



Does visual performance change across the menstrual cycle?

A systematic review and meta-analysis.

Tübingen / Munich / Remote · English · Master's thesis · Research internship · Erasmus+ research placement

The question

Do measures of visual performance vary across the menstrual cycle? Reports may depend on the visual task, how cycle phases are defined, and how hormonal status is measured or reported.

The project

Synthesise human studies of visual performance across the menstrual cycle. The project will examine the consistency of findings and assess how design and measurement choices affect the conclusions that can be drawn.

What you will do

- Develop a protocol, search the literature systematically and screen eligible studies.
- Extract outcomes and methodological information, including cycle ascertainment, and assess risk of bias.
- Build a reproducible synthesis and meta-analysis where outcomes and designs are sufficiently comparable.

Possible scope

A thesis could complete a focused review and quantitative synthesis. A shorter placement could contribute to searching, screening or extraction. Interest in psychophysics, research methods or quantitative evidence synthesis is useful.

Suitable backgrounds

Psychology · Neuroscience ·
Medicine · Epidemiology ·
Health science

General expectations

You should be able to analyse data in R or Python, use Git and GitHub, and work reproducibly. Independent reading, careful documentation and increasing responsibility are expected. Previous sleep or circadian research experience is not generally required.

Funding

No salary or stipend from the research group unless explicitly stated. Master's theses are generally unpaid. Mention external funding or mobility programmes when applying.

Suggested backgrounds are not formal programme approval. Confirm requirements with your home institution.

How to apply

Send a short motivation, CV, relevant skills, preferred project, dates, format and location. Mention external funding. Contact Prof. Manuel Spitschan using the address below.

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