

AARON B. FLORES
School of Geographical Sciences & Urban Planning (SGSUP)
Arizona State University
Lattie F. Coor Hall
975 S Myrtle Ave, Tempe, AZ 85281
aaron.b.flores@asu.edu

CURRENT APPOINTMENT

Arizona State University
Presidential Postdoctoral Scholar, School of Geographical Sciences & Urban Planning

EDUCATION

2018-2022 **Ph.D.**, Department of Geography, University of Utah
Dissertation Title: Geographical Assessment of Federally-Overlooked Flood Risk Inequities in the Conterminous United States.

2016-2018 **M.S.**, Department of Geosciences, Texas Tech University
Thesis Title: Measuring Vulnerability to Extreme Heat in Lubbock, Texas Using a Heat Vulnerability Index.

2010-2015 **B.A.**, Department of Geosciences, Texas Tech University

PUBLICATIONS

Note: undergraduate coauthors are marked with *

Flores, A., Collins, T., Grineski, S., Amodeo, M., Porter, J., Sampson, C., Wing, O. (2022). Federally-Overlooked Flood Risk Inequities in Houston, Texas: Novel Insights based on Dasymetric Mapping and State-of-the-Art Flood Modeling. *Annals of the American Association of Geographers*. doi.org/10.1080/24694452.2022.2085656.

Shaker, Y., Grineski, S., Collins, T., **Flores, A.** (2022). Redlining, Racism, and Food Access in US Urban Cores. *Agriculture and Human Values*. doi.org/10.1007/s10460-022-10340-3.

Mullen, C., **Flores, A.**, Grineski, S., Collins, T. (2022). Exploring the Distributional Environmental Justice Implications of a Non-Governmental Network of Air Quality Monitoring Sensors in Los Angeles County. *Environmental Research*, 206, 112612.

Renteria, R., Grineski, S., Collins, T., **Flores, A.**, and *Trego, S. (2021). Social disparities in neighborhood heat in the Northeast United States. *Environmental Research*, 203, 111805.

Flores, A., Collins, T., Grineski, S., *Griego, A., Mullen, C., Nadybal, S., Renteria, R., Rubio, R., Shaker, Y., *Trego, S. (2020). Environmental Injustice in the Disaster Cycle: Hurricane Harvey and the Texas Gulf Coast. *Environmental Justice*, 14(2), 146-158.

Flores, A., *Castor, A., Grineski, S., Collins, T., Mullen, C. (2020). Petrochemical releases disproportionately affected socially vulnerable populations along the Texas Gulf Coast after Hurricane Harvey. *Population and Environment*, 42(3), 279-301.

*Griego, A., **Flores, A.**, Collins, T., Grineski, S. (2020). Social vulnerability, disaster assistance, and recovery: A population-based study of Hurricane Harvey in Greater Houston, Texas. *International Journal of Disaster Risk Reduction*, 51, 101766.

Flores, A., Collins, T., Grineski, S., Chakraborty, J. (2020). Disparities in Health Impacts and Access to Healthcare among Houston Area Residents after Hurricane Harvey. *Public Health Reports*, 135(4), 511–523.

Flores, A., Collins, T., Grineski, S., Chakraborty, J. (2020). Social vulnerability to Hurricane Harvey: Unmet needs and adverse event experiences in Greater Houston, Texas. *International Journal of Disaster Risk Reduction*, 46, 101521.

Grineski, S., **Flores, A.**, Collins, T., Chakraborty, J. (2020). The impact of Hurricane Harvey on Greater Houston households: Comparing pre-event preparedness with post-event health effects, event exposures, and recovery. *Disasters*, 44(2), 408-432.

Collins, T., Grineski, S., Chakraborty, J., **Flores, A.** (2019). Environmental injustice and Hurricane Harvey: a household-level study of socially disparate flood exposures in Greater Houston, Texas, USA. *Environmental Research*, 179, 108772.

Book Reviews and Chapters

Flores, A. 2022. Book Review—Flood Risk Management: Global Case Studies of Governance, Policy, and Communities. *Water Economics and Policy*, 8(2), 2180004.

Nadybal, S., Grineski, S., Collins, T., *Castor, A., **Flores, A.**, *Griego, A., Mullen, C., Rubio, R. (2020). Environmental Justice in the US and Beyond: Frameworks, Evidence, and Social Action. In: Lersch, K., Chakraborty, J. (eds) *Geographies of Behavioural Health, Crime, and Disorder*. GeoJournal Library, vol 126. Springer, Cham.

Chakraborty, J., Collins, T., **Flores, A.**, Grineski, S. *Forthcoming*. Hurricanes, Floods, and Environmental Inequality. In: Long, M., Lynch, M., Stretesky, P. (eds) *Handbook of Inequality and the Environment*.

Selected Articles Under Review/In Progress

Flores, A., Collins, T., Grineski, S., Amodeo, M., Porter, J., Sampson, C., Wing, O. *Under Review*. Federally-Overlooked Flood Risk Inequities in the Conterminous United States. *Global Environmental Change*.

Flores, A., Collins, T., Grineski, S., Amodeo, M., Porter, J., Sampson, C., Wing, O. *In Progress*. Environmental Justice and Communities at Risk to Federally-Overlooked Flooding: Spatial Analysis of the Conterminous United States.

RESEARCH MENTORING EXPERIENCE

Graduate Student Research Training Mentor | Center for Natural and Technological Hazards. University of Utah. August 2018–May 2022.

– Shaylynn Trego | Geography Major | January 2020–May 2021.

- Angel Griego | Sociology Major | May 2019–July 2020.
- Alyssa Castor | Environmental Studies Major | June 2019–June 2020.

Graduate Student Training Coordinator | Health, Air Pollution, and Population Initiative in Education and Science Training (HAPPIEST). National Institutes of Health, National Institute of Environmental Health Sciences, R25 (Award #: R25ES031497). (Multi-PI: Sara Grineski and Tim Collins) May 2021–August 2021.

- Deja Gatson | Environmental Studies Major | May 2021–August 2021.
- Kevin Ramos | Geography/GIS Major | May 2021–August 2021.

Facilitator | Entering Research Training Program for Undergraduate Research Trainees | HAPPIEST | Curriculum through the *Center for the Improvement of Mentored Experiences in Research, Wisconsin Center for Education Research* | University of Utah. May 2021–August 2021.

Trainee | Entering Mentoring Training Program. | HAPPIEST | Curriculum through the *Center for the Improvement of Mentored Experiences in Research, Wisconsin Center for Education Research*, Salt Lake City, UT. May 2021–August 2021.

TEACHING EXPERIENCE

Guest Lecture | Geography of Hazard Risk. *Guest Speaker for AP Human Geography*. Salt Lake Center for Science Education. Salt Lake City, UT. December 8, 2021.

Guest Lecture | Flood Risk Inequities in Houston, Texas: Novel insights based on dasymetric mapping and state-of-the-art flood modeling. *Guest Speaker for Data Acquisition and Management*. Department of Geosciences. Salt Lake Community College. Salt Lake City, UT. April 13, 2021.

Guest Lecture | Hurricane Harvey: Impacts on vulnerable populations. *Guest Speaker for Introduction to Environment and Sustainability*. Environmental and Sustainability Studies. University of Utah. Salt Lake City, UT. February 16, 2021.

Teaching Assistant | Environmental Health Disparities | Department of Sociology | University of Utah. September 2020–December 2020.

Teaching Assistant | Physical Geography Lab | Department of Geosciences | Texas Tech University. August 2016–May 2018.

RESEARCH EXPERIENCE

Predoctoral Fellow | Ford Foundation | National Academies of Sciences, Engineering and Medicine. August 2020–May 2022.

Graduate Research Affiliate | Department of Geography | Center for Natural and Technological Hazards. University of Utah. August 2020–May 2022.

GIS Data Analyst | CNC Catastrophe & National Claims. May 2018–August 2020.

Graduate Research Assistant | Department of Geography | Center for Natural and Technological Hazards. University of Utah. August 2018–August 2020.

GIS Technician | City of Lubbock GIS & Data Services Department. June 2015–September 2017.

Intern | Texas Tech University Climate Science Center. August 2015–August 2016.

Intern | South Central Climate Science Center. May 2015–June 2015.

FELLOWSHIPS AND AWARDS

- 2022 **CGS/ProQuest Distinguished Dissertation Award in the Social Sciences Category** (\$500)
Flores, A. Geographical Assessment of Federally-Overlooked Flood Risk Inequities in the Conterminous United States. University of Utah.
- 2022 **Rosalind Franklin Society Award in Science** (\$1,000)
Flores, A., Collins, T., Grineski, S., *Griego, A., Mullen, C., Nadybal, S., Renteria, R., Rubio, R., Shaker, Y., *Trego, S. (2020). Environmental Injustice in the Disaster Cycle: Hurricane Harvey and the Texas Gulf Coast. *Environmental Justice*, 14(2), 146-158.
- 2020-2022 **Ford Foundation Predoctoral Fellowship** (\$27,000/year)
Ford Foundation, National Academies of Science, Engineering, and Medicine.
- 2021 **Best Graduate Student Presentation at Student Research Day**
Flores, A. Federally Overlooked Flood Risk in Houston, Texas: Environmental Justice Implications College of Social and Behavioral Science, University of Utah.
- 2019-2020 **Graduate Student Excellence in Research**
Department of Geography, University of Utah.
- 2019-2020 **Hebert W. Gustafson Endowed Graduate Fellowship** (\$7,950)
College of Social and Behavioral Science, University of Utah.
- 2019 **Jeanne X. Kasperson Award for Outstanding Graduate Paper in Hazards, Risks, and Disasters Specialty Group**
Flores, A., Collins, T., Grineski, S., Chakraborty, J. Disparities in Health Impacts and Access to Care among Houston Area Residents after Hurricane Harvey
American Association of Geographers Annual Meeting, Washington D.C.
- 2017-2018 **Sustainability Scholarship** (\$1,000)
University Student Housing, Texas Tech University.
- 2017-2018 **Gary Elbow Scholarship** (\$300)

Department of Geography, Texas Tech University.

2017 **Climate Engagement Program Fellow**
University of California at Santa Cruz.

PRESENTATIONS

Invited

Flores, A. Environmental Justice and Federally-Overlooked Flood Risk. *Bill Anderson Fellows Fall Workshop*. Arizona State University. Tempe, AZ. October 13, 2022.

Flores, A. Geographical Assessment of Federally-Overlooked Flood Risk Inequities in the Conterminous United States. *School of Geography, Development & Environment Colloquium*. University of Arizona. Tucson, AZ. September 23, 2022.

Flores, A. Environmental Justice and Flood Hazards: Future Research Directions. Research Incubator, *North American Alliance of Hazards and Disaster Research Institutes*. May 13, 2022.

Flores, A. Geographical Assessment of Flood Risk Inequities in the Conterminous United States. Interdisciplinary Studies Academic Exchange Session, *Conference of Ford Fellows*. October 9, 2020.

Flores, A., Collins, T., Grineski, S., Chakraborty, J. Hurricane Harvey: Impacts on vulnerable populations. *HurriCon: Science at the Intersection of Hurricanes and the Populated Coast*. East Carolina University. Greenville, NC. February 27–28, 2020.

Grineski, S., Collins, T., **Flores, A.**, Mullen, C., Rubio, R., *Trego, S. Understanding Environmental Justice. *Qualtrics event for Hispanic Heritage Month*. September 23, 2020.

Grineski, S., **Flores, A.**, Collins, T., Chakraborty, J. How Mitigation Helped Houston Households in Hurricane Harvey. *Natural Hazards Center: Making Mitigation Work Webinar Series*. University of Colorado-Boulder. February 11, 2020.

National

Shaker, Y., Grineski, S., Collins, T., **Flores, A.** Redlining, Racism, and Food Access in US Urban Cores. *American Sociological Association Annual Meeting*. August 2022.

Renteria, R., Grineski, S., Collins, T., *Trego, S., **Flores, A.** Neighborhood heat disparities in the Northeast United States. *American Sociological Association Annual Meeting*. August 2021.

Mullen, C., Grineski, S., Collins, T., **Flores, A.** Environmental Justice Implications of a Non-Governmental Network of Air Quality Monitoring Sensors in Los Angeles County. *American Sociological Association Annual Meeting*. August 2021.

Flores, A., Collins, T., Grineski, S., Sampson, C., Wing, O. Flood Risk Inequities in Houston, Texas: Novel insights based on dasymetric mapping and state-of-the-art flood modeling.

American Association of Geographers Annual Meeting, Seattle, WA. April 7–11, 2021.

*Trego, S., Grineski, S., Collins, T., **Flores, A.**, Renteria, R. Disparities in Extreme Heat Exposure in Maricopa County, Arizona: The Intersection of Race/Ethnicity and Older Age. *American Association of Geographers Annual Meeting*, Seattle, WA. April 7–11, 2021.

Flores, A., Collins, T., Grineski, S., Chakraborty, J. Social vulnerability to Hurricane Harvey: Unmet needs and adverse event experiences in Greater Houston, Texas. *American Association of Geographers Annual Meeting*, Denver, CO. [Conference cancelled]. April 6–10, 2020.

Grineski, S., **Flores, A.**, Collins, T., Chakraborty, J. The impact of Hurricane Harvey on Greater Houston Households: Comparing pre-event preparedness with post-event health effects, exposure experiences and recovery. *American Sociological Association Annual Meeting*, New York City, NY. August 2019.

Flores, A., Collins, T., Grineski, S., Chakraborty, J. Disparities in Health Impacts and Access to Care Among Houston Area Residents After Hurricane Harvey. *American Association of Geographers Annual Meeting*, Washington D.C. April 3–7, 2019.

Flores, A. Measuring Vulnerability to Extreme Heat in Lubbock, Texas Using a Heat Vulnerability Index. *American Association of Geographers Annual Meeting*, New Orleans, LA. April 10–14, 2018.

Flores, A. Creating a Heat Vulnerability Index for Lubbock, Texas. *American Association of Geographers Annual Meeting*, Boston, MA. [Poster presentation]. April 5–9, 2017.

Internal/Regional

Flores, A. Federally Overlooked Flood Risk in Houston, Texas: Environmental Justice Implications. *Student Research Day*. College of Social and Behavioral Science. University of Utah. Salt Lake City, UT. April 28, 2021.

Flores, A., Collins, T., Grineski, S., Chakraborty, J. Social vulnerability to Hurricane Harvey: Unmet needs and adverse event experiences in Greater Houston, Texas. *Utah Disaster Resilience Symposium*. University of Utah. Salt Lake City, UT. [Poster presentation]. November 21, 2019.

Flores, A., Collins, T., Grineski, S., Chakraborty, J. Disparities in Health Impacts and Access to Care Among Houston Area Residents After Hurricane Harvey. *Natural Hazards Center Researchers Meeting*. University of Colorado-Boulder. Broomfield, CO. July 17–18, 2019.

*Castor, A., **Flores, A.**, Mullen, C., Grineski, S., Collins, T. Social Disparities in Exposure to Accidental Releases of Chemical Toxins in the Texas Gulf Coast Area After Hurricane Harvey. *Southwest Social Science Association*. San Diego, CA. October 2019.

*Griego, A., **Flores, A.**, Grineski, S., Collins, T. Social Vulnerability, Recovery Aid and the

Speed of Recovery; Results from a survey conducted after Hurricane Harvey in Greater Houston, Texas. *Southwest Social Science Association*. San Diego, CA. October 2019.

Flores, A., Collins, T., Grineski, S., Chakraborty, J. Disparities in Health Impacts and Access to Care Among Houston Area Residents After Hurricane Harvey. *Global Change & Sustainability Center 2019 Environment & Sustainability Research Symposium*, University of Utah, Salt Lake City, UT. [Poster presentation]. February 13, 2019.

SERVICE AND PROFESSIONAL TRAINING

Postdoctoral Affiliate | Urban Climate Research Center, School of Geographical Sciences & Urban Planning.

Postdoctoral Affiliate | Equitable Places Lab, School of Geographical Sciences & Urban Planning.

Peer Reviewer | *Environmental Justice, Landscape and Urban Planning, Journal of Environmental Studies and Sciences, Climate Risk Management*.

Co-chair | Committee for Equity, Diversity, and Inclusion, College of Social and Behavioral Science, University of Utah, 2019–2022.

Student Member | Student Advisory Committee for faculty Retention, Promotion, and Tenure, Department of Geography, University of Utah, 2019–2020.

Treasurer | Geography Club, University of Utah, 2018–2022.

Trainee | Community Resilience Workshop, AWR – 228 and Community Planning for Disaster Recovery, AWR – 356: *National Disaster Preparedness Training Center, Department of Homeland Security, and Federal Emergency Management Agency*, Salt Lake City, UT, February 8 and 22, 2019.