

SUMMARY

Proficient in utilizing R and STATA to facilitate data analysis and visualization. Seeking to leverage expertise in spatial data analysis, healthcare facility assessments, and community outreach to drive evidence-based changes in public health.

EXPERIENCE

BMY Health (Canada) — Research Mentor

July 2024 - PRESENT

- Conducting data analysis workshops (using SPSS & STATA) for multiple rounds of internship program in collaboration with BMY Health (Pakistan).

BMY Health (Pakistan) — Senior Researcher

June 2024 - PRESENT

- Assessing the goals of interns in the start of the internship and providing advice and encouragement for supporting their research goals.
- Offering constructive intellectual input to assist interns in the ideation and execution of their research projects.

School of Public Health, Dow University of Health Sciences, Karachi (PK) — Assistant Professor

Feb 2020 - July 2024

- Developed and implemented creative curricula for public health courses.
- Taught undergraduate and postgraduate students in epidemiology, biostatistics, and research methodology.
- Mentored students and enhanced research quality by supervising and evaluating theses.

Research and Training Wing, PPHI Sindh, Karachi (PK) — Deputy Director (Research)

Nov 2018 - Jan 2020

- Implemented various research projects in 22 districts of Sindh.
- Analyzed PPHI Sindh's database from DHIS for insightful analysis.
- Established PPHI Sindh's IRB committee, ensuring ethical research practices.

Department of Epidemiology and Biostatistics, School of Public Health, Tehran University of Medical Sciences, Tehran (IR) — Teaching Assistant

Apr 2014 - SEP 2017

- Supervised Community Assessment program for MPH students.

- Facilitated MPH students in Research Methodology & Epidemiology courses.
- Conducted SPSS, STATA & R workshops for PhD candidates.

Non-Communicable Diseases Research Center, Tehran University of Medical Sciences, Tehran (IR) — Research Assistant

May 2013 – Dec 2014

- Worked with PIs to coordinate quantitative research on maternal & child health issues.
- Participated in developing and published study protocol for national & sub-national burden of maternal conditions in Iran.

Department of Community Health Sciences, Ziauddin University, Karachi (PK) — Lecturer

Feb 2008 – SEP 2012

- Facilitated courses on Biostatistics and Epidemiology to medical students.
- Conducted Problem – Based learning (PBL), small group sessions and lectures.
- Supervised research projects of third- and fourth-year medical students.
- Conducted SPSS Workshop for medical students.

EDUCATION

Tehran University of Medical Sciences, Tehran (IR) – *Ph.D. Epidemiology*

Oct 2012 – Sep 2018

Thesis Title: Application of Geographically Weighted Analysis to Determine Association Between Socio-economics Status and Childhood Morbidity in East Africa.

Overall GPA: 18.68/20

Awards: Diamond Merit-Based tuition waiver scholarship.

Ziauddin University, Karachi (PK) – *MBBS*

Nov 2000 – Apr 2006

SKILLS

- R/RStudio, SPSS, STATA, DAGitty, ArcGIS, QGIS & EndNote.
- Skilled in scientific writing, data analysis, and visualization.
- Experienced in teaching, curriculum development, and student mentorship.
- Adept at conducting community assessments and spatial epidemiological analyses.

PUBLICATIONS

- Lodhi FS, Rabbani U, Khan AA, **Raza O**, Holakouie-Naieni K, Yaseri M, Farooq U, Montazeri A. Factors associated with quality of life among joint and nuclear families: a population-based study. BMC Public Health. 2021 Dec;21(1):1-2.
- Balikuddembe JK, Ardalan A, Stephen KM, **Raza O**, Khorasani-Zavareh D. 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. 2021 Jan;13(1):13.
- **Raza O**, Mansournia MA, Foroushani AR, Holakouie-Naieni K. 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. 2020;34:59.
- **Raza O**, Mansournia MA, Foroushani AR, Holakouie-Naieni K. Geographically Weighted Regression Analysis: A Statistical Method to Account for Spatial Heterogeneity. Archives of Iranian Medicine (AIM). 2019;22(3).
- Memon J, Holakouie-Naieni K, Majdzadeh R, Yekaninejad MS, Garmaroudi G, **Raza O**, et al. Knowledge, attitude, and practice among mothers about newborn care in Sindh, Pakistan. BMC pregnancy and childbirth. 2019;19(1):329.
- Lodhi FS, Khan AA, **Raza O**, Zaman TU, Farooq U, Holakouie-Naieni K. Level of satisfaction and its predictors among joint and nuclear family systems in District Abbottabad, Pakistan. Medical journal of the Islamic Republic of Iran. 2019;33:59.
- **Raza O**, Lodhi FS, Morasae EK, Majdzadeh R. Differential achievements in childhood immunization across geographical regions of Pakistan: analysis of wealth-related inequality. International journal for equity in health. 2018;17(1):122.
- Holakouie-Naieni K, **Owais R**, Nematollahi S, Mensah LE, Memon J, Mahjabin S. Knowledge, Attitude, Practice of Dengue Fever and Its

- Related Factors among International Students at Tehran University of Medical Sciences. Iranian journal of public health. 2018;47(11):1777-9.
- Abdullahi KO, Holakouie-Naieni K, FOROUSHANI AR, Ahmadnezhad E, **Raza O**, Nematollahi S. 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. 2018;47(5):775.
 - Rahaman K, Majdzadeh R, Naieni K, **Raza O**. Comorbidities and care practices of diabetic patients. Austin J Public Health Epidemiol. 2017;4(2):1059.
 - Lodhi FS, **Raza O**, Montazeri A, Nedjat S, Yaseri M, Holakouie-Naieni K. 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. 2017;31:129.
 - Khazaei S, Rezaeian S, Baigi V, Saatchi M, Molaeipoor L, Khazaei Z, et al. 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. 2017;32(3):100-4.
 - Kh. Shafiur Rahaman RM, Kourosh Holakouie Naieni, **Raza O**. Knowledge, Attitude and Practices (KAP) Regarding Chronic Complications of Diabetes among Patients with Type 2 Diabetes. Int J Endocrinol Metab. 2017.
 - Balikuddembe JK, Ardalan A, Khorasani-Zavareh D, Nejati A, **Raza O**. 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. 2017;17(1):29.
 - Safiri S, Haghdooost AA, Hashemi F, Amiri S, **Raza O**, Sadeghi-Bazargani H. Association between adult attention deficit hyperactivity disorder and helmet use among motorcycle riders. Trauma monthly. 2016;21(2).
 - Holakouie-Naieni K, Ahmadvand A, **Owais R**, Assan A, Elduma AH, Jammeh A, et al. Assessing the knowledge, attitudes, and practices of students regarding ebola virus disease outbreak. Iranian journal of public health. 2015;44(12):1670.
 - Shayesteh Hajizadeh, Maziar Moradi-Lakeh, Alireza Khajavi, Farahnaz Farzadfar, Elham Zandian, **Owais Raza**, Farshad Farzadfar. The Trend of National and Subnational Burden of Maternal Conditions in Iran from

1990 to 2013: The Study Protocol. Archives of Iranian Medicine. 2014;17(3):198-203.

- Shoaib B, Ali M, Danish SH, **Raza O**. Human Immunodeficiency Virus, Hepatitis B and C: Barbers knowledge and their Practices. Infectious Diseases Journal of Pakistan. 2012;40(17):628

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 & 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.

VERIFIED PEER-REVIEWS: (<https://www.webofscience.com/wos/author/record/G0E-6031-2022>)

- PLOS Global Public Health
- International Journal for Equity in Health
- BMC Public Health
- BMJ Open
- Heliyon
- Journal of Current Ophthalmology
- Midwifery