



*El Departamento de Estadística del ITAM*

anuncia la siguiente sesión de

***EL SEMINARIO ALEATORIO***

que con el título

*Estimation of Fish Disease Prevalence from Imperfect  
Diagnostic Tests*

Impartirá

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University of Idaho**

**RESUMEN**

A Bayesian model is introduced for estimation of disease prevalence with imperfect diagnostic tests. A latent variable approach leads to an easy-to-implement Gibbs sampling scheme for sampling from the joint posterior distribution of prevalence and the sensitivity and specificity of the tests. These models have been widely adopted for use with human medical data, and we apply them here for prevalence estimation for diseases in fish from the northwest United States. In this setting where less information is available about sensitivity and specificity of tests, some interesting differences occur in the behavior of the Gibbs sampler and in the conclusions that result from the analyses.

***Fecha: Viernes 15 de Octubre***

***Hora: 12:50 hrs.***

***Salón: Sala de Videos II - 2º. Piso Biblioteca***

**Lista de seminarios próximos. Visite:**

[http://estadistica.itam.mx/seminarios\\_prox.html](http://estadistica.itam.mx/seminarios_prox.html)

El Seminario Aleatorio está destinado tanto a profesores como a estudiantes, por lo que el Departamento de Estadística agradece a los profesores que colaboren invitando a sus alumnos a estas sesiones.

María F. Rojano Agraz

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