

Klinik und Poliklinik für Psychiatrie und Psychotherapie (Direktorin: Prof. Dr. Philipsen)  
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## Call for Master's thesis in the field of Psychology and Artificial Intelligence

Dear Students

Our research group Virtual Reality Therapy and Medical Technology (Head: Dr. Niclas Braun) at the Department of Psychiatry and Psychotherapy (Director: Prof. Dr. Alexandra Philipsen) is offering one Master or med. Doctorate thesis projects on a **systematic review and meta-analysis of the use of Virtual Reality (VR) and Large Language Models (LLMs) in clinical and therapeutic contexts.**

### Short Description:

- The combination of Large Language Models (LLMs) and Virtual Reality (VR) opens up new possibilities for structured and immersive therapeutic interventions.
- Although clinical interest is growing rapidly, there is still limited evidence on which supervised and highly structured conversational formats are most suitable for therapeutic use.
- The aim of these project is therefore to conduct a systematic review and meta-analysis on the use of VR and LLMs in clinical and therapeutic contexts.

### Tasks:

- Planning and conducting a comprehensive literature search
- Performing a systematic review according to established methodological standards (e.g., PRISMA)
- Executing a meta-analysis of existing empirical studies on VR and LLMs in therapeutic contexts
- Identifying relevant dialogue structures and therapeutic interaction models
- Contributing to the development of an evidence-based framework for structured dialogue in VR

### Ideal Applicant Profile:

- Master's or medical doctorate student (e.g., psychology, medicine, artificial intelligence, computer science or related fields)
- Familiarity with, or strong interest in, the use of VR and AI in psychiatry and psychotherapy
- Very good command of German and English
- Independent, well-organized, and reliable working style
- High motivation for academic writing, evidence synthesis, and analytical work
- Preferred: Experience with systematic reviews, meta-analytic methods, or statistical data analysis

### Application:

Applicants with disabilities will be given preference if equally qualified, capable, and professionally competent. We look forward to receiving your application. Please submit your application, including the usual documents (cover letter, copies of certificates, CV), electronically to:

**Tobiasz Kaduk (tobiasz.kaduk@ukbonn.de)**  
**Research Group Virtual Reality Therapy and Medical Technology**  
**[www.ukbonn.de/virtual-reality](http://www.ukbonn.de/virtual-reality)**