

Juan Armando Torres Munguía, PhD

✉ ja.torresmunguia@gmail.com | 🌐 juan-torresmunguia.netlify.app | 📞 0000-0003-3432-6941 | 📄 jatorresmunguia

Education

- PhD in Applied Statistics and Empirical Methods, Georg-August-Universität Göttingen** 2023
Thesis: "Essays on structured additive regression models with applications in development economics" (*Summa cum laude*)
Supervisors: Prof. Inmaculada Martínez-Zarzoso, Prof. Konstantin Wacker, and Prof. Thomas Kneib.
- Master in Applied Statistics, Instituto Tecnológico y de Estudios Superiores de Monterrey** 2013
Research project: "Comparison of imputation methods for handling missing income data and their impact on poverty"
- Bachelor of Economics, Universidad Autónoma de Coahuila** 2010
Thesis: "Determinants of migrant's remittances" (With distinction)

Work experience

- Research analyst** Dec 2024 - Current
Internal Displacement Monitoring Centre
Norwegian Refugee Council
- Quantitative researcher (data scientist)** May 2022 - Dec 2023
Managing Exits from Armed Conflict
United Nations Institute for Disarmament Research
- Research assistant** Oct 2016 - Dec 2022
Ibero-America Institute for Economic Research
Georg-August-Universität Göttingen
- Data analyst** Feb 2021 - May 2021
Regional Office for Central America, North America and the Caribbean
International Organization for Migration
- Project assistant (Statistician)** Mar 2014 - Mar 2016
Center of Excellence in Statistical Information on Government, Crime, Victimization and Justice
United Nations Office on Drugs and Crime
- Research assistant** Aug 2011 - Jul 2013
School of Government and Public Transformation
Instituto Tecnológico y de Estudios Superiores de Monterrey

Publications

PEER-REVIEWED JOURNAL ARTICLES

- Tonnelier, M.; Delforge, D.; Below, R.; **Torres Munguía, J.**; Saegerman, C.; Wathelet, V.; van Loenhout, J.; Speybroeck, N. (2025). What makes an epidemic a disaster: the future of epidemics within the EM-DAT International Disaster Database. *BMC Public Health*, 25 (1). <https://doi.org/10.1186/s12889-024-21026-2>
- Torres Munguía, J.** (2024). Identifying Gender-Specific Risk Factors for Income Poverty across Poverty Levels in Urban Mexico: A Model-Based Boosting Approach. *Social Sciences*, 13 (3). <https://doi.org/10.3390/socsci13030159>
- Torres Munguía, J.** (2024). An analysis of the risk factors for intimate partner sexual violence against women and girls in Mexico. *Journal of Gender-Based Violence*, (published online ahead of print 2024). <https://doi.org/10.1332/23986808Y2024D00000031>
- Torres Munguía, J.** (2024). A model-based boosting approach to risk factors for physical intimate partner violence against women and girls in Mexico. *Journal of Computational Social Science*. <https://doi.org/10.1007/s42001-024-00292-5>
- Torres Munguía, J.**; Badarau, F.; Díaz Pavez, L.; Martínez-Zarzoso, I.; Wacker, K. (2022). A global dataset of pandemic- and epidemic-prone disease outbreaks. *Scientific Data*, 9 (1). <https://doi.org/10.1038/s41597-022-01797-2>
- Torres Munguía, J.**; Martínez-Zarzoso, I. (2022). Determinants of Emotional Intimate Partner Violence against Women and Girls with Children in Mexican Households: An Ecological Framework. *Journal of Interpersonal Violence*, 37 (23-24). <https://doi.org/10.1177/08862605211072179>
- Torres Munguía, J.**; Martínez-Zarzoso, I. (2021). Examining gender inequalities in factors associated with income poverty in Mexican rural households. *PloS One*, 16 (11). <https://doi.org/10.1371/journal.pone.0259187>
- Torres Munguía, J.** (2014). Comparison of Imputation Methods for Handling Missing Categorical Data with Univariate Pattern. *Revista de Métodos Cuantitativos para la Economía y la Empresa* (17). <https://doi.org/10.46661/revmetodoscuanteconomia.2196>

WORKING PAPERS

1. **Torres Munguía, J.**; Hesselman, M.; Martínez-Zarzoso, I.; Ruysen, I. (2024). Mapping Energy Poverty Measures During the COVID-19 Pandemic: A New Global Panel Dataset. *International Network for Economic Research Working Papers*, 2024.04. Available at: <https://infer-research.eu/wp-content/uploads/2024/04/WP2024.04.pdf>
2. Kleffmann, J.; Batault, F.; **Torres Munguía, J.**; O'Neil, S.; Althuis, J.; Shakur, M.; Hallahan, A.; Salama, H.; Coulibaly, M. (2023). Factors Driving Weapons Holding in the North East of Nigeria. *United Nations Institute for Disarmament Research Findings Report*, 33. <https://doi.org/10.37559/MEAC/23/11>
3. Parry, J.; Khoshnaw, Y.; O'Neil, S.; **Torres Munguía, J.** (2023). Coming Home: The Return and Reintegration of Families with Perceived ISIL Affiliation in Iraq. *United Nations Institute for Disarmament Research Findings Report*, 28. Available at: <https://unidir.org/publication/coming-home-the-return-and-reintegration-of-families-with-perceived-isil-affiliation-in-iraq-findings-report-28/>
4. **Torres Munguía, J.**; Bukar, M.; Yetcha Ajimi Badu, F.; O'Neil, S.; van Broeckhoven, K. (2023). The Prospects for Remote Assessment: A Comparison of Phone vs In-Person Interviews in Nigeria. *United Nations Institute for Disarmament Research Findings Report*, 29. Available at: https://unidir.org/wp-content/uploads/2023/09/UNIDIR_MEAC_Findings_Report_29_Prospects_Remote_Assessment.pdf
5. van Broeckhoven, K.; O'Neil, S.; Punton, N.; **Torres Munguía, J.**; Yetcha Ajimi Badu, F.; Bukar, M.; Madhuraj, A. (2023). Child Exits from Armed Groups in the Lake Chad Basin. *United Nations Institute for Disarmament Research Findings Report*, 31. <https://doi.org/10.37559/MEAC/23/05>
6. Parry, J.; Khoshnaw, Y.; O'Neil, S.; **Torres Munguía, J.**; Genat, M. (2022). The Road from Al Hol Camp: Reflections on the Iraqi Experience. *United Nations University Findings Report*, 24. Available at: <https://unidir.org/publication/the-road-home-from-a-l-hol-camp-reflections-on-the-iraqi-experience-findings-report-24/>
7. Punton, N.; **Torres Munguía, J.**; van Broeckhoven, K.; O'Neil, S.; Bukar, M.; Yetcha Ajimi Badu, F.; Madhuraj, A.; Ali, S. (2022). Child Recruitment in the Lake Chad Basin. *United Nations University Findings Report*, 22. Available at: <https://unidir.org/publication/child-recruitment-in-the-lake-chad-basin-findings-report-22/>
8. **Torres Munguía, J.**; Martínez-Zarzoso, I. (2020). What Determines Poverty in Mexico?: A Quantile Regression Approach. *Diskussionsbeiträge des Ibero-America Institute for Economic Research - Georg-August-Universität Göttingen*, 246. Available at: <https://www.econstor.eu/handle/10419/217231>
9. **Torres Munguía, J.**; Martínez-Zarzoso, I. (2018). What is behind homicide gender gaps in Mexico? A spatial semiparametric approach. *Diskussionsbeiträge des Ibero-America Institute for Economic Research (IAI) - Georg-August-Universität Göttingen*, 236. Available at: <https://www.econstor.eu/handle/10419/178674>
10. Vilalta Perdomo, C.; Castillo, J.; **Torres Munguía, J.** (2016). Violent Crime in Latin American Cities. *Inter-American Development Bank Discussion Paper*, 474. <https://doi.org/10.18235/0007973>

Professional service

Member of the Scientific and Technical Advisory Group (STAG)

Mar 2023 - Current

Emergency Events Database (EM-DAT)

Centre for Research on the Epidemiology of Disasters and the United States Agency for International Development

Visiting researcher

Jul 2022 - Aug 2022

Mapping energy poverty measures during the COVID-19 pandemic: A new global panel dataset

Rijksuniversiteit Groningen. Groningen, Netherlands

Visiting researcher

Jun 2023 - Jul 2023

A global dataset of pandemic- and epidemic-prone disease outbreaks

Université de Bordeaux. Bordeaux, France

Languages

Spanish: Mother tongue

English: Proficient

German: Advanced

Italian: Intermediate

French: Intermediate

Portuguese: Basic

Skills

Programming: R, Git, GitHub, LaTeX

Data visualization: ggplot, Shiny, PowerBI, Tableau

Web development: RMarkdown, quarto, HTML, CSS, JavaScript

Other: Office (Word, Excel, Power Point)

Last updated: February 2025