Mohammad Sayeef Alam

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Key Qualifications

- PhD in Genetic Epidemiology, dual master's in Biostatistics, and bachelor's in Statistics.
- Six years of experience in data analysis in various statistical methods and datasets related to health.
- Knowledge of methods related to epidemiology, biostatistics, clinical trials, and genetics with hands-on experience of its implementation in both R and Excel.
- Technically minded with the ability to break down a complex solution to ensure understanding at multiple levels and heterogeneous audience.
- Collaborative and supportive team player, conscious of my role as a contributor to a good working environment.
- Ability to take on new challenges in a fast-paced environment and make decisions under pressure.
- Good communication skills in English.

Professional Experience

Associate, Parexel – Remote, India July 2021 – February 2022

- Supported the development of interactive platforms (e.g., RShiny) to conduct economic evaluations (e.g., cost-effectiveness, budget impact) under senior guidance.
- Performed statistical analyzes (e.g., Bayesian network meta-analysis, MAIC, STC) aligned with health technology assessment (HTA) guidelines (e.g., TSD, NICE) across multiple disease areas.
- Automated dashboards (Excel/VBA) to visualize key clinical endpoints (e.g. survival curves, demographics) for regional stakeholder reporting.
- Supported client engagements by helping to coordinate projects, manage their expectations, and ensured the timely delivery of analytical output.
- Contributed to statistical analysis plans (SAPs) by programming scripts, conducting feasibility assessments, and validating data sets for accuracy.
- Assisted in presenting analytical results to internal and external stakeholders, incorporating feedback to refine deliverables.

Research Experience

PhD, NTNU – Trondheim, Norway April 2022 – Current

- Applied advanced statistical methods to analyze high-dimensional genetic and real-world registry data, generating actionable insights for large-scale studies.
- Designed and optimized analysis pipelines, reducing computational time and resource usage, and increasing team productivity.
- Presented research findings at national and international conferences and published results in peer-reviewed journals, contributing to scientific knowledge and visibility.
- Fostered and expanded collaborations with external university research groups, driving successful joint projects.
- Built a supportive academic network during an international research stay, facilitating new research opportunities.
- Secured more than 150,000 NOK in competitive external funding from three agencies, supporting innovative research initiatives.

Project

Nordic Shortfall Calculator Link provided on request

- Developed a proof-of-concept model that calculates the absolute and proportional shortfall of 4 Nordic countries, i.e., Denmark, Finland, Norway, and Sweden
- Provides up-to-date estimates of quality-adjusted life expectency of respective Nordic population based on the EQ-5D or 3D values.
- Features comparative options between different value sets for each country, discount rates, updates automatically with dynamic input, provides HRQoL, Cummulative Survival and Cummulative QALYs.

Skills and Interests

Software: R, SAS, Python, Git, Microsoft Excel, Powerpoint, and Word.

Transferable: Communicator, Detail-oriented, Problem solver, Relationship builder, Results-driven, Strategic

Hobbies: Hiking, swimming and cooking for others

Education

MPhil in Biostatistics and Demography June 2020 – May 2021
International Institute for Population Sciences

MSc in Biostatistics and Demography July 2018 – June 2020
International Institute for Population Sciences

BSc in Statistics April 2014 – May 2018
University of Calcutta

Publications (3 out of 4)

Alam MS, Thomas L, Brumpton B, Hveem K, Lundin KE, Withoff S, Jonkers IH, Sollid LM, Hjort R, Ness-Jensen E. *Population screening of adults identifies novel genetic variants associated with celiac disease.* Scientific Reports. 2025 Jun 5;15(1):19764.

Singh M, **Alam MS**, Majumdar P, Tiwary B, Narzari H, Mahendradhata Y. *Understanding the spatial predictors of malnutrition among 0–2 years children in India using path analysis.* Frontiers in Public Health. 2021 Jul 30;9:667502.

Sen K, Sinha A, Sen S, Chakraborty S, **Alam MS**. *Thyroid function test in COVID-19 patients: a cross-sectional study in a tertiary care hospital.* Indian Journal of Endocrinology and Metabolism. 2020 Nov 1;24(6):532-6.

Conferences (3 out of 4)

A genome wide association study reveals novel locus at 5p15.33 to be associated with celiac disease: results from population-based screening of adults, HUNT4. **20th International Celiac Disease Symposium – Sheffield, UK (oral)**. September 2024

Assessing the susceptibility of celiac disease by polygenic risk scores: analysis of a population-based cohort, the HUNT study. **Nordic Conference on Future Health – Trondheim, Norway (oral)**. September 2024

Prevalence of communicable disease and its epidemiological correlates in major urban states in India: Evidence from a nationally representative sample. **16th International Conference on Urban Health – Xiamen, China (oral)**. November 2020

References

References can be provided on request.