

THE DEPARTMENT OF MATHEMATICAL SCIENCES PROUDLY PRESENTS

COLLOQUIUM

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Applications of Statistics to Public Health

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ABSTRACT

In nutritional epidemiology a typical question is, what percentage of the U.S. population have usual sodium intake below the recommended limit? One of the main problems in answering this question is that usual sodium intake is not accurately measured. In the first part of the talk I will go through the use of quantile regression and measurement error models to estimate conditional quantile curves of usual sodium intake in the U.S. population. In the second part of the talk, I will discuss the use of statistics and collaborative work to study the epidemiology of drinking, drugging and driving in the U.S. In this example I will show how the use of some statistical methods for survey data can help policymakers in their decision-making. For instance, how statistical tools have been crucial in establishing the per se laws about blood alcohol concentration (BAC) across U.S. (e.g., legal BAC limit=0.08%).

Monzón Building, Room 201, 10:30 AM
Refreshments will be served
15 minutes before the colloquium, M-213

