

Juan Armando TORRES MUNGUÍA, PhD

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EDUCATION

- Ph.D. 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*).
Committee: Prof. Inmaculada Martínez-Zarzoso, Prof. Konstantin Wacker, and Prof. Thomas Kneib.
- M.Sc. 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".
- B.A. Economics.** Universidad Autónoma de Coahuila. 2010
Thesis: "Determinants of migrant's remittances" (With distinction).

PROFESSIONAL EXPERIENCE

- Postdoctoral researcher. **Tecnológico de Monterrey.** Since Oct 2026
- Data analyst consultant. **Norwegian Refugee Council.** Mar 2026 – Aug 2027
- Crime data specialist. **United Nations Office on Drugs and Crime.** Aug 2025 – Dec 2026
- Data visualization consultant. **Consortium Swiss Aid Goettingen.** Feb 2026 – Jul 2026
- Research analyst consultant. **Norwegian Refugee Council.** Nov 2025 – Dec 2025
- Research analyst consultant. **Norwegian Refugee Council.** Dec 2024 – Mar 2025
- Quantitative researcher (data scientist). **United Nations Institute for Disarmament Research.** May 2022 – Dec 2023
- Research assistant. **Georg-August-Universität Göttingen.** Oct 2016 – Dec 2022
- Data analyst. **International Organization for Migration.** Feb 2021 – May 2021
- Statistical consultant (geospatial data). **UN Women.** Nov 2018 – Jun 2019
- Project assistant (Statistician). **United Nations Office on Drugs and Crime.** Mar 2014 – Mar 2016
- Research assistant. **Tecnológico de Monterrey.** Aug 2011 – Jul 2013

PUBLICATIONS

Peer-reviewed journal articles

- Torres Munguía, J.;** Martínez-Zarzoso, I. (2026). Global trends of pandemic-prone and epidemic-prone disease outbreaks in 2024. *BMJ global health*, 11 (2). DOI: [10.1136/bmjgh-2025-020708](https://doi.org/10.1136/bmjgh-2025-020708).
- Martínez-Zarzoso, I.; Badarau, F.; Díaz Pavez, L.; **Torres Munguía, J.;** Wacker, K. (2025). Pandemics and Environmental Performance in a Globalized World. *Frontiers in Climate* (7). DOI: [10.3389/fclim.2025.1504804](https://doi.org/10.3389/fclim.2025.1504804).
- Tonnelier, M.; Delforge, D.; Below, R.; **Torres Munguía, J.;** Saegerman, C.; Wathélet, 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). DOI: [10.1186/s12889-024-21026-2](https://doi.org/10.1186/s12889-024-21026-2).
- Torres Munguía, J.;** Hesselman, M.; Martínez-Zarzoso, I.; Ruysen, I. (2025). Mapping energy poverty measures during the COVID-19 pandemic: a new global panel dataset. *Journal of Applied Economics*, 28 (1). DOI: [10.1080/15140326.2025.2483403](https://doi.org/10.1080/15140326.2025.2483403).
- 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). DOI: [10.3390/socsci13030159](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). DOI: [10.1332/23986808Y2024D000000031](https://doi.org/10.1332/23986808Y2024D000000031).
- 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*. DOI: [10.1007/s42001-024-00292-5](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). DOI: [10.1038/s41597-022-01797-2](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). DOI: [10.1177/08862605211072179](https://doi.org/10.1177/08862605211072179).

10. **Torres Munguía, J.**; Martínez-Zarzoso, I. (2021). Examining gender inequalities in factors associated with income poverty in Mexican rural households. *PloS one*, 16 (11). DOI: [10.1371/journal.pone.0259187](https://doi.org/10.1371/journal.pone.0259187).
11. **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). DOI: [10.46661/revmetodoscuanteconempresa.2196](https://doi.org/10.46661/revmetodoscuanteconempresa.2196).

Working papers

1. 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. *UNIDIR Findings Report*, 33. DOI: [10.37559/MEAC/23/11](https://doi.org/10.37559/MEAC/23/11).
2. 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. *UNIDIR Findings Report*, 28. DOI: [10.37559/MEAC/23/02](https://doi.org/10.37559/MEAC/23/02).
3. **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. *UNIDIR Findings Report*, 29. DOI: [10.37559/MEAC/23/03](https://doi.org/10.37559/MEAC/23/03).
4. 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. *UNIDIR Findings Report*, 31. DOI: [10.37559/MEAC/23/05](https://doi.org/10.37559/MEAC/23/05).
5. Parry, J.; Khoshnaw, Y.; O'Neil, S.; **Torres Munguía, J.**; Genat, M. (2022). The Road from Al Hol Camp: Reflections on the Iraqi Experience. *UNU Findings Report*, 24. Available at: <https://digitallibrary.un.org/record/4076413?v=pdf>.
6. 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. *UNU Findings Report*, 22. Available at: <https://unidir.org/publication/child-recruitment-in-the-lake-chad-basin-findings-report-22/>.
7. **Torres Munguía, J.**; Martínez-Zarzoso, I. (2020). What Determines Poverty in Mexico?: A Quantile Regression Approach. *Ibero-America Institute for Economic Research*, 246. Available at: <https://www.econstor.eu/handle/10419/217231>.
8. **Torres Munguía, J.**; Martínez-Zarzoso, I. (2018). What is behind homicide gender gaps in Mexico? A spatial semiparametric approach. *Ibero-America Institute for Economic Research*, 236. Available at: <https://www.econstor.eu/handle/10419/178674>.
9. Vilalta Perdomo, C.; Castillo, J.; **Torres Munguía, J.** (2016). Violent Crime in Latin American Cities. *Inter-American Development Bank Discussion Paper*, 474. DOI: [10.18235/0007973](https://doi.org/10.18235/0007973).

OTHER ACTIVITIES

Member of the Scientific and Technical Advisory Group. Centre for Research on the Epidemiology of Disasters (Since Mar 2024).

Journal reviewer. BMC Public Health, Journal of Applied Economics, Journal of Economic Policy Reform, Journal of Interpersonal Violence, Scientific Data, Wellcome Open Research.

Visiting researcher. University of Groningen (July – Aug 2022). Université de Bordeaux (Jun – Jul 2023).

Thesis advisor. Paulina Aldape. MSc Data Science, Universidad Autónoma de Nuevo León (May 2023 – Nov 2024). Clara Strasser. MSc in Statistics, Ludwig-Maximilians-Universität München (Mar 2023 – Feb 2024). Ludivine Riche. MSc Public Health, Université Catholique de Louvain (Jul 2024 – Oct 2024).

HONORS & AWARDS

Seal of Excellence, Horizon Europe Marie Skłodowska-Curie Actions

Finalist for the 2023 Falling Walls Science Breakthroughs (Science and Innovation Management)

ENLIGHT Open Science Award 2023

Last updated: October 2026