Elías Gálvez-Arango

egalvez@alumni.stanford.edu
eliasgalvezarango.com

Education

Stanford University | B.A. Urban Studies with Honors   2021
          Minor in Modern Languages (Portuguese and Spanish)

Peer-Reviewed Articles

Gálvez-Arango, E. (2025). Access to public transportation at the regional scale: An analysis of bus services in Minas Gerais State, Brazil. *Case Studies on Transport Policy*, *19*, 101348. https://doi.org/10.1016/j.cstp.2024.101348

Jennings, W. C., Gálvez-Arango, E., Prieto, A. L., & Boehm, A. B. (2020). CrAssphage for fecal source tracking in Chile: Covariation with norovirus, HF183, and bacterial indicators. *Water Research X*, *9*, 100071. https://doi.org/10.1016/j.wroa.2020.100071

Kolar, M. A., Goh, A., Gálvez-Arango, E., Morris, B., Romano, A., Turley, S., Colello, S., Penniman, W., Boffa, J., Wang, C., Depaul, G., & Keene, K. (2019). Archaeoacoustics Fieldwork for Aural Heritage Conservation: Collaborative Distributed Sound-Sensing at Chavín de Huántar, Perú. *Change Over Time*, *9*(2), 164–191. https://doi.org/10.1353/cot.2019.0010

Other Publications

Emmons, C., & Gálvez-Arango, E. (2025). ElectionGuide Codebook, Version 3. International Foundation for Electoral Systems. https://electionguide.org/p/methodology/.

Gálvez-Arango, E., Balbuena, N., & Aylward, B. (2022). WASH Access and its Determinants: Population Growth, Water Scarcity, and Foreign Aid. Mercy Corps Working Paper.

Gálvez-Arango, E. (2021). An Atlas of Urban Latin America. In *Stanford University Urban Studies Capstone Projects and Theses*. https://purl.stanford.edu/bp765sr9968

Selecting Comparison Districts. (2020). Stanford Program on Water, Health & Development. Conrad N. Hilton Foundation Safe Water Initiative Briefing Series. https://water.stanford.edu/selecting-comparison-districts.

Research Experience

Research Fellow – Brazil | Fulbright Program   2022
- Performed first statewide study of intermunicipal bus access in Brazil
- Identified municipal characteristics associated with high or low bus access using spatial, demographic, economic data and non-parametric statistics
- Reviewed academic literature, transportation law and policy documents

Research Assistant | Jenna Davis Research Group (Stanford Engineering)   2019-2020
- Collected and visualized infrastructure accessibility and poverty data in QGIS, Excel
- Developed site selection criteria for multi-country piped water experiment
- Designed maps and infographics for broad audience of international stakeholders

Research Assistant | Boehm Research Group (Stanford Engineering)   2019
- Mapped land use, informal settlement, and hydrologic resources in Santiago de Chile
- Planned water quality sampling campaign in consultation with local stakeholders
- Processed sample data and designed maps for journal article in *Water Research X*

Research Assistant | Salinas History Project - Dr. Carol McKibben   2018
- Analyzed census data with spatial statistics to identify residential segregation
- Coordinated field visits and work assignments for team of 10 research assistants
- Presented findings to Salinas City Council and Human Cities Expo

Research Assistant | Chavín de Huántar Archaeological Project   2018
- Excavated, identified, and organized artifacts throughout World Heritage Site
- Designed and conducted acoustic pilot experiment in ceremonial plaza
- Provided GIS support for specimen inventory and landslide preparedness project

Professional Experience

Bus Performance Analyst | Washington Metropolitan Area Transit Authority   2025 – present
- Analyzes time-series bus service and fleet data to identify performance trends
- Conducts ad hoc quantitative analyses via SQL and R
- Designs automated, user-friendly Power BI reports to inform agency leaders

Democracy Data Officer | International Foundation for Electoral Systems   2023 - 2025
- Analyzed survey data on democratic governance in R and electoral laws
- Maintained global election database and tracked 120+ national elections each year
- Created data visualizations (dashboards, apps, maps) and technical documentation
- Liaised with donors, government and civil society partners, and database users

Water Resources and WASH Intern | Mercy Corps   2021-2022
- Analyzed secondary data on water services and foreign aid in 148 countries
- Conducted hydrologic analysis of proposed well and dam projects in Jordan

- Provided GIS support: spatial analysis, cartography, QGIS tutorials

Conference Participation

Análise da Acessibilidade do Sistema de Ônibus Intermunicipal de Minas Gerais [Accessibility Analysis of the Intermunicipal Bus System of Minas Gerais]. Elías Gálvez-Arango & Daniela Antunes Lessa. ANPET Congresso de Pesquisa e Ensino em Transportes. *Poster Presentation.* Fortaleza, Brazil. November, 2022.

Mapping the Public Bus System of Minas Gerais, Brazil: Processing Difficult Datasets with OpenStreetMap. Elías Gálvez-Arango. OpenStreetMap State of the Map 2022. *Selected Poster Exhibition.* Virtual. August, 2022.

Awards and Grants

Fulbright US Student Research Grant | Fulbright Commission in Brazil	2022
Outstanding Thesis Presentation | Stanford Program on Urban Studies	2021
Phi Beta Kappa | Stanford University	2020
Stanford Major Grant | Stanford University	2020
Chavín de Huántar Field Grant | Stanford Archaeological Center	2018
General Henry H. Arnold Education Grant | Air Force Aid Society	2017-2021

Service

Fulbright Applicant Mentor | Stanford Office of Global Scholarships	2022 – present
Model Scholar Selection Committee | Stanford Program on Urban Studies	2020
Citizenship Exam Tutor | Immigration Institute of the Bay Area	2018

Computational Skills

Programming	R, SQL, Git, DAX
Geographic Information Systems	QGIS, ArcGIS, GeoDa, Google Earth
Data Visualization	Power BI, Excel, Looker Studio, ArcGIS Storymaps

Languages

English	Native
Portuguese	Professional: read, write, listen, speak
Spanish	Professional: read, write, listen, speak
French	Professional: read, listen | Intermediate: write, speak