Ganztägiger Workshop zum Thema „Building Experimental Devices Yourself – Introduction to Electronic and Sensors“

Dozent: Florian Gouret M.Sc., Universität Freiburg
Zeit: **31.07.2020 10:00-18:00 Uhr** (Mittagspause von 13:00 bis 14:00 Uhr)
Ort: SR 4003 Psychologisches Institut (Engelbergerstr. 41)
Sprache: Englisch

**Aufbau und Inhalte des Workshops**

While designing an experiment, we may face the issue that no simple, readily available devices suit our needs and therefore have to get some more sophisticated ones or even to cancel the experiment. Nowadays and with current technologies, this problem can be, most of the time, overtaken by designing our own devices ourselves. After a short introduction, this is possible even without prior knowledge of electronics.

In this workshop, participants will learn how basic sensors (e.g., buttons, pressure devices, flex sensors, colour identifiers) work, how they can be built easily from low cost base parts, and how simple it is to collect accurate data with them. During the first half of the day, the focus will be on understanding basic electronics (read a circuit, make a circuit, calculate the voltage needed, and collect data...) through theoretical and practical approaches. During the second half of the day, participants will have time to work on building a device themselves.

**Important:**
- All devices and sensors will be provided, however participants will need to bring a laptop
- While experimenting, some people may be scared of damaging devices and sensors, this is not a problem as current and voltage used are really small and thus harmless.

**Remarks:** a pool of sensors will be picked according to what seems to be interesting to know for various psychological experiments, however, in case someone has a particular request, please contact Florian Gouret (florian.gouret@psychologie.uni-freiburg.de) to see if it is possible to work on something related.

In case you would like to attend this workshop, please send an email to Florian Gouret. And if you are generally interested, but cannot attend on 31.07.2020, please also let him know.

**Anmeldung**
Zulassung: vorzugsweise für Postdoktorand/innen und Doktorand/innen der WVF
Anmeldung: per E-Mail an florian.gouret@psychologie.uni-freiburg.de bis 15.07.2020
Auswahl: erfolgt nach dem Prinzip first come, first serve
Teilnehmerzahl: 6 bis 18

**WVF-Nachwuchsförderungsprogramm 2020-2021**
**Koordination: Dr. Yvonne Ziegler**