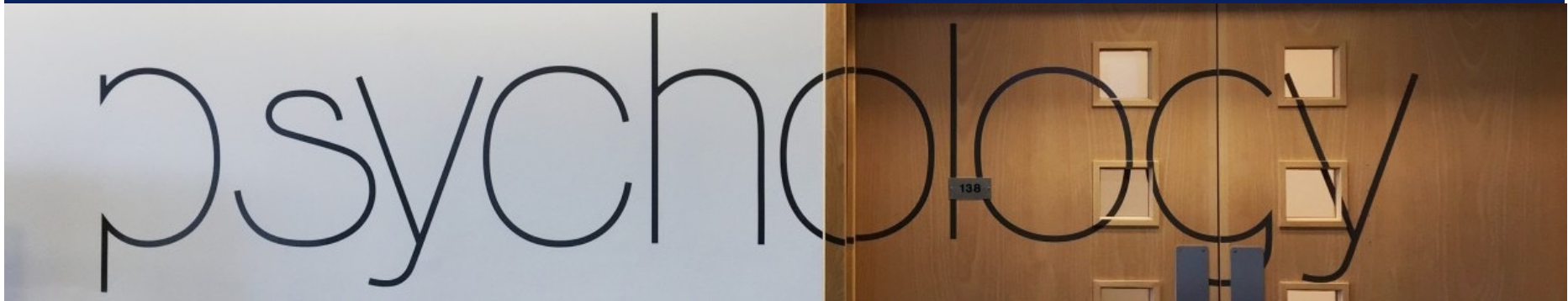


The equipment we have and how to book it

Joe Rennie Taylor

Psychology Technician, University of Brighton



The British
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Mobile Eye tracker

- SMI RED250 Mobile
- Portable, but used in Applied Cognition lab if possible
- Laptop sized, screen based, capable of measuring:
 - eye movements
 - fixation duration
 - pupilometry
 - saccades (fastest movement of human body ~20ms)
- Present images, videos, websites or mount remotely
- No need for head rests, or for the participant to remain completely still!
- Easy, robust calibration with glasses and mascara
- Very easily programmed experiments



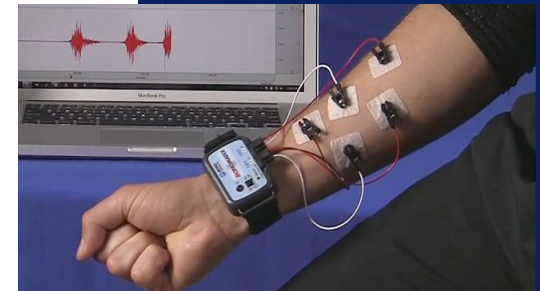
Eye tracking glasses

- Totally mobile solution - glasses and data recorder
- Records:
 - scene viewed
 - where the subject is looking in the scene
 - audio
- Can be remote monitored in real time
- Easy analysis

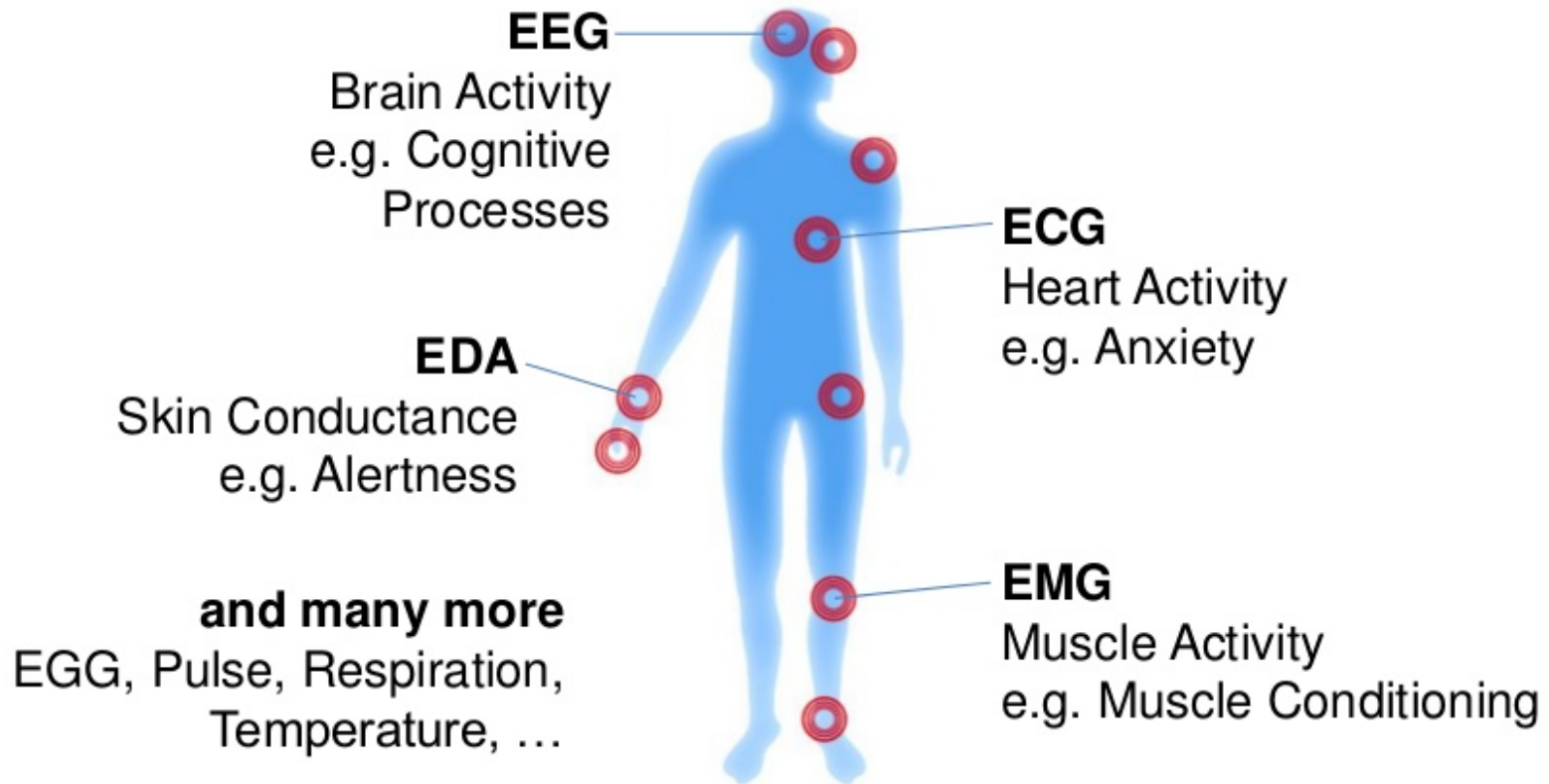


Psychophysiology monitoring

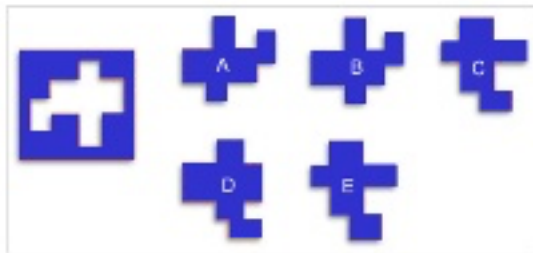
- BIOPAC MP160 - Research quality measurement of emotion, arousal, stress, and startle
- Static measurements:
 - blood pressure
 - response monitoring
- BioNomadix wearable wireless devices (~10m range):
 - Electroencephalogram (EEG - brain activity)
 - Electrocardiogram (ECG - heart rhythm and electrical activity)
 - Electromyograph (EMG - electrical activity produced by skeletal muscles)
 - Pulse rate
 - Electrodermal activity (EDA - skin conductance or Galvanic Skin Response)
- Capacity to be vastly expanded - 16 channels



Psychophysiology monitoring



Integrate psychophysiology and eye tracking



Which parts in a task
cause cognitive load?
EEG + Eye Tracking

Eye Tracking - Cause



Physiology - Effect



What situations cause
anxiety?
EDA + Eye Tracking

How do we plan and
execute motor tasks?
EMG + Eye Tracking



What are strategies to deal
with complex situations?
ECG + Eye Tracking



Source: Mischo, Findlay & Rose, 2016 *Integrating Eye Tracking Data with Physiological Measurements*



University of Brighton

How do you book the equipment?

- Contact me to discuss your needs and book a demonstration J.a.taylor@brighton.ac.uk
- However, keep in mind time restrictions
 - Priority is for psychology students and psychology staff
 - Dissertation time is not possible (November - end May)
- Comprehensive information will be posted on the lab's website in due course: blogs.brighton.ac.uk/sasspsychlab



blogs.brighton.ac.uk/sasspsychlab/

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psychology

SASS Psychology lab at the University of Brighton

JOE'S BLOG

SONA

PSYCHOMETRIC TESTS

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LAB POLICIES

CONTACT JOE

TOPICS

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FACILITIES, RESOURCES, TECH
LAB EQUIPMENT

GUIDANCE, RESOURCES
SPSS AND RESEARCH METHODS HELP

FACILITIES
LAB SPACE BOOKINGS

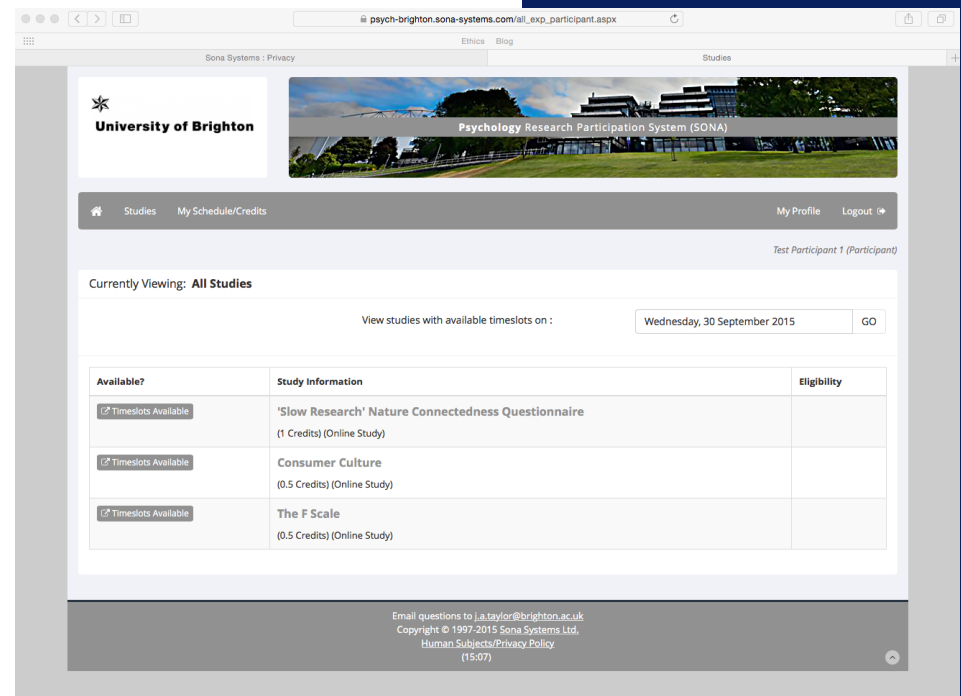
HOW CAN THE LAB HELP YOU?

The psychology lab (M138, Mayfield House) is run by [Joe the psychology technician](#), and is here to support University of Brighton psychology students and staff at all levels to carry out excellent psychological research. Third year University of Brighton psychology students can access the lab at any time using their



What else can we offer?

- I can offer help with training on how to safely and effectively use the equipment
- I can help program experiments and with practical issues
- Potential help recruiting participants if the study has a psychological angle (SONA), and undergraduate University of Brighton psychology students are not in your exclusion criteria



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