

# Mathew E Hauer

## Curriculum Vitae

November 17, 2021

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Google Scholar: [Profile](#)  
GitHub: [github.com/mathewhauer](https://github.com/mathewhauer)

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### 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

- 2021 Early Career Research Award, College of Social Sciences and Public Policy, Florida State University.
- 2021 Summer Institute in Computational Social Sciences, Princeton University.
- 2018 E. Walter Terrie Award, Southern Demographic Association.
- 2017 Excellence in Research Award, University of Georgia Graduate School.
- 2016 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

\*Student or Post-Doc.

26. **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." Forthcoming in *Nature Communications*.
25. Shannon, J., **Hauer M.**, Bagwell, G., & Abraham, A. "Racial Disparities for COVID19 Mortality in Georgia: Spatial Analysis by Age Based on Excess Deaths." *Social Science and Medicine*.
24. DeWaard J, **Hauer M.**, Fussell E, Curtis K, Whitaker S, McConnell K, Price K, Egan-Robertson D. "User Beware: Concerning Findings from Recent U.S. Internal Revenue Service Migration Data." *Population Research and Policy Review*.

23. **Hauer M.** & Mueller, V, Sheriff, G, & \*Zhong, Q. “More than a nuisance: measuring how sea level rise delays commuters in Miami, FL.” (2021). *Environmental Research Letters* 16: 064041.
22. **Hauer M.** & Santos-Lozada, AR. “Differential Privacy in the 2020 Census distorts COVID-19 mortality rates.” (2021). *Socius* 7: 2378023121994014.
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. (2021). “Simulated migrants move toward vulnerable coastlines in Bangladesh under all sea-level change scenarios through 2100.” *Environmental Research Letters* 16: 024045.
20. \*Landon, CM, Lyles RH, Scrovronick, NC, Abadi, AM, Bilotta R, **Hauer, M.**, Bell, JE, Gribble, MO. (2021). “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.” in *Modern Statistical Methods for Health Research*.
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* 40: 629-638.
18. Keenan, J. M. & **Hauer, M.**. (2020). “Resilience for whom? Demographic change and the re-development 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.
6. 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.**, \*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.** & Bohon, S. "Causal Inference in Population Trends: Searching for Demographic Anomalies in Big Data." [\[Preprint\]](#)
- Hauer M.**, Mueller, V., & Sheriff, G. "US Commuting delays from tidal flooding worsen with sea level rise."
- Hauer M.**, \*Jacobs, S., & Kulp, S. "Climate Migration Amplifies Demographic Change and Population Aging."
- Hauer M.**, Mueller, V., Sheriff, G., \*Zhong, Q., "Commuting delays from tidal flooding disproportionately affect minority populations in the United States."
- McFarland, M., **Hauer M.**, & \*Reuben, A., "Half of US Population Exposed to Adverse Lead Levels in Early Childhood."
- \*Markley, S., Holloway, S., Hafley, T., & **Hauer M.**, "Housing Unit and Urbanization Estimates for the Continental U.S. in Consistent Tract Boundaries, 1940-2019."

## Other

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

## GRANTS

**Grants Awarded**

\$796 801

2021	PI	Amplified Health Disparities in a Changing Climate. NLCHDD Pilot Grant.	\$20 000
2021	PI	Climate Migration Projections for the Louisiana Coastal Master Plan.	\$49 999
2020	PI	Population Projections for the Louisiana Coastal Master Plan.	\$38 437
2019	Co-PI	Impassable During High Water: Sea Level Rise, Commuting, and Climate Gentrification. NSF CoPe	\$249 892
	Co-I	Sea Grant RCN: PEople on the Move in a Changing Climate (PEMOCC). NSF CoPe	\$0
	PI	Projecting the Sociodemographic Characteristics of those Impacted by Sea Level Rise in the United States. FSU FYAP	\$20 000
	PI	Demographic Modelling of Puerto Rico. Harvard/RAND	\$20 000
2017	Co-I	Forecast of the Timing, Locations, Sequence and Likeliest Destinations of Populations Displaced by Sea Level Rise and Coastal Extremes. SESYNC	\$0
2016	Co-I	Sustainability in Chesapeake Bay shorescapes: climate change, management decisions, and ecological functions. – NSF Coastal SEES. Total \$1,640,152	\$175 295
2012	Co-PI	Assessment and Application of the Social Vulnerability Index for Coastal 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	\$67 320
	Co-PI	Understanding social attitudes and prioritizing geo-spatial risks for climate adaptation outreach in coastal Georgia.– Georgia SEAGrant	\$126 858
2011	PI	Projecting Hispanic Economic Outcomes in Georgia, 2000-2030.– Poverty and Economy Grants, University of Georgia	\$29 000

**Under Review or In Prep**

\$352 045

2022	Co-PI	Focused CoPe: NEAULARRISCG (from Resilience to Retreat through Integration of Science, Communities, and Governance). NSF CoPe	\$352 045
2022	PI	Aging and Climate Change. NIH K01	\$500 000

**Contracts Awarded**

\$1 474 722

2018	PI	Georgia Governor's Office of Planning and Budget, Population Projections.	\$120 519
2016	PI	Georgia Gwinnett College Data Analysis Project, Georgia Gwinnett College.	\$242 349
	PI	Data Research, Analysis, and Modeling Project. Board of Regents of the University System of Georgia.	\$394 304
	PI	Population Projections for Coweta County and cities of Newnan and Sequia. Coweta Water and Sewer Authority	\$14 550
2015	PI	Extended Population Projections for Carroll County, GA. Georgia DNR.	\$8 550
	PI	Small Area Population Projections for the Bear Creek Reservoir in South Fulton County. Law Offices of Andrea P. Gray	\$8 550
	PI	Community Needs Assessment. Tallatoona Community Action Partnership	\$12 400
	PI	Food Insecurity in 2020 for the Atlanta Food Bank Service Area. Atlanta Community Food Bank	\$2 000
	PI	Population Projections for the State of Georgia, 2015-2050. Georgia Governor's Office of Planning and Budget	\$100 000
2014	PI	Enrollment Projections for the University System of Georgia 2014-2024. Board of Regents of the University System of Georgia	\$30 000

PI 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

## Rejected Grants

2020	PI	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 Integration of Science, Communities, and Governance). NSF CoPe	\$352 045
	Co-PI	Large-Scale COPE: SMART AND RESILIENT COASTAL COMMUNITIES (SMART COAST). NSF CoPe	\$364 667
2018	PI	Research and engagement to build resiliency in Gulf Coast Cities as destinations for coastal migrants. NASEM	\$778 594

## TEACHING EXPERIENCE

Population and Society	SYD 3020	Fall 2018, Fall 2019, Spr 2021
Climate Change and Society	SYA 4930	Spr 2020, Fall 2021, Spr 2022
Population Data	SYD 5133	Fall 2018, Fall 2020, Fall 2021
Family Demography and Public Policy	HACE 4400/6400	Spr 2014

## PRESENTATIONS

Cornell University (Apr 2022), Congressional Briefing (Dec 2021), UW - Madison (Nov 2021), UT - Knoxville (Oct 2021), Government Accountability Office (Jul 2021), Columbia University (June 2021), University of Miami (Apr 2021), 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

2021 [The Atlantic](#), [Citizen Times](#), [Market Watch](#), [WoodTV](#), [Brink](#), [NBC News](#), [The News Herald](#), [Bridge MI](#), [Cambridge Day](#), [Inside Climate News](#), [CNN](#),

Radio [WUNC](#), [NPR](#),

2020 [New York Times](#), [Le Monde](#), [The Nation](#), [OneZero](#), [Clean Technica](#), [Quartz](#), [Florida State News](#), [Weather.com](#), [Science News](#), [ProPublica](#)

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](#), [The Guardian](#), [National Geographic](#), [The Sun Sentinel](#), [Climate Central](#), [Tucson Online](#), [Orlando Sentinel](#), [Green Matters](#), [Bloomberg News](#)
- 2017 [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–Picaune](#), [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–Picaune](#), [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 [Atlanta Business Chronicle](#), [Atlanta Business Chronicle](#), [Charleston Post & Courier](#), [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 [GeorgiaTrend](#), [Georgia Municipal Association](#).  
2012 [University of Georgia](#), [Bloomberg News](#).  
2011 [Chattanooga Times Free Press](#).

## **SERVICE**

Member, CDPH Executive Committee (2020-present)  
Member, Government and Public Affairs Committee, Population Association of America (2018-2022)  
Board Member, Southern Demographic Association (2017–2019)  
Chair, Federal and State Cooperative for Population Projections (2016–2017)

## **STUDENTS**

### **Doctoral Committee Chair**

Wirth, Sam (2023)

### **Doctoral Committee Member**

Jacobs, Sunshine (2023)

Masek, Marty (2022)

### **Master's Committee Chair**

Trimble, Jonathan (2021)

Russ, Avery (2021)

### **Master's Committee Member**

Vidal, Corina (2020)

Ix, Alyssa (2019)

Ross, Kyle (2020)

Rody, Patrick (2019; UC - Boulder)

### **Undergraduate Honor's Committee Chair**

Molinari, Matthew (2021)