

## Şahcan Özdemir

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Dortmund, Germany

## Education & Employment

### **University of Groningen**

*Guest Scientist, Experimental Psychology Department*

the Netherlands

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

2025 – present

### **Leibniz Research Centre for Working Environment and Human Factors**

#### **Ruhr University Bochum**

*Psychology PhD Candidate*

Germany

Advisor: PD Dr. Daniel Schneider

2023 – present

### **Sabancı University**

*Cognitive Psychology MSc*, Cumulative GPA: 3.95/4.0

Turkey

Advisor: Dr. Eren Günseli

2021 – 2023

### **Middle East Technical University**

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

NCC/Turkey

2017 – 2021

## 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](https://doi.org/10.31234/osf.io/crdnp_v1)

Altaytaş, A. F.\*., Arıman, 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, S.**, Güler, B., Vogel, E., Awh, E. Top-down control over the precision of working memory representations.

#### **Data Collection Stage**

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

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

#### **Professional Presentations & Symposia**

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##### **NVP Winter Conference**

Egmond aan Zee, the Netherlands, 2025

##### **Poster**

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

##### **Vision Science Society (VSS) Annual Meeting**

Florida, USA, 2025

##### **Poster**

**Özdemir, S.**, 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, Giuliana Giorjani, Sahcan Özdemir

##### **Talk**

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

##### **Psychology and Brain Conference (PuG)**

Hamburg, Germany, 2024

##### **Poster**

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

## Invited Talks

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### 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

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### Teaching Assistant, Sabancı University

2021 – 2023

PSY310: Cognitive Processes

- Held office hours and review sessions

PSY201: Mind & Behavior

- Graded assignments and exams

## Awards and Scholarships

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### Full scholarship granted by Sabancı 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

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### Data Acquisition

EEG, Eye Tracking

### Data Analysis and Programming

MATLAB, Python, R, C

### Experimental Programming

Psychtoolbox, PsychoPy

## References (available upon request)

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### PD. Dr. Daniel Schneider

*PhD Supervisor, Principal Investigator*

Leibniz Research Centre for Working Environment and Human Factors

[schneiderd@ifado.de](mailto:schneiderd@ifado.de)

### Asst. Prof. Dr. Eren Günseli

*Master's Degree Supervisor, Principal Investigator*

Sabancı University

[eren.gunseli@sabanciuniv.edu](mailto:eren.gunseli@sabanciuniv.edu)

**Prof Dr. Elkan Akyürek**  
Collaborator/Research Visit  
University of Groningen  
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