Mohammad Sayeef Alam

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Key Qualifications

- PhD in Genetic Epidemiology, dual Master's degrees in Biostatistics, and a Bachelor's in Statistics, with over six years of experience in health-related data analysis.
- Proficient in epidemiological and health economic research methods, including survival analysis, longitudinal modeling, and utility analyses, with practical expertise in R and Excel.
- Skilled at translating complex statistical concepts into digestible topics for diverse audiences, including internal teams and external stakeholders.
- Highly adaptable in fast-paced environments, capable of managing multiple roles, meeting tight deadlines, and making informed decisions under pressure.
- Collaborative team player who fosters a supportive and productive work atmosphere through effective communication and cooperation.
- Strong written and verbal communication skills in English, with experience in technical documentation and client-facing reporting.

Professional Experience

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

- Supported the end-to-end development of a dynamic and interactive R Shiny application for conducting economic evaluations, visualizing results, and generating downloadable reports.
- Performed a variety of statistical analyzes to support evidence synthesis, utility estimation, and uncertainty assessments.
- Designed and implemented dynamic dashboards to visualize key clinical endpoints, including survival outcomes, therapy lines, and demographic summaries, customized for regional stakeholder reporting.
- Contributed to the development of statistical analysis plans by scripting analyzes, conducting feasibility assessments, and validating data sets for accuracy and completeness.
- Delivered clear and actionable insights to internal and external stakeholders, incorporating feedback to improve deliverables.

Research Experience

PhD, NTNU – Trondheim, Norway   April 2022 – Current

- Conducted genome-wide association studies to identify novel genetic associations with celiac disease, analyzing 24 million variants using established statistical pipelines.
- Developed a polygenic risk score (PRS) model that helped reclassify 7–11% of the population into different risk groups, enabling personalized approach to medicine.
- Integrated real-world data from patient registries, health surveys, and clinical databases to build predictive models by combining genetic and non-genetic information.
- Presented research findings at national and international conferences and published corresponding manuscript in peer-reviewed journals.
- Secured more than 150,000 NOK in competitive external funding for a research stay abroad, supporting collaboration between university research groups.

Researcher, NTNU – Trondheim, Norway   April 2025 – Current

- Developed a proof-of-concept R Shiny app to calculate absolute and proportional shortfall for Nordic countries, using dynamic inputs and comparative options for discount rates and EQ-5D value sets to provide up-to-date estimates of quality-adjusted life expectancy and health outcomes.
- Perform regression analysis to infer the relationship with mental health patients' referral rejections with patient and GP characteristics using real-world data from patient and hospital registry data.
- Build an R package to migrate existing decision analytics models for obesity from Excel to R, creating a lightweight, updatable tool that promotes open-access science.

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

Skills and Interests

Software:	R, Stata, Python, SAS, Git, Bash, Excel (VBA)
Methods:	Parametric survival analysis, Longitudinal analysis,
	Evidence synthesis (network meta-analysis),
	Indirect treatment comparison (MAIC, PAIC, STC, ML-NMR),
	Utility analysis (cost-effectiveness, cost-utility, budget-impact)
Soft Skills:	Client-focused, Empathetic collaborator, Clear communicator, Flexible when required, Logical decision-maker
Hobbies:	Hiking, Downhill skiing, Volunteering, Cooking, Learning Norwegian

Certifications

Economic Evaluation Modelling in R   14, 16 and 21 July 2025
Bristol Medical School

Advanced Multiple Imputation Methods to Deal with Missing Data   5-6 December 2024
Bristol Medical School

References

References can be provided on request.