

Şahcan Özdemir

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Dortmund, Germany

Education & Employment

University of Groningen

2025 – present

Guest Scientist, Experimental Psychology Department

the Netherlands

Collaboration: Prof Dr. Elkan Akyürek & Dr. Wouter Kruijne

Leibniz Research Centre for Working Environment and Human Factors

2023 – present

Ruhr University Bochum

Psychology PhD Candidate

Germany

Advisor: PD Dr. Daniel Schneider

Sabancı University

2021 – 2023

Cognitive Psychology MSc, Cumulative GPA: 3.95/4.0

Turkey

Advisor: Dr. Eren Günseli

Middle East Technical University

2017 – 2021

Psychology BSc (NCC Program), Cumulative GPA: 3.90/4.0

NCC/Turkey

Publications

Özdemir, Ş., Günseli, E., & Schneider, D. (2025). Motor control processes moderate visual working memory gating. *The Journal of Neuroscience*, 45(47).

<https://doi.org/10.1523/JNEUROSCI.0673-25.2025>

Özdemir, Ş., Şentürk, Y. D., Ünver, N., Demircan, C., Olivers, C. N., Egner, T., & Günseli, E. (2024). Effects of context changes on memory reactivation. *The Journal of Neuroscience*, 44(36).

<https://doi.org/10.1523/jneurosci.2096-23.2024>

Sabo, M., Özdemir, Ş., Schneider D. (preprint). Interference Across Memory Systems: Disrupting Long-Term Memories Through Working Memory https://doi.org/10.31234/osf.io/crdnp_v1

Altaytaş, A. F.*, Armagan, I. C.*, Gulpinar, A.*, Özdemir, Ş.*, & Karakale, O. (2023). Social emotional processes during the third wave of COVID-19: Results from a close replication study in a Turkish sample. *International journal of psychology: Journal international de psychologie*, 58(5), 456–464. <https://doi.org/10.1002/ijop.12921> *shared first authorship

Ongoing Research

Writing Stage

Özdemir, Ş., Ataseven N., Kruijne W., Akyürek E. G., & Schneider, D. Key features of motor code formation in working memory.

Ataseven N., Özdemir, Ş., Schneider D., Kruijne W., & Akyurek E. G. Revealing the effect of regularities on representations in visual working memory.

Data Analysis Stage

Özdemir, Ş., Schneider, D. Effects of action uncertainty on working memory interference.

<https://osf.io/a7c3f>

Günseli, E., **Özdemir, Ş.**, Güler, B., Vogel, E., Awh, E. Top-down control over the precision of working memory representations.

Data Collection Stage

Özdemir, Ş., Ataseven N., Kruijne W., Akyürek E. G., & Schneider, D. Representational shift from sensory input to action plans in working memory

Ataseven N., **Özdemir, Ş.**, Schneider D., Kruijne W., & Akyurek E. G. Investigating the retention of task irrelevant original orientations after mental rotation.

Professional Presentations & Symposia

NVP Winter Conference

Egmond aan Zee, the Netherlands, 2025

Poster

Özdemir, Ş., Ataseven, N., Kruijne, W., Akyürek, A. & Schneider, D. Selective attention is a key feature of motor code formation in working memory/

Psychology and Brain Conference (PuG)

Würzburg, Germany, 2025

Poster

Özdemir, Ş., Günseli, E. & Schneider, D. Action Control and Working Memory Interference

Vision Science Society (VSS) Annual Meeting

Florida, USA, 2025

Poster

Özdemir, Ş., Günseli, E. & Schneider, D. Task-relevant actions trigger automatic working memory updating

Conference of Experimental Psychologists (TeaP)

Frankfurt, Germany, 2025

Symposium Organizer/Chair

Goal-oriented information processing: Adaptive working memory

Presenters: Sven Ohl, Wouter Kruijne, Saskia Fohs, Guiliana Giorjani, Sahcan Özdemir

Talk

Özdemir, Ş., Günseli, E. & Schneider, D. The role of motor representations for working memory when dealing with interference

Society for Psychophysiological Research (SPR) Meeting

Prague, Czech Republic, 2024

Poster

Özdemir, Ş., Günseli, E. & Schneider, D. The role of motor representations for working memory when dealing with interference: new evidence by neural oscillations

Working Memory Symposium

Online, 2024

Talk

Özdemir, Ş., Günseli, E. & Schneider, D. The role of motor preparations in working memory gating

Psychology and Brain Conference (PuG)

Hamburg, Germany, 2024

Poster

Özdemir, Ş., Günseli, E. & Schneider, D. The role of motor representations for working memory when dealing with interference: New evidence by neural oscillations

European Society for Cognitive Psychology Meeting (ESCOP)

Porto, Portugal, 2023

Poster

Özdemir, Ş., Öztürk, Y., Ünver, N., Egner, T., Olivers, C.N.L., & Günseli, E. Effects of Context Changes on Memory Reactivations

Working Memory Symposium

Online, 2023

Talk

Özdemir, Ş., Öztürk, Y., Ünver, N., Egner, T., Olivers, C.N.L., & Günseli, E. Effects of Context Changes on Memory Reactivations

Invited Talks

University of Groningen

Experimental Psychology Department Colloquium

Groningen, the Netherlands, 2025

Vrije Universiteit Amsterdam

Faculty of Behavioural and Movement Sciences

Organized by Proactive Brain Lab (Dr. Freek van Ede)

Amsterdam, the Netherlands, 2024

Ruhr University Bochum

Colloquium by Prof. Dr. Jonas Rose

Bochum, Germany, 2025

Teaching Experience

Teaching Assistant, **Sabanci University**

2021 – 2023

PSY310: Cognitive Processes

- Held office hours and review sessions

PSY201: Mind & Behavior

- Graded assignments and exams

Awards and Scholarships

Full scholarship granted by Sabanci University

Sep 2021 – Jan 2023

Accommodation, tuition waiver, and a monthly allowance are awarded by an evaluation regarding the academic merit upon acceptance into the master's program by the Department of Psychology

Merit Scholarship granted by Middle East Technical University

Sep 2018 – June 2021

Awarded to students in the top 3% of their program, this scholarship includes a monthly allowance

Skills

Data Acquisition

EEG, Eye Tracking

Data Analysis and Programming

MATLAB, Python, R, C

Experimental Programming

Psychtoolbox, PsychoPy

References (available upon request)

PD. Dr. Daniel Schneider

PhD Supervisor, Principal Investigator

Leibniz Research Centre for Working Environment and Human Factors

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Asst. Prof. Dr. Eren Günseli

Master's Degree Supervisor, Principal Investigator

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Prof Dr. Elkan Aky rek
Collaborator/Research Visit
University of Groningen
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