

4th Birmingham ERP Boot Camp (17-20 July, 2018)

Professor Steve Luck, Center for Mind and Brain, University of California, Davis

Professor Emily Kappenman, Department of Psychology, San Diego State University

Hosted by Professor Kim Shapiro, School of Psychology, University of Birmingham, UK

Tuesday (17 July)		
9:00 – 9:30	Coffee break	Muirhead Atrium
9:30 – 11:00	Introduction to ERPs and Examples of ERP Research Led by Steve Luck	Muirhead G15
11:00 – 11:15	Coffee break	Muirhead Atrium
11:15 – 13:00	Background Principles and Neural Origins Led by Steve Luck	Muirhead G15
13:00 – 14:00	Lunch break	Muirhead Atrium
14:00 – 16:00	More Examples of ERP Research Led by Steve Luck	Muirhead G15
16:00 – 16:15	Coffee break	Muirhead Atrium
16:15 – 17:30	More Examples of ERP Research Led by Steve Luck	Muirhead G15
Wednesday (18 July)		
9:00 – 9:30	Coffee break	Muirhead Atrium
9:30 – 11:00	Common ERP Components Led by Emily Kappenman	Muirhead G15
11:00 – 11:15	Coffee break	Muirhead Atrium
11:15 – 13:00	Basic Principles of Electricity and EEG Recording Led by Emily Kappenman	Muirhead G15
13:00 – 14:00	Lunch Break	Muirhead Atrium
14:00 – 16:00	Filtering Led by Steve Luck	Muirhead G15
16:00 – 16:15	Coffee break	Muirhead Atrium
16:15 – 17:30	Averaging and Time-Frequency Analysis Led by Steve Luck	Muirhead G15

Thursday (19 July)		
9:00 – 9:30	Coffee break	Muirhead Atrium
9:30 – 11:00	Common Artifacts and Artifact Rejection Led by Emily Kappenman	Muirhead G15
11:00 – 11:15	Coffee break	Muirhead Atrium
11:15 – 13:00	Artifact Correction with Independent Component Analysis Led by Steve Luck	Muirhead G15
13:00 – 14:00	Lunch Break	Muirhead Atrium
14:00 – 16:00	Demonstration of Artifact Rejection/Correction Led by Emily Kappenman	Muirhead G15
16:00 – 16:15	Coffee break	Muirhead Atrium
16:15 – 17:30	The Design and Interpretation of ERP Experiments Led by Steve Luck	Muirhead G15
Friday (20 July)		
9:00 – 9:30	Coffee break	Muirhead Atrium
9:30 – 11:00	Quantifying Component Amplitudes and Latencies Led by Emily Kappenman	Muirhead G15
11:00 – 11:15	Coffee break	Muirhead Atrium
11:15 – 13:00	Statistical Analysis of ERP Data Led by Emily Kappenman	Muirhead G15
13:00 – 14:00	Lunch Break	Muirhead Atrium
14:00 – 16:00	Practical Issues in Conducting and Reporting ERP Research Led by Emily Kappenman	Muirhead G15
16:00 – 16:15	Coffee break	Muirhead Atrium
16:15 – 17:30	More Practical Issues Led by Emily Kappenman	Muirhead G15

Suggested readings:

- Kappenman, E. S. & Luck, S. J. (2016). ***Best practices for event-related potential research in clinical populations***. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 1, 110-115.
- Kappenman, E. S., & Luck, S. J. (2012). ***ERP components: The ups and downs of brainwave recordings***. In S. J. Luck & E. S. Kappenman (Eds.), *The Oxford handbook of event-related potential components* (pp. 3–30). New York, NY: Oxford University Press.
- Luck, S.J. (2014). ***An Introduction to the Event-Related Potential Technique***, Second Edition. Cambridge, MA: MIT Press.
- Luck, S. J., & Kappenman, E. S. (2016). ***Electroencephalography and Event-Related Brain Potentials***. In J. T. Cacioppo, L. G. Tassinary & G. G. Berntson (Eds.), *Handbook of Psychophysiology*, 4th Edition (pp. 74-100). New York: Cambridge University Press.
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