Dear Hiring Manager,

Upon learning of your need for a Statistical Evaluation Specialist, I would like to express my sincere interest in this position at the Massachusetts Department of Public Health. I have strong background in statistical methods, epidemiology and public health. As a skilled and successful professional with experience in data analysis and interdisciplinary background, I possess the knowledge and skills that would allow me to take on the responsibilities to perform a broad and complex range of investigative and analytical epidemiologic activities related to the surveillance, detection, and prevention of diseases, as well as strategic planning and evaluation.

I have spent more than 4 years in the field of epidemiology research and also strengthen my statistical analytic skills. I am desired to contribute my skills and knowledge to the commonwealth to identify critical public health problems, and develop/conduct better methods of collecting, analyzing, and disseminating data to help improve health economics, provide unique health needs of public health importance, and impact the wellbeing of the populace.

My skill set lies in successfully managing, manipulating and performing statistical analysis with given datasets using computational tools such as SAS, R, and SQL. In addition, my training in epidemiology during my 2-year master’s studies have provided me concrete knowledge of epidemiologic principles and methods.

The following achievements emphasize my qualifications for this position:

* Master thesis: The Association of Gut Microbiome Composition and Parkinson’s Disease in Patient Cohort of Central California
* Served as the lead data analyst and study coordinator for the study of “Gut Microbiome & Parkinson’s Disease.”
* Self-taught and performed bioinformatic analysis and visualizations of taxonomic assignments and microbial community composition with software QIIME 2.0, R and SAS.
* Assisted in database development and maintained study database management with MS Access.
* Developed protocol for subject’s fecal sample collection and processing
* Current position as a Data Analyst at Mass General Hospital
* Serve as an educational resource for the whole group regarding statistical methods and software R.
* Perform statistical analysis and provide data visualizations (linear mixed models, latent class mixed models, growth mixture models, cluster analysis, factor/principle component analysis) in longitudinal studies using R.
* Prepare manuscript for data analyses results and findings for publishing.
* Create SQL queries to retrieve/merge data from the database.
* Created R functions to optimize data cleaning process for the whole group.

My great desire to provide proficient skills in statistical analysis as well as knowledge in epidemiologic principles and methods will help me to effectively contribute to the quantitative data analysis infectious diseases control and prevention in Massachusetts and make an impact at the Department of Public Health. This position can will also provide me with the platform in to fulfilling my long-term goal of becoming a statistician focusing on population and epidemiological research. Thank you for your time and consideration, and I look forward to hearing from you soon.

Sincerely,



Hsiang-Chin (Lori) Chou, MS

Data Analyst I

Athinoula A. Martinos Center for Biomedical Imaging

Harvard Aging Brain Study

Massachusetts General Hospital/Harvard Medical School