

## Actividades Formativas IMEIO/ Educational Activities IMEIO

<b>Título/Title:</b> Inferencia Bayesiana
<b>Organizador/Organizer:</b> Miguel Angel Gómez Villegas <a href="mailto:villegas@ucm.es">villegas@ucm.es</a>
<b>Profesores/Lecturers:</b> Miguel A. Gómez Villegas, José Miguel Bernardo y Gabriel Castilla
<b>Horas totales/Number of hours:</b> 20
<b>Lugar/Location:</b> Facultad de CC. Matemáticas, Aula B08
<b>Fechas/Dates:</b> 5/10/2021 a 9/11/2021

### Resumen/Summary:

- 1. early beginnings
- 2. problems with the frequentist approximation. Birnbaum theorem
- 3. Bayesian analysis of the normal distribution
- 4. two samples problem
- 5. recent developments in reference analysis
- 6. Bayesian statistics and simulation
- 7. MCMC methods
- 8. linear model

**¿Aceptarías que el curso se pudiera emitir por videoconferencia restringido a algunos alumnos del doctorado que no pudieran asistir presencialmente?**  
**Would you accept that the course could be given by videoconference restricted to some doctoral students who could not attend in person? Yes**

### Evaluación

- (40%) examen teórico-práctico
- (40%) comentario de un artículo
- (20%) intervenciones en clase

