Quinn Cabooter

Doctoral Researcher

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Research Profile

Doctoral researcher specializing in neural markers of mid-air haptic feedback, with a focus on objective user experience evaluation using psychophysiological measures. Research lies at the intersection of Human–Computer Interaction (HCI), cognitive psychology, neuroscience, and extended reality (XR).

Research Interests

- Mid-air haptics and XR interaction
- Psychophysiology and neural correlates of user experience
- Cognitive control and response inhibition
- Eye-tracking and EEG methodologies
- Objective UX measurement

Current Position

2024–Present **Doctoral Researcher**, *imec-mict, Ghent University*
- PhD project on determinants of user experience in mid-air haptic interfaces
- Focus on neural and psychophysiological markers of interaction
- Supervised by Prof. dr. Lieven De Marez and Prof. dr. Klaas Bombeke

Previous Positions

2024 **Research Fellow**, *imec-mict, Ghent University*
- Supported ongoing research projects in HCI and psychophysiology

2022–2023 **Research Assistant**, *Ghent University*
- Experimental design and data analysis
- Manuscript preparation and grant support

2021–2022 **Research Intern**, *University of Amsterdam*
- Worked on validation of webcam-based eye-tracking
- Contributed to multi-lab experimental research

Education

2022 **MSc in Theoretical and Experimental Psychology (Magna Cum Laude)**, *Ghent University*
Thesis: Pupil size as predictor of response inhibition performance

2020 **Transition Programme in Psychology (Magna Cum Laude)**, *Ghent University*

2019 **BSc in Applied Psychology (Cum Laude)**, *Hogeschool West-Vlaanderen, Bruges*

Publications

Journal Articles

2025 Doekemijer, A.R., et al. (incl. Cabooter, Q.) *From pupil to performance: exploring tonic norepinephrine and response inhibition.* Psychophysiology.

2024 Vaidis, D. C., et al. (incl. Cabooter, Q.). *A multilab replication of the induced-compliance paradigm of cognitive dissonance.* Advances in Methods and Practices in Psychological Science.

2024 Van der Cruyssen, I., et al. (incl. Cabooter, Q.). *Validation of webcam-based eye-tracking.* Behavior Research Methods.

Research Projects

2024–Present **PhD Project**, *Ghent University*
Determinants of user experience with mid-air haptic technology (Project ID: DOCT/012279)

Technical Skills

Programming Python, R, C#
Tools Unity, Arduino, Eye-tracking systems, EEG
Analysis Statistical modeling, experimental design
Other LaTeX, Overleaf

Academic Service and Training

Certifications
- R Programming (Coursera)
- Improving Statistical Inference (Coursera)

Affiliations

- imec-mict-UGent Research Group
- Department of Communication Sciences, Ghent University
- Faculty of Political and Social Sciences, Ghent University

Additional Information

Languages English (fluent), Dutch (native)
Citizenship Belgium