



Jimmy de la Torre, catedrático en la Facultad de Educación de la Universidad de Hong Kong y Miguel A. Sorrel, PDIF de la Facultad de Psicología de la UAM, impartirán el taller:

**"Cognitive diagnosis modeling: A general framework approach and its implementation in R",**

los días 7 y 8 de Junio (miércoles y jueves) en horario de 10:00 a 14:00 horas en el *Seminario V13 de la Facultad de Psicología de la UAM*

Para asistir al curso es necesario inscribirse en: <https://goo.gl/forms/hm0Qh6x09aaYafBM2>

### Resumen del taller:

The short course has a three-fold objective, namely, (1) to provide an overview of cognitive diagnosis models (CDMs) and some recent developments therein, (2) to give participants a hands-on experience conducting various CDM analyses using PR assessment-based data, and (3) to introduce participants to the *GDINA* as a tool for carrying out comprehensive CDM analyses. Participants will be introduced to a proportional reasoning (PR) assessment that was developed from scratch using a CDM paradigm. Participants will get the several opportunities to work with PR assessment-based data. Moreover, they learn how to use *GDINA*, an R package developed by Ma and de la Torre (2017) for a series of CDM analyses, which include model calibration, evaluation of model appropriateness at item and test levels, Q-matrices validation, and detection of differential item functioning. To ensure that participants understand the proper use of CDMs, the theoretical bases for these analyses will be briefly discussed. The intended audience of the short course includes anyone interested in CDMs who has some familiarity with item response theory or classical test theory. No previous knowledge of CDM or R is required. By the end of the session, participants are expected to have a basic understanding of the theoretical underpinnings of CDM, as well as the capability to conduct various CDM analyses using the *GDINA* package.

### Biografía breve de los ponentes

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.

Miguel A. Sorrel is recipient of a FPI predoctoral fellowship at Universidad Autónoma de Madrid. His research interests include IRT, CDM, computerized adaptive testing, and statistical computing in R.