

## Eye data quality: measuring, calculating, and reporting

Introduction The quality of the data produced by eye trackers has a profound effect on what can be reliably measured and inferred in research results, and also on the limitations of any gaze enabled or gaze controlled interface. This tutorial is intended for anyone who wants to know more about how eye tracking systems compare in terms of data quality, how to calculate and report data quality for replicability of research results, and how to make well informed decisions about data exclusion. The tutorial will include both theoretical and practical instruction based on the methods and measures developed by the EMRA/COGAIN Eye Data Quality Standardisation Committee. At the end of the tutorial, participants should be familiar with various measures of data quality and how to interpret them as well as gain practical experience with open source software designed for this purpose. We welcome researchers at all stages of their career and will include time to consult with teachers regarding your own research and data.

time content instructor

9:00 – 10:30	Lecture 1: Introduction to data quality, hardware considerations, event detection	Fiona, Dixon, Jeff
10:30 – 10:45	Coffee break	
10:45-12:00	Practical Session	Marcus, Dong
12:00-13:00	Lunch	
13:00-13:30	Student questions & introductions – what is your interest in eye data quality and what questions would you like answered by this course?	Students with Dixon, Marcus, Fiona, Dong
13:30-14:30	Lecture 2: In-depth data quality measures - comparing measures & systems. Interpreting raw data plots. Reporting data quality in a study.	Dixon, Fiona
14:30-14:45	Coffee break	
14:45-15:15	Artificial Eye	Dong
15:15-16:00	Small group sessions	All
16:00-17:00	General discussion & close	All