SALONI PATIL, MPH

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PROFESSIONAL SUMMARY

Epidemiologist and biostatistician with an MPH from Boston University and a clinical foundation in dental surgery (BDS). First author of a manuscript in preparation examining TB household transmission risk across 19,668 contacts in Pakistan using mixed-effects logistic regression. Experienced in SAS, R, and Python across RCTs, cohort studies, systematic reviews, and mixed-methods research. Open to roles in epidemiology, biostatistics, clinical research, public health analytics, and global health.

ABSTRACTS & MANUSCRIPTS

Patil S, Hussain H, Malik AA, Brooks MB. "Who Develops Tuberculosis? Evidence from a Large Real-World Household Contact Investigation in Pakistan." *The Union World Conference on Lung Health 2026*, Rio de Janeiro. Nov 2026. (Submitted; under review)

STATISTICAL AND TECHNICAL SKILLS

Statistical methods: Mixed-effects logistic regression, multivariable modeling, modified Poisson regression, ITT analysis, effect modification and interaction testing, survival analysis, sensitivity analysis

Programming: SAS Studio (PROC GLIMMIX, PROC LOGISTIC, PROC GENMOD), R (dplyr, ggplot2, tidyverse), Python

Research tools: REDCap, Power BI, NVivo, KoboToolbox, Excel (PivotTables, dashboards)

Certifications: CITI Human Subjects Research (Biomedical), HIPAA Training, Race in Clinical Research, Boston University (2025)

PROFESSIONAL EXPERIENCE

Biostatistician | TB Household Contact Screening Study | *Boston University School of Public Health* Nov 2025 – Present

- Led end-to-end analysis of 4,430 index TB patients and 19,668 household contacts (Karachi and Peshawar, 2018–2021) using SAS PROC GLIMMIX with household-level random intercepts; constructed a fully reproducible pipeline covering data cleaning, variable derivation, backward elimination, and sensitivity analyses on bacteriologically confirmed cases.
- Determined that contact vulnerability solely drives TB risk: young age (aOR 2.16), prior TB history (aOR 5.75), weight loss (aOR 3.74), and comorbidity (aOR 2.88), with no index patient characteristics retaining significance; authored all manuscript sections, 4 results tables, and a first-author abstract submitted to The Union 2026, Rio de Janeiro (under review).

Medical Officer | *Health Assure PVT. LTD, Mumbai, India* Feb 2024 – May 2024

- Conducted 500+ structured telehealth patient interviews, collecting detailed medical histories and translating patient-reported data into structured EMR and Excel records maintained to IRB-equivalent data security standards.
- Coordinated across clinical and non-clinical teams to ensure source-record integrity across a multi-provider platform, directly applicable to clinical trial data management workflows.

Dental Intern | *Nair Hospital Dental College and Hospital, Mumbai, India* Dec 2022 – Dec 2023

- Managed 700+ cases across multidisciplinary clinical rotations; partnered with community health workers to deliver preventive care and screenings to underserved rural populations in Maharashtra.

RESEARCH EXPERIENCE

Biostatistician | Acupuncture RCT Secondary Analysis |*Boston University School of Public Health* Jan 2026 – May 2026

- Applied ITT analysis and sex-stratified logistic regression to a multi-site pragmatic RCT, identifying sex-stratified ORs of 2.40 (female) and 4.01 (male) for clinically meaningful headache improvement, with non-significant interaction (Wald p=0.471).
- Executed full analytic pipeline in SAS (PROC GLIMMIX, PROC LOGISTIC, delta method ESTIMATE statements), independently verified all outputs in Python, and produced manuscript-ready statistical tables and Results section.

Research Analyst | Seasonal Wellbeing and Mental Health Study | *Boston University School of Public Health* Sept 2025 – Dec 2025

- Designed and analyzed a mixed-methods study on seasonal affective symptoms among graduate students using PHQ-2 screening, R-based analysis, and NVivo thematic coding; presented findings to an academic audience.

Statistical Analyst | Periodontal Disease and Gastric Cancer Risk | *Boston University School of Public Health* Jan 2025 – May 2025

- Conducted a systematic literature review of 7 peer-reviewed studies following PRISMA guidelines, evaluating the epidemiological association between periodontal disease and gastric cancer risk; produced a structured academic manuscript.

EDUCATION

Master of Public Health, Epidemiology and Biostatistics, *Boston University School of Public Health, Boston, MA* May 2026

Bachelor of Dental Surgery (BDS), *S.M.B.T. Dental College and Hospital, MUHS, Maharashtra, India* Dec 2023