

**Name: Experimental Psychology Research Group**

**Institute of Psychology**

**Head of Research Group:** [Prof. Dr. Horváth János](#)

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**Finished:** -

**Members:**

- [Dr. Nagybányai-Nagy Olivér](#)
- [Dr. Takács Szabolcs](#)
- Varga Sámuel (külső tag)

**Research partners:**

- Dr. Neszmélyi Bence

**Brief description of research activity and profile:**

The research group investigates action-perception interactions with the methods of experimental psychology. Tool-use relies on our fundamental ability to predict the consequences of our actions and represent these consequences differentially according to their relevance. Efficient tool-use, however, does not rely only on predictions about the effects and goals of the actions, but also on whether we can adapt our actions and movements to the physical constraints of the given interaction. The goal of our research is to understand the processes contributing to this adaptation, and explore potential individual differences in this adaptation. Our results may provide basic research support for the ergonomic design of user interfaces, the enhancement of motor skill learning or rehabilitation procedures.

**Joint publications:**

**Individual publications:**