Mathew E Hauer

Curriculum Vitae

Address: Department of Sociology, Florida State University

Phone: (706) 542-9369 Email: mehauer@fsu.edu Homepage: mathewhauer.com

Google Scholar: Profile

February 11, 2021 GitHub: github.com/mathewhauer

EDUCATION

2016	Ph.D.	Geography	University of Georgia
		"Ripple Effect: How	$Sea\ Level\ Rise\ Induced\ Migration\ Will\ Reshape\ the\ U.S.\ Population\ Landscape"$
2008	M.S.	Demography	Florida State University
		"The Decomposition	of Period and Cohort Life Tables"
2007	B.S.	Sociology	Florida State University
2007	B.S.	Social Sciences	Florida State University

POSITIONS

2018 -	Assistant Professor, Department of Sociology	Florida State University
2018 -	Research Affiliate, Center for Demography and Pop. Health	Florida State University
2013 - 2018	Public Service Associate	CVIOG, University of Georgia
2011 - 2018	Director, Applied Demography Program	CVIOG, University of Georgia
2009 - 2013	Public Service Assistant	CVIOG, University of Georgia
2009 - 2009	Survey Statistician	US Census Bureau, Atlanta
2008 - 2008	Statistician	US Census Bureau, Washington DC

HONORS AND AWARDS

- 2018 E. Walter Terrie Award, Southern Demographic Association.
- 2017 Excellence in Research Award, University of Georgia Graduate School.
- Excalibur Award, Technology Association of Georgia.
 Top Honors, Georgia Technology Authority.
 Policy Communications Fellow, Population Reference Bureau.
- 2015 Top 30 Under 30 Young Alumni, Florida State University. Best Poster Award, South East Climate Consortium.
- 2014 E. Walter Terrie Award, Southern Demographic Association.
- 2013 Delta Epsilon Iota Honor Society.

PUBLICATIONS

- 22. **Hauer M.** & Santos-Lozada, AR. "Differential Privacy in the 2020 Census distorts COVID-19 mortality rates." *Socius*.
- 21. Bell, A., Wrathall, D., Mueller, V., Chen, J., Oppenheimer, M., Hauer, M., Adams, H., Kulp, S., Clark, P., Fussell, E., Magliocca, N., Xiao, T., Gilmore, E., Abel, K., Call, M., Slangen, A. "Simulated migrants move toward vulnerable coastlines in Bangladesh under all sea-level change scenarios through 2100." Environmental Research Letters.
- 20. Landon, CM, Lyles RH, Scrovronick, NC, Abadi, AM, Bilotta R, Hauer, M., Bell, JE, Gribble, MO. (2020). "Mixed-effects negative binomial regression with interval censoring: a simulation study and application to aridity and all-cause mortality among black South Africans over 1997-2013." Forthcoming in Springer Statistics and Biostatistics.

^{*}Student or Post-Doc.

- 19. **Hauer M.** & Santos A. (2020). "Inaction on climate change projected to reduce European life expectancy." Population Research and Policy Review *Population Research and Policy Review*.
- 18. Keenan, J. M. & **Hauer**, **M.**. (2020). "Resilience for whom? Demographic change and the redevelopment of the built environment in Puerto Rico." *Environmental Research Letters:* 15(7): 074028.
- 17. **Hauer, M.**, Holloway, S., & Oda, T. (2020). "Evacuees and Migrants Exhibit Different Migration Systems after the Great East Japan Earthquake and Tsunami." *Demography* 57: 1437-1457.
- 16. **Hauer, M.** & Schmertmann, C. (2020). "Population pyramids yield accurate estimates of total fertility rates." *Demography* 57: 221-241.
- 15. **Hauer M.**, Fussell B., Burkett M., Call M.*, Abel K.*, Mueller V., McLeman R., Wrathall D. (2019). "Sea Level Rise and Human Migration." *Nature Reviews Earth & Environment* 1-12.
- 14. Wrathall D., Mueller V., Clark P., Oppenheimer M., **Hauer M.**, et al. (2019). "Meeting the looming challenge of future migration from global sea level change." *Nature Climate Change* 9(12): 898-901.
- 13. **Hauer, M.**, Byars J*. (2019). "IRS County-to-County Migration Data, 1990-2010." *Demographic Research* 40: 1153-1166.
- 12. **Hauer**, M. (2019). "Population projections for US counties by age, sex, and race controlled to shared socioeconomic pathway." *Scientific Data* 6.
 - * Winner of the 2018 E. Walter Terrie Award from the Southern Demographic Association.
- 11. **Hauer**, M. (2019). "Sociology, Demography, and Economics Presidential Ages and Sex over Time." *Socius* 5.
- 10. **Hauer, M.**, Hardy, R.D.*, Mishra, D., and Pippin, J.S. (2019). "No landward movement: examining 80 years of population migration and shoreline change in Louisiana." *Population and Environment* 40(4): 369-387.
- 9. Schmertmann, C., and **Hauer**, **M.** (2018). "Bayesian estimation of total fertility from a population's age-sex structure." *Statistical Modelling* 19(3): 225-247.
- 8. Hardy, R. D.*, and **Hauer**, **M.** (2018). "Social vulnerability projections improve sea-level rise risk assessments." *Applied Geographer* 91: 10-20.
- 7. Shannon, S. and **Hauer**, **M.** (2018). "A life table approach to estimating disproportionate minority contact in the juvenile justice system." *Justice Quarterly* 35(2): 330-355.
- Shannon, J., Hauer, M., Shannon, S., and Weaver, A. (2018). "The Suburbanization of Food Insecurity: An Analysis of Projected Trends in the Atlanta Metropolitan Area." *Professional Geographer* 70(1): 84-93.
- 5. **Hauer, M.** (2017). "Migration induced by sea-level rise could reshape the United States population landscape." *Nature Climate Change* 7(5): 321-325.
 - * Featured in over 85 national and international news outlets.
 - * The 128th most discussed article out of 270,000+ articles published in 2017 according to Altmetric.

- 4. **Hauer**, M., Evans, J., and Mishra, D. (2016). "Millions projected to be at risk from sea-level rise in the continental United States." *Nature Climate Change* 6(7): 691-695.
 - * Winner of the 2014 E. Walter Terrie Award from the Southern Demographic Association.
 - * Featured in over 270 national and international news outlets.
 - * The 4th most discussed article published in Nature Climate Change in 2016 according to Altmetric.
 - * The 21st most discussed article published on Climate Science in 2016 according to Altmetric.
 - * The 126th most discussed article out of 267,000+ articles published in 2016 according to Altmetric.
- 3. **Hauer**, M., Evans, J., and Alexander, C. (2015). "Sea-level rise and sub-county population projections in coastal Georgia." *Population and Environment* 37(1): 44-62.
- 2. **Hauer**, M., Baker, J., and Brown, W., (2013). "Indirect estimates of the total fertility rate using the child woman/ratio: A comparison with the Bogue-Palmore method." *PloS one* 8(6).
- 1. **Hauer, M.**, (2013). "A 3D spatio-temporal geovisualization of subcounty estimates of historic housing density in metro Atlanta, 1940-2009." *Spatial Demography* 1(2), 146-161.

Under Review

- **Hauer M.**, Hardy, R.D., Kulp, S., Mueller, V., Wrathall, D., Clark, P.U., Oppenheimer, M.O. "A framework for classifying and assessing sea level rise risk." [Preprint]
- **Hauer M.**, Saunders, R.K., & Shtob, D. "The Path of Least Resistance: Projections of Social Inequalities as a Result of Climate Change in the United States." [Preprint].
- **Hauer M.**, Mueller, V., Sheriff, G., Zhong, Qing. "More than a nuisance: Sea level rise already delays commuters."
- **Hauer M.** & Bohon, S. "Causal Inference in Population Trends: Searching for Demographic Anomalies in Big Data." [Preprint]
- Jack DeWaard, **Hauer M.**, Elizabeth Fussell, Katherine Curtis, Stephan Whitaker, Kathryn McConnell, Kobie Price, David Egan-Robertson. "User Beware: Concerning Findings from Recent U.S. Internal Revenue Service Migration Data." [Preprint]

Other

Hauer, M. Deviation of PAA President's Age, 1931-2018. PAA Affairs, 2017

GRANTS

	Competitive Grants Awarded	\$767473
2019 Co-PI	Impassable During High Water: Sea Level Rise, Commuting, and Climate	\$300 000
	Gentrification. NSF	
2019 PI	Projecting the Sociodemographic Characteristics of those Impacted by Sea	\$20 000
	Level Rise in the United States. FSU FYAP	
2019 PI	Demographic Modelling of Puerto Rico. Harvard/RAND	\$20 000
2017 Co-I	Forecast of the Timing, Locations, Sequence and Likeliest Destinations of	\$0
	Populations Displaced by Sea Level Rise and Coastal Extremes. SESYNC	
2016 Co-I	Sustainability in Chesapeake Bay shorescapes: climate change, management	\$175295
	decisions, and ecological functions. – NSF Coastal SEES. Total \$1,640,152	
2012 Co-PI	Assessment and Application of the Social Vulnerability Index for Coastal	\$67320
	Hazards Planning in Glynn County, GA.— #NA12NOS4190171, Georgia	
	Department of Natural Resources from the Office of Ocean and Coastal	
	Resource Management, National Oceanic and Atmospheric Administration	
Co-PI	Understanding social attitudes and prioritizing geo-spatial risks for climate	\$126858
	adaptation outreach in coastal Georgia.— Georgia SEAGrant	

		Projecting Hispanic Economic Outcomes in Georgia, 2000-2030.— Poverty	\$29 000
	ΡI	and Economy Grants, University of Georgia The Production and Evaluation of Estimates of the Total Population Using the Housing Unit Based Method.— US Census Bureau	\$29 000
		Under Review	\$1 135 682
2020	ΡI	Toward the Demography of Climate Change: Demographic change and migration due to sea-level rise in the United States. NSF CAREER	\$418 970
	Co-	PI Focused CoPe: NEAULARRISCG (from Resilience to Retreat through	\$352045
	<i>a</i>	Integration of Science, Communities, and Governance). NSF CoPe	Фод 1 да
	Co-J	PI Large-Scale COPE: SMART AND RESILIENT COASTAL COMMUNITIES (SMART COAST). NSF CoPe	\$364667
		TILLO (OFFITTEE COTTO	
		Contracts Awarded	\$1 516 941
2020	ΡΙ	Population Projections for the Louisiana Coastal Master Plan.	\$42 219
2018		Georgia Governor's Office of Planning and Budget, Population Projections.	\$120 519
2016		Georgia Gwinnett College Data Analysis Project, Georgia Gwinnett College.	\$242 349
		Data Research, Analysis, and Modeling Project. Board of Regents of the University System of Georgia.	\$394 304
		Population Projections for Coweta County and cities of Newnan and Sequia.	\$14550
		Coweta Water and Sewer Authority	
2015		Extended Population Projections for Carroll County, GA. Georgia DNR.	\$8 550
		Small Area Population Projections for the Bear Creek Reservoir in South Fulton County. Law Offices of Andrea P. Gray	\$8 550
	PΙ	Community Needs Assessment. Tallatoona Community Action Partnership	\$12400
		Food Insecurity in 2020 for the Atlanta Food Bank Service Area. Atlanta	\$2 000
		Community Food Bank	Ф1 00 000
		Population Projections for the State of Georgia, 2015-2050. Georgia Governor's Office of Planning and Budget	\$100 000
2014		Enrollment Projections for the University System of Georgia 2014-2024. Board	\$30 000
		of Regents of the University System of Georgia	Фолого
		University System of Georgia Data Analysis Demonstration Project. Board of Regents of the University System of Georgia	\$296 000
		* Awarded Top Honors by the Georgia Technology Authority	
		* Awarded the Excalibur Award by the Technology Association of Georgia	
		Previous Grants Total	\$245 500

TEACHING EXPERIENCE

Spring 2021	Population and Society	SYD 3020
Fall 2020	Population Data	SYD 5133
Spring 2020	Climate Change and Society	SYA 4930
Spring 2020	Climate Change and Society	SYA 4930
Fall 2019	Population and Society	SYD 3020

Fall 2018 Population Data SYD 5133 Spring 2014 Family Demography and Public Policy HACE 4400/6400

INVITED PRESENTATIONS

UC - Berkeley (Feb 2021), UNC - Chapel Hill (Feb 2021), Temple University (Feb 2021), McGill University (Nov 2020), University of South Florida (Mar 2020), University of Pennsylvania (Feb 2020), University of Wisconsin-Madison (Oct 2019), Florida State University (Oct 2019), Drexel University (Sept 2019), Penn State University (May 2019), Environmental Grantmakers Alliance (Sept 2018), Rutgers University (Sept 2018, declined), University of Florida (Feb 2018, declined), Brown University (Dec 2017), Florida State University (Dec 2017), University of Texas at San Antonio (Dec 2017), Florida State University (Oct 2017), NOAA (Jul 2017), Texas A&M University (Nov 2016), University of Georgia (Mar 2016), Board of Regents of the University System of Georgia (Jan 2016), University of Georgia (Feb 2016), College of William & Mary (Apr 2015), Florida State University (Sep 2013), Testimony at the Georgia Legislature (Jun 2012), Federal Reserve Bank of Atlanta (Feb 2012)

SELECTED PRESS COVERAGE

2020 New York Times, Le Monde, The Nation, OneZero, Clean Technica, Quartz, Florida State News, Weather.com, Science News

Radio Ozy,

- 2019 New York Times, Bloomberg, Business Insider, Business Insider (again), Public Source, Denton Record-Chronicle, National Mortgage News, Fast Company, My San Antonio, Finance and Commerce, New Haven Register, Accuweather, WUFT, Coastal Review, Palm Beach Post
- 2018 Rolling Stone Magazine, <u>The Guardian</u>, <u>National Geographic</u>, <u>The Sun Sentinel</u>, <u>Climate Central</u>, <u>Tucson Online</u>, <u>Orlando Sentinel</u>, <u>Green Matters</u>, Bloomberg News
- Atlanta Business Chronicle, Atlanta Journal Constitution, UGA Research Magazine,
 Accuweather, Gatehouse Media, Scientific American, USA Today, U.S. News and World Report,
 Bloomberg, Salon, Forbes, United Press International, MSN, Business Insider, Mashable,
 IFL Science, Anthropocene Magazine, Daily Mail, Upworthy, New Scientist, New Scientist,
 Vice Magazine, Science Blog, Yahoo News, Climate Central, Common Dreams,
 Houston Chronicle, Technology.org, ArsTechnica, Think Progress, Climate News Network,
 Clean Technica, Clean Technica, Atlanta Business Chronicle, Phys.org, News Wise, Breitbart,
 Nature World News, Voice of America, Homeland Security News, Daily News and Analysis,
 Strait Times, Indian Express, Reuters, Post Online, Digital Journal, Bullfax.com, Eureka! Alert,
 Popular Science, New Orleans Times—Picayune, Seattle PI, Star Tribune, Star Tribune,
 Raw Story, Huffington Post, Latest Nigerian News, Alternet, Environmental Research Web,

Radio PRI Science Friday, WWNO NPR New Orleans, KUT NPR Austin, KUOW NPR Seattle, WUNC Chapel Hill, Yale Climate Connections, America Adapts Podcast, NPR Atlanta WABE 90.1

TV/Video WCTV Tallahassee, WPTV West Palm Beach

2016 Athens Banner Herald, Atlanta Journal Constitution, Atlanta Journal Constitution
(again), Interview with WABE 90.1, On Closer Look, Time Magazine, National Geographic,
National Geographic (again), National Geographic (again still), The Guardian,
The Guardian (again), New York Times, Forbes Magazine, Bloomberg News, USA Today,
Popular Science, Daily Mail, Wired Magazine, Los Angeles Times, Huffington Post,
Huffington Post (again), Newsweek, Newsweek (again), Brookings Institute, BBC,
Christian Science Monitor, San Francisco Gate, Baltimore Sun, MSN, Gawker, Climate Central,
Ars Technica, Vice Magazine, ZME Science, Triple Pundit, Climate News Network, Informs,

Daily Telegraph (Australia), Business Insider, Science Daily, Phys.org, Phys.org (again),
Boston Globe, Tampa Bay Times Live Science, World News SBS, Adelaide Now, Eureka! Alert,
Chicago Tribune, New Orleans Times—Picayune, Daily Press, The Spec, Shanghai Daily,
Yahoo News UK, Yahoo News India, Yahoo News, Yahoo News (again), Philly.com,
Courier Mail, Herald Sun, Technology.org, Star Tribune, Manilla Bulletin, Economic Times,
Times of India, Environmental Research Web, Straight Times, Morning Call, NT News,
The Australian, Reason.com, Mic.com, The Week, Star Tribune, Homeland Security News Wire,
Tech Times, AZO Clean Tech, HNGN, Sentinel Source, Irish Examiner, Spokesman-Review,
Pittsburgh Post-Gazette, E Science News, AOL News, News.com.au, Geelong Advertiser,
Charlotte Observer, Sacramento Bee, Inside Climate News, Der Standard, Latest Nigerian News,
CBS News, Seattle PI, Seattle PI, Seattle PI, Eco-Business, International Business Times,
Fusion Net, NY Post, Yahoo Finance

Radio NPR's Science Friday, KQED NPR Northern California, WNYC PRI NPR New York, Public Ratio International, BYU Radio

TV/Video NJ.com, Business Insider, CityLab

- 2015 <u>Atlanta Business Chronicle</u>, <u>Atlanta Business Chronicle</u>, <u>Charleston Post & Courier</u>, Georgia Political Review.
- 2014 Red & Black, New York Times, Columbus Ledger-Enquirer, Columbus Ledger-Enquirer (again), Huffington Post, Huffington Post (again), Macon Telegraph, Pew Charitable Trust.
- 2013 Georgia Trend, Georgia Municipal Association.
- 2012 University of Georgia, Bloomberg News.
- 2011 Chattanooga Times Free Press.