



## ASSESSING MEASUREMENT RELIABILITY & VALIDITY

Presented by Professor Angie Wade

Director, Centre for Applied Statistics Courses, University College  
London, Institute of Child Health in collaboration with the Statistical  
Consulting Centre, NIASRA, UOW

Date: February 6, 2019  
Time: 10:00 – 4:30  
Venue: 21.G08  
Cost: \$150 students \$180 staff \$330 external

Course summary: This course gives an introduction to the concepts of reliability and validity, how the two are associated and the methods commonly used for assessing these factors in different data types and study designs. Knowledge of basic statistical concepts (e.g. p-values, confidence intervals) is beneficial for this course. Topics covered:

- Types of validity
- Assessing validity of numeric and categorical outcomes
- Types of reliability
- Assessing reliability for numeric outcomes
- Bland-Altman Limits of Agreement
- Intraclass Correlation
- Assessing reliability for categorical outcomes
- Kappa
- Internal reliability for assessment measures
- Correlation



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Professor Angie Wade, Professor of Medical Statistics is Head of Clinical Epidemiology, Nutrition and Biostatistics Section of the Population, Policy and Practice Program at ICH. Angie has an h-index of 35, and a total of 166 peer reviewed publications with a current annual citation rate of about 500. Details of her courses can be found on her website ([www.ucl.ac.uk/stats-courses](http://www.ucl.ac.uk/stats-courses))

