

## PUBLICATIONS

*Student trainees are underlined*

*\* indicates shared first authorship*

*Estimates of my contribution is written in parenthesis next to my name*

### Journal papers

- Akyürek, E. G., Altınok, A., & **Karabay, A. (30%)** Concurrent consumption of cocoa flavanols and caffeine does not acutely modulate working memory and attention. *European Journal of Nutrition* <https://osf.io/preprints/psyarxiv/49juh> In press
- Karabay, A.\* (80%)**, Nijenkamp, R.\*, Sarampalis, A., & Fougny, D. Introducing ART: a new method of testing auditory memory with circular reproduction tasks. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-024-02477-2> 2024
- Guérin, S. M. R., Tarlao, C., & **Karabay, A. (35%)** Our Journey as Intern Junior Editors at the Journal of Experimental Psychology: Human Perception and Performance. *Science Editing*, 11(2), 160-163. <https://doi.org/10.6087/kcse.345> 2024
- Kandemir, G.\*, Wolff, M. J. \*, **Karabay, A., (30%)**, Stokes, M. G., Axmacher, N., & Akyürek, E. G. Concurrent maintenance of both veridical and transformed working memory representations. *Imaging Neuroscience*, 2, 1–20. [https://doi.org/10.1162/imag\\_a\\_00173](https://doi.org/10.1162/imag_a_00173) 2024
- Wang, S., **Karabay, A., (50%)** & Akyürek, E. G. Attentional blur and blink: Effects of adaptive attentional scaling on visual awareness. *Consciousness and Cognition*, 117(3), 1–15. <https://doi.org/10.1016/j.concog.2023.103627> 2024
- Altınok, A., **Karabay, A., (40%)** Balta, G., de Jonge, J., & Akyürek, E.G. Effects of gamma-aminobutyric acid on working memory and attention: A randomized, double-blinded, placebo-controlled, crossover trial. *Journal of Psychopharmacology*, 37(6), 554–565. <https://doi.org/10.1177/02698811231161579> 2023
- Chen, I. Y., **Karabay, A. (30%)**, Mathôt, S., Bowman, H., & Akyürek, E. G. Concealed identity information detection with pupillometry in rapid serial visual presentation. *Psychophysiology*, 60(1). 1-14. <https://doi.org/10.1111/psyp.14155> 2023
- Karabay, A. (85%)**, Wilhelm, S. A., de Jonge, J., Wang, J., Martens, S., & Akyürek, E. G. Two faces of perceptual awareness during the attentional blink: Gradual and discrete. *Journal of Experimental psychology: General*, 151(7), 1520–1541. <https://doi.org/10.1037/xge0001156> 2022
- Altınok, A., **Karabay, A. (60%)** & Akyürek, E. G. Acute effects of cocoa flavanols on visual working memory: Maintenance and updating. *European Journal of Nutrition*, 61(3), 1665–1678. <https://doi.org/10.1007/s00394-021-02767-x> 2022
- Karataş, O., **Karabay, A., (50%)** & Alici, T. The effects of long-term cocoa flavanols intake on cognitive functions and mood, and the physiological mechanisms underlying these effects: A literature review. *Turkish Psychological Articles*, 25(49). 1–26. <https://doi.org/10.31828/tpy1301996120211203m000043> 2022
- Karabay, A. (80%)**, & Kurylo, D. D. Discriminating global orientation of two element sets. *Journal of Cognition*, 3(1), 1-13. <https://doi.org/10.5334/joc.127> 2020
- Karabay, A. (80%)**, & Akyürek, E. G. Temporal integration and attentional selection of color and contrast target pairs in rapid serial visual presentation. *Acta Psychologica*, 196, 56–69. <https://doi.org/10.1016/j.actpsy.2019.04.002> 2019
- Karabay, A. (80%)**, Saija, J. D., Field, D. T., & Akyürek, E. G. The acute effects of cocoa flavanols on temporal and spatial attention. *Psychopharmacology*, 235(5), 1497–1511. <https://doi.org/10.1007/s00213-018-4861-4> 2018
- Karabay, A. (80%)**, & Akyürek, E. G. The effects of Kanizsa contours on temporal integration and attention in rapid serial visual presentation. *Attention, Perception, & Psychophysics*, 79(6), 1742–1754. <https://doi.org/10.3758/s13414-017-1333-6> 2017

### Books

**Karabay, A.** Duyum ve algı (Sensation and Perception). In . G. ZEREN (Eds.), *Fizyolojik Psikoloji* (Physiological Psychology) (pp. 203–233). Eğiten Kitap. Ankara, Turkey. 2022

Cotton, R. (2013). *Learning R* (Sünbül, Ö., Sünbül, S. Ö., & **Karabay, A.**, Trans). Pegem Press. 2021  
İstanbul, Turkey.

## PRESENTATIONS

### Talks

#### *Invited talks*

**Karabay, A.** Taking a snapshot of the brain: Visual impulse reveals (non)persistent neural activity by perturbation and increasing signal-noise ratio. *CCN meeting, Ghent University* in Gent, Belgium. 08/2022

#### *Conference talks*

Chen, I., Mathôt, S., van der Mij, R., **Karabay, A.**, Bowman, H., & Akyürek, E. Concealed familiar face detection with EEG in rapid serial visual presentation. *23rd Conference of the European Society for Cognitive Psychology (ESCoP)* in Porto, Portugal. 09/2023

Wang, S., **Karabay, A.**, & Akyürek, E. G. Attentional blur and blink: Effects of adaptive attentional scaling on visual awareness. *23rd Conference of the European Society for Cognitive Psychology (ESCoP)* in Porto, Portugal. 09/2023

Akyürek, E. G., Kandemir, G., Wolff, M., **Karabay, A.**, & Wilhelm, S. Probing latent working memory representations in EEG. *22st Conference of the European Society for Cognitive Psychology (ESCoP)* in Lille, France. 08/2022

Chen, I., Buchel, P., **Karabay, A.**, Mathôt, S., & Akyürek, E. G. Concealed familiar face detection with pupillometry in rapid serial visual presentation. *22st Conference of the European Society for Cognitive Psychology (ESCoP)* in Lille, France. 08/2022

Wang, S., **Karabay, A.**, & Akyürek, E. G. Which working memory model accounts best for target representation during the attentional blink? *22st Conference of the European Society for Cognitive Psychology (ESCoP)* in Lille, France. 08/2022

**Karabay, A.**, Wolff, M. J., Ruuskanen, V., & Akyürek, E. G. A visual impulse reveals memoranda embedded in functional connectivity: Evidence for activity-silent WM states. Symposium *Interactions between sensory representations and cognitive control in working memory* at the *International Conference of Cognitive Neuroscience 2020* in Helsinki, Finland. 05/2022

**Karabay, A.**, Wang, J., Wilhelm, S., Martens, S., & Akyürek, E. G. Two faces of the attentional blink: Gradual and discrete loss of perceptual awareness. *17th NVP Winter Conference* in Egmond, the Netherlands. 12/2019

**Karabay, A.**, Wang, J., Martens, S., & Akyürek, E. G. The attentional blink: Binary or gradual? *21st Conference of the European Society for Cognitive Psychology (ESCoP)* in Tenerife, Spain. 09/2019

Kandemir, G., **Karabay, A.**, & Akyürek, E. G. Decoding sensory and abstract information from activity silent brain states. *21st Conference of the European Society for Cognitive Psychology (ESCoP)* in Tenerife, Spain. 09/2019

**Karabay, A.**, Saija J., Field, D. T., & Akyürek, E.G. The acute effects of cocoa flavanols on temporal and spatial attention. *The winter conference 2017 of De Nederlandse Vereniging voor Psychonomie* in Egmond, the Netherlands. 12/2017

Er N., **Karabay, A.**, Kaynar, G., Uysal, M. M., & Boyraz, F. U. İstemli & istemsiz otobiyografik anılarda yaşa bağlı değişimler (Variations of voluntary and involuntary autobiographical memories depending on age). *The 17th National Psychology Congress* in Istanbul, Turkey. 05/2012

**Karabay, A.**, & Çakmak, M.A. Engellenme karşısında verilen tepkiler ile kişilik tiplerinin ve yüklem çeşitlerinin ilişkisi (The relationship between frustration responses, personality types, and attribution). *The 14th Ulusal Psikoloji Öğrencileri Kongresi (14th National Conference of Psychology Students)* in Istanbul, Turkey. 12/2009

## Posters

- Karabay, A.**, & Fougny, D. Evidence against levels of processing theories of visual awareness. 07/2024  
*Asia Pacific Conference On Vision 2024* in Singapore.
- Sasin, E., Zhou, Y., **Karabay, A.**, Shrestha, S., & Fougny, D. Where's Waldo in the mind: Accessing perceptual and semantic attributes in perception and working memory. 05/2024  
*The Vision Sciences Society Meeting 2024* in Florida, USA.
- Chen, I., Mathôt, S., van der Mij, R., **Karabay, A.**, Bowman, H., & Akyürek, E. Concealed familiar face detection with EEG in rapid serial visual presentation. 08/2023  
*the 45th European Conference on Visual Perception (ECVP)* in Paphos, Cyprus.
- Fougny, D., **Karabay, A.**, Nijenkamp, R., & Sarampalis, A. Introducing ART: a new method of testing auditory memory with circular reproduction tasks. 05/2023  
*The Vision Sciences Society Meeting 2023* in Florida, USA.
- Chen, I., **Karabay, A.**, Mathôt, S., Buchel, P., van der Mij, R., Bowman, H., & Akyürek, E. Concealed familiar face detection with oculomotor measures and EEG in rapid serial visual presentation. 05/2023  
*The Vision Sciences Society Meeting 2023* in Florida, USA.
- Karabay, A.**, Kandemir, G., Kovács, E.R., & Akyürek, E.G. Pinging attentional task rules: Neural mechanisms underlying attending and suppressing in visual search tasks. 08/2022  
*The 22st Conference of the European Society for Cognitive Psychology (ESCoP)* in Lille, France.
- Altınok, A., **Karabay, A.**, Lorist, M. M., Weiden, D., & Akyürek, E.G. The acute effects of caffeine and cocoa flavanols on working memory and attention. 08/2022  
*The 22st Conference of the European Society for Cognitive Psychology (ESCoP)* in Lille, France.
- Chen, I., Buchel, P., **Karabay, A.**, Mathôt, S., Bowman, H., & Akyürek, E. G. Concealed information detection with pupillometry in rapid serial visual presentation. 05/2022  
*The International Conference of Cognitive Neuroscience 2020* in Helsinki, Finland.
- Karabay, A.**, Wolff, M. J., Ruuskanen, V., & Akyürek, E. G. Visual impulse perturbation: Neural sonar or just noise-reducer? 04/2022  
*The 18th NVP Winter Conference* in Egmond, the Netherlands.
- Chen, I., **Karabay, A.**, Mathôt, S., Bowman, H., & Akyürek, E. G. Concealed identity information detection with pupillometry in rapid serial visual presentation. 04/2022  
*The 18th NVP Winter Conference* in Egmond, the Netherlands.
- Wang, S., **Karabay, A.**, & Akyürek, E. G. (2022, April). Which working memory model accounts best for target representation in the attentional blink? 04/2022  
*The 18th NVP Winter Conference* in Egmond, the Netherlands.
- Altınok, A., Balta, G., **Karabay, A.**, & Akyürek, E. G. The effects of gamma-aminobutyric acid (GABA) on working memory and attention. 04/2022  
*The 18th NVP Winter Conference* in Egmond, the Netherlands.
- Kandemir, G., **Karabay, A.**, & Akyürek, E. G. Seeing double? Activity-silent maintenance of mental rotation products and their originals. 12/2019  
*The 17th NVP Winter Conference* in Egmond, the Netherlands.
- Altınok, A., **Karabay, A.**, & Akyürek, E. G. The acute effects of cocoa flavanols on visual working memory. 09/2019  
*The 21st Conference of the European Society for Cognitive Psychology (ESCoP)* in Tenerife, Spain.
- Kandemir, G., **Karabay, A.**, & Akyürek, E. G. Decoding visual working memory before and after mental operations. 02/2019  
*The BCN Winter Meeting* in Twente, the Netherlands.
- Karabay, A.**, & Akyürek, E. G. Target color and contrast influences temporal attention in rapid serial visual presentation. 08/2017  
*The International meeting of the Psychonomics Society in Amsterdam, Netherlands; the 40th European Conference on Visual Perception (ECVP)* in Berlin, Germany.
- Karabay, A.**, & Akyürek, E. G. Kanizsa effects on temporal integration and attention. 04/2017  
*The Heymans Symposium* in Groningen, the Netherlands.
- Karabay, A.**, & Kurylo, D.D. Perceptual grouping by orientation coherence. 05/2015  
*The Science Day, Brooklyn College* in New York, USA.

Er, N., **Karabay, A.**, Kaynar, G., Uysal, M. M., & Boyraz, F. U. Autobiography of aging mind: age-related effects on voluntary and involuntary autobiographical memories. *The IX International Cognitive Neuroscience Meeting* in Istanbul, Turkey. 04/2012