faculty Search Committee, School of Public Health and Information Sciences (2015-2016)
Director, Kentucky State Data Center (2014-current)

Profession

2020 Census Participant Statistical Area Program (2020)
PAA Representative, Population Association of America, D.C. Advocacy Days (2017)
Book Review of Amin Ghaziani, *The End of the Gayborhood?* in *Contemporary Sociology: A Journal of Reviews* 45:176-177 (2016)
Co-editor, Crisis and Emergency Management Section, "Global Encyclopedia of Public Administration and Public Policy" (2015-2017)
Session Organizer, Population Association of America Annual Meeting (2015)
Member, Population Association of America, Association of American Geographers, American Planning Association (2014-current)
Referee: *Urban Geography*, *Urban Affairs Review*, *Urban Studies*, *Population Research & Policy Review*, *Applied Geography*, *Family & Community Health*, *Canadian Studies in Population*, *Computers, Environment and Urban Systems*, *Urban Affairs Review*, *Cartography and Geographic Information Science*, *Papers in Regional Science*, *Journal of Labor Research*, *Centro Journal*, *International Journal of Public Health*, *BMC Medical Research Methodology*, *Historical Methods: A Journal of Quantitative and Interdisciplinary History*

PROFESSIONAL DEVELOPMENT

Consultant/Spatial Analyst, Columbia University (w/ Jeffrey Fagan, Law), 2013
Workshop in Environmental Demography, CU Population Center, University of Colorado Boulder, 2013
Consultant/Research Assistant, Temple University (w/ Joshua Klugman, Sociology), 2011
Research Assistant, University of Pennsylvania (w/ Emilio Parrado, Sociology), 2010, 2011
Workshop in Spatial Pattern Analysis, Center for Spatially Integrated Social Science, University of
California, Santa Barbara, 2010

SECURITY CLEARANCE

Special Sworn Status, U.S. Census Bureau