

# Owais Raza

Researcher

Omaha, NE - US

📞 he/him | 📞 (206) 349 4773 | ✉ ow.raza@hotmail.com | 🏠 oraza.github.io | 📞 0000-0002-3410-441X | 📧 weixRkAAAAJ&hl | 🌐 oraza | 🌐 owraza

## Summary

PhD-trained epidemiologist with 15+ years of experience in public health research, teaching, and mentorship. Specializes in **quantitative data analysis** and **data visualization** using R, STATA, and SPSS. Background in **spatial epidemiology**, **maternal and child health**, and **curriculum development**. With a strong commitment to **diversity**, **equity**, and **inclusion** through my research and community engagement, I promote **open science** and embrace a growth mindset, always seeking to learn and apply new methodologies. Beyond my academic achievements, I am a strong proponent of work-life balance and gender equality.

## Education

### Ph.D.

Tehran University of Medical Sciences

2018

Tehran, Iran

### MBBS

Ziauddin University

2006

Karachi, Pakistan

## Experience

### Research Mentor

BMJ Health, Canada

Jul 2024 – Present

Remote

- Conducting data analysis workshops (SPSS and STATA) for internship programs in collaboration with BMJ Health (Pakistan).
- Served on the Scientific Review Committee (SRC) and the Research Ethics Board (REB).

### Senior Researcher

BMJ Health, Pakistan

Jun 2024 – Present

Remote

- Directed the Research Internship Program (Dec 2024 Cohort)
- Mentored interns, developed training modules, assessed intern goals, and provided guidance on research project design and execution.

### Assistant Professor

School of Public Health, Dow University of Health Sciences

Feb 2020 – Jul 2024

Karachi, Pakistan

- Developed public health curricula and taught UG/PG courses in epidemiology, biostatistics, and research methods.
- Supervised student research and theses.

### Deputy Director (Research)

PPHI Sindh

Nov 2018 – Jan 2020

Karachi, Pakistan

- Led research initiatives across 22 districts, using DHIS data to support program monitoring and planning.
- Conducted healthcare facility assessment projects and led a warehouse assessment across all 22 districts.
- Oversaw key institutional studies, including A Report on Cesarean Section Audit and Warehouse Assessment of PPHI Sindh.
- Established the Institutional Review Board (IRB) to ensure ethical research practices across all projects.

### Teaching Assistant

Department of Epidemiology & Biostatistics, Tehran University of Medical Sciences

Apr 2014 – Sep 2017

Tehran, Iran

- Supervised two rounds of Community Assessment Program as a part of MPH program.
- Co-supervised MPH theses
- Facilitated research methodology and epidemiology courses, and conducted statistical software workshops (SPSS, STATA, R).

### Research Assistant

Non-Communicable Diseases Research Center, Tehran University of Medical Sciences

May 2013 – Dec 2014

Tehran, Iran

- Coordinated maternal and child health studies.
- Contributed to a national and sub-national burden of disease analysis on maternal conditions in Iran.

### Lecturer

Ziauddin University

Feb 2008 – Sep 2012

Karachi, Pakistan

- Taught epidemiology and biostatistics modules.
- Led PBL sessions, supervised student research, and conducted SPSS workshops for medical students.

## SKILLS

R, SPSS, STATA

*Statistical programming, data management, advanced analysis, and visualization.*

ArcGIS, GWR, Geospatial Analysis

*Spatial data processing, mapping, and geographic analysis.*

Scientific Writing, Data Visualization, Peer Review

*Drafting academic papers, reports, grant proposals, presenting data visually, and reviewing manuscripts for scientific journals.*

Project Management, Ethical Review & Compliance, Open Science Practices

*Leading research projects, ensuring ethical standards and IRB compliance, and promoting transparency and reproducibility in research.*

## INVITED TALK:

- May 2023 - 1st Family Medicine Research Day: **Fifty Shades of Medical Research** hosted by Department of Family medicine, Indus Hospital and Health Network.
- Jan 2023 - Quality of Human Resources in Health: **Public Health and Research & Development (R&D) Context** hosted by Ziauddin University.
- Aug 2022 - Moderated Talk for **Ex-Faculty Talk Series: Dr Amir Omair (Ex-faculty member of Department of Community Health Sciences, Ziauddin University)** hosted by Ziauddin University.
- Dec 2021 - Moderated session at **International Conference on SDGs: Moving Towards Population Health & Wellbeing**, organized by Dow University of Health Sciences.
- Dec 2021 - Scientific Session on **Research, Education and The Way Forward: The Good, The Bad & The Ugly of Medical Research** hosted by Ziauddin University.
- May 2020 - **COVID Session # 7: Public Health, Epidemiology & Clinical Research** hosted online by Ziauddin Alumni Association.

## Peer Review Activities:

- Journal of Health, Population and Nutrition
- International Journal for Equity in Health
- Journal of Current Ophthalmology
- BMC Health Services Research
- PLOS Global Public Health
- Archives of Public Health
- Discover Mental Health
- Discover Public Health
- BMC Public Health
- Scientific Reports
- BMJ Open
- Midwifery
- Heliyon

## Publications

1. Khan, R. A., Raza, O., Ahmed, M., & Zaheer, S. (2025). Socioeconomic disparities in accessing early newborn care in Pakistan: Secondary data analysis of nationally representative sample. *Turkish Archives of Pediatrics*, 60(2), 208.
2. Lodhi, F. S., Rabbani, U., Khan, A. A., Raza, O., Holakouie-Naieni, K., Yaseri, M., Farooq, U., & Montazeri, A. (2021). Factors associated with quality of life among joint and nuclear families: A population-based study. *BMC Public Health*, 21(1), 234.

3. Balikuddembe, J. K., Ardalan, A., Stephen, K. M., Raza, O., & Khorasani-Zavareh, D. (2021). Risk factors associated with road traffic injuries at the prone-areas in kampala city: A retrospective cross-sectional study. *Journal of Injury and Violence Research*, 13(1), 13.
4. Raza, O., Mansournia, M. A., Foroushani, A. R., & Holakouie-Naieni, K. (2020). Exploring spatial dependencies in the prevalence of childhood diarrhea in mozambique using global and local measures of spatial autocorrelation. *Medical Journal of the Islamic Republic of Iran*, 34, 59.
5. Raza, O., Mansournia, M. A., Foroushani, A. R., & Holakouie-Naieni, K. (2019). Geographically weighted regression analysis: A statistical method to account for spatial heterogeneity. *Archives of Iranian Medicine*, 22(3), 155–160.
6. Lodhi, F. S., Khan, A. A., Raza, O., Zaman, T. U., Farooq, U., & Holakouie-Naieni, K. (2019). Level of satisfaction and its predictors among joint and nuclear family systems in district abbottabad, pakistan. *Medical Journal of the Islamic Republic of Iran*, 33, 59.
7. Memon, J., Holakouie-Naieni, K., Majdzadeh, R., Yekaninejad, M. S., Garmaroudi, G., Raza, O., & Nematollahi, S. (2019). Knowledge, attitude, and practice among mothers about newborn care in sindh, pakistan. *BMC Pregnancy and Childbirth*, 19(1), 329.
8. Abdullahi, K. O., Holakouie-Naieni, K., Foroushani, A. R., Ahmadnezhad, E., Raza, O., & Nematollahi, S. (2018). Knowledge, attitude, and practice regarding ebola virus disease and related factors among international students of tehran university of medical sciences, 2015. *Iranian Journal of Public Health*, 47(5), 775.
9. Raza, O., Lodhi, F. S., Morasae, E. K., & Majdzadeh, R. (2018). Differential achievements in childhood immunization across geographical regions of pakistan: Analysis of wealth-related inequality. *International Journal for Equity in Health*, 17(1), 122.
10. Holakouie-Naieni, K., Owais, R., Nematollahi, S., Mensah, L. E., Memon, J., & Mhajabin, S. (2018). Knowledge, attitude, practice of dengue fever and its related factors among international students at tehran university of medical sciences. *Iranian Journal of Public Health*, 47(11), 1777.
11. Kh. Shafiu Rahman, K. H. N., Reza Majdzadeh, & Raza, O. (2017). Knowledge, attitude and practices (KAP) regarding chronic complications of diabetes among patients with type 2 diabetes. *Int J Endocrinol Metab*.
12. Rahman, K., Majdzadeh, R., Naieni, K., & Raza, O. (2017). Comorbidities and care practices of diabetic patients. *Austin Journal of Public Health and Epidemiology*, 4(2), 1059.
13. Balikuddembe, J. K., Ardalan, A., Khorasani-Zavareh, D., Nejati, A., & Raza, O. (2017). Weaknesses and capacities affecting the prehospital emergency care for victims of road traffic incidents in the greater kampala metropolitan area: A cross-sectional study. *BMC Emergency Medicine*, 17(1), 29.
14. Lodhi, F. S., Raza, O., Montazeri, A., Nedjat, S., Yaseri, M., & Holakouie-Naieni, K. (2017). Psychometric properties of the urdu version of the world health organization's quality of life questionnaire (WHOQOL-BREF). *Medical Journal of the Islamic Republic of Iran*, 31, 129.
15. Khazaei, S., Rezaeian, S., Baigi, V., Saatchi, M., Molaeipoor, L., Khazaei, Z., Khazaei, S., & Raza, O. (2017). Incidence and pattern of tuberculosis treatment success rates in different levels of the human development index: A global perspective. *Southern African Journal of Infectious Diseases*, 32(3), 100–104.
16. Safiri, S., Haghdoost, A. A., Hashemi, F., Amiri, S., Raza, O., & Sadeghi-Bazargani, H. (2016). Association between adult attention deficit hyperactivity disorder and helmet use among motorcycle riders. *Trauma Monthly*, 21(2), e21066.
17. Holakouie-Naieni, K., Ahmadvand, A., Assan, A., Elduma, A. H., Jammeh, A., Kamali, A. S. M. A., Kareem, A. A., Muhammad, F. M., Sabahat, H., & Abdullahi, K. O. (2015). Assessing the knowledge, attitudes, and practices of students regarding ebola virus disease outbreak. *Iranian Journal of Public Health*, 44(12), 1670.
18. Shayesteh Hajizadeh MSc MPH PhD Candidate, Marzieh Vahid Dastjerdi MD, Maziar Moradi-Lakeh, Alireza Khajavi, Farahnaz Farzadfar, Elham Zandian, Owais Raza, Farshad Farzadfar. (2014). The trend of national and subnational burden of maternal conditions in iran from 1990 to 2013: The study protocol. *Archives of Iranian Medicine*, 17(3), 198–203.
19. Shoaib, B., Ali, M., Danish, S. H., & Raza, O. (2012). Human immunodeficiency virus, hepatitis B and C: Barbers knowledge and their practices. *Infectious Diseases Journal of Pakistan*, 40(17), 628.