

Date	Workshop #	Workshop presenter (s)	Workshop Title	Brief Summary	Recommended Expertise Level	Recommended Resources for Preparation in Advance of Workshop
20th Feb	W1	Lindsay Bowman	Introduction to infant/child EEG data collection in live-interactive and computer-based paradigms	Defining and describing EEG and basic introduction to EEG recording and analysis. Discussion of challenges and solutions for successful data collection and analysis in infants, toddlers, and preschool children in both computer-based and live-interactive paradigms.	intermediates/novices who want an introduction/refresher to basics of EEG data acquisition. EEG researchers of all skill levels (including experts) who want to contribute to the discussion of best practices in pediatric EEG data collection, including in both computer-based and live, interactive paradigms.	
21st Feb	W2	Michelle de Haan	ERP data collection across settings and cultures	Introduction to ERPs, classic measures, acquisition in medical/cross-cultural settings	intermediates/novices who want an introduction/refresher to the basics of ERP analyses. EEG researchers of all skill levels (including experts) who want to contribute to the discussion of best practices in pediatric EEG data collection in different medical and cultural settings	<a href="#">broad introductory overview of the ERP method</a>
22nd Feb	W3	Steve Luck	ERP analysis part 1	Noise, filtering, artifacts, and data quality metrics in ERP analyses.	experts/intermediates who conduct ERP analyses in their research will benefit most. novices with limited ERP experience will benefit from overview of common issues in ERP data quality.	<a href="#">broad introductory overview of the ERP method</a> <a href="#">online tutorial introduction to ERP methods</a>
23rd Feb	W4	Steve Luck, MJ Heise, Lindsay Bowman	ERP analysis part 2 and general analysis issues part 1	Amplitude and latency quantification, time window and electrode selection, linear mixed effects models for trial-level analyses. (Illustrated using ERP data but relevant for all EEG analyses.)	experts/intermediates familiar with ERP analyses will benefit most. novices who have engaged in recommended advanced preparation will also benefit.	<a href="#">broad introductory overview of the ERP method</a> <a href="#">online tutorial introduction to ERP methods</a>
24th Feb	W5	Sam Wass	Brain-brain entrainment	Dual EEG analysis techniques, including concurrent synchrony (power correlations, phase locking value, wavelet coherence) and sequential entrainment (partial directed coherence, temporal response functions, cross-correlations)	experts/intermediates in some aspect of EEG analysis who want to learn about methods in brain-brain synchrony. experts/intermediates familiar with brain-brain synchrony research who want to discuss issues and advancement of this specific topic.	
27th Feb	W6	Judit Gervain, Maria Oritz	Speech-brain entrainment	Envelope tracking and oscillations in newborn EEG speech perception tasks, and overview of general speech-brain entrainment approach	experts/intermediates in some aspect of EEG analysis who want to learn about methods in speech-brain synchrony. experts/intermediates familiar with speech-brain synchrony research who want to discuss issues and advancement of this specific topic.	
28th Feb	W7	Emily Jones, Rianne Haartsen	EEG Connectivity	introduction to different metrics to estimate EEG connectivity including sensor vs source connectivity, global connectivity, graph metrics, and reliability	experts/intermediates in some aspect of EEG analysis who want to learn about methods in EEG connectivity. experts/intermediates familiar with EEG connectivity research who want to discuss issues and advancement of this specific topic. novices who have engaged in recommended advanced preparation may also benefit.	<a href="#">broad introductory overview of EEG spectral power analyses</a>
1st Mar	W8	Stefania Conte, Wanze Xie, Russell Toll, John Richards	Source localisation	Overview of the EEG source localization pipeline, with adjustments necessary to perform localization in infants and children. Discussion of specific procedures needed for different types of EEG signal and data structure.	experts/intermediates in some aspect of EEG analysis who want to learn about pediatric source localisation. experts/intermediates familiar with EEG source localisation who want to discuss issues and advancement of this specific topic. novices will benefit from general introduction to the source localisation technique.	
2nd Mar	W9	Robert Oostenveld, Jan-Mathijs Schoffelen, Marlene Meyer	General analysis issues part 2: statistical analysis, effect sizes and sample-size estimates	Statistical analyses, focusing on parametric vs non-parametric methods; a priori analyses to estimate sample sizes; how to report effect sizes.	experts and intermediates who are already conducting EEG research. novices who have engaged in recommended advanced preparation may also benefit.	<a href="https://doi.org/10.1111/psyp.12639">https://doi.org/10.1111/psyp.12639</a> <a href="https://doi.org/10.3389/fnhum.2012.00119">https://doi.org/10.3389/fnhum.2012.00119</a> <a href="http://doi.org/10.1007/978-3-319-26633-6_13">http://doi.org/10.1007/978-3-319-26633-6_13</a> (also available from <a href="https://hal.inria.fr/hal-01377894">https://hal.inria.fr/hal-01377894</a> )
3rd Mar	W10	George Buzzell	Time frequency analyses: Time-frequency PCA	Time-frequency representations of task-related EEG, emphasising time-frequency principal components analysis.	Experts/intermediates in some aspect of EEG analysis who want to learn about time-frequency PCA methods. experts/intermediates familiar with time-frequency PCA analyses who want to discuss issues and advancement of this specific topic. Novices who have engaged in recommended advanced preparation may also benefit.	<a href="#">broad introductory overview of EEG spectral power analyses</a> <a href="#">Paper providing an introduction to TF-PCA</a>