

MASTER UNIVERSITARIO EN: Metodología de las Ciencias del comportamiento

(Marcar la opción que proceda)

- SEMINARIO DE INVESTIGACIÓN** con financiación obtenida en la Convocatoria de Ayudas UAM de Movilidad para estos seminarios.
- SEMINARIO DE INVESTIGACIÓN** con financiación asignada al Máster Oficial en la partida presupuestaria del ejercicio en curso.
- OTROS SEMINARIOS**

NOTA: Este Anexo ha de remitirse a posgrado.oficial@uam.es

La no cumplimentación exhaustiva de alguno estos datos supondrá la devolución al remitente.

ANEXO B: Información para la difusión del seminario¹

Título: Working with Factor Analysis, Item Response, & Cognitive Diagnosis Models
Ponente: Jimmy de la Torre
Fecha/Hora: 18 de Diciembre de 2019, 10:00 – 13:00 h.
Lugar: Seminario A12. Facultad de Psicología

Contenido del seminario**Ámbito:**

Programa de Doctorado en: Psicología Clínica y de la Salud

Línea/Tema de investigación: Modelos y Aplicaciones en Estadística y Psicometría

Breve resumen (max. 150 palabras):

This session will cover a number of more advanced implementations of the EM and MCMC algorithms. Two methods of estimating factor analysis models, as in, maximum likelihood and weighted least squares, which correspond to limited- and full-information approaches, will be discussed. To showcase the versatility and flexibility of MCMC in estimating complex latent variable models, an algorithm for multi-unidimensional ability estimation with ancillary variables will be discussed. To ensure that parameters of complex models can be estimated properly, additional care is needed in the data generation process. For this example, generating ability vector and covariates that follow a particular structure will be discussed. Time permitting, an algorithm for simultaneous calibration of multiple tests, which will include proper sampling of the correlation matrix, will be discussed. An alternative approach to simultaneous calibration based on a model that posits a higher-order ability will also be explored.

Ponente: Breve resumen del CV (max. 200 palabras): Jimmy de la Torre is a Professor in the Faculty of Education at The University of Hong Kong. He is also currently a Chair Professor at the National Taichung University of Education in Taiwan, and an Honorary Professor at the Universidad Autónoma de Madrid in Spain. His primary research interests are in the field of psychological and educational testing and measurement, and the use of diagnostic assessment to support classroom teaching and learning. As one of the leading researchers in the field of cognitive diagnosis modeling, his work has covered both theoretical and implementation issues in this area. In 2009, he was named by the White House as one of the recipients of the Presidential Early Career Awards for Scientists and Engineers. He also received the Jason Millman Promising Measurement Scholar Award in 2009 from the National Council on Measurement in Education. He is the editor-in-chief of the *Journal of Educational Measurement*, an associate editor of *Applied Psychological Measurement*, and a member of the *Psychometric Society* Board of Trustees.

¹ La información sobre el seminario no debe superar una página