

Interdisziplinäres Qualifikationsprogramm für Nachwuchswissenschaftler/innen der Wirtschafts- und Verhaltenswissenschaftlichen Fakultät der Universität Freiburg

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 – complex 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 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