**Aytaç Karabay**

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**EXPERIENCE**

***Research Experience***

**Postdoctoral Researcher,** University of Groningen, Groningen, NL, 2020-2022

Project: *Hidden brain states underlying efficient representations in working memory*

Supervisor: prof. Elkan G. Akyürek

Grant Source: Open Research Area

**Research Assistant,** CUNY-Brooklyn College, New York, USA, 2014-2015

Supervisor: dr. Daniel Kurylo

Position: Volunteer laboratory assistant in animal-vision psychophysics laboratory.

***Teaching Experience***

*University of Groningen:*

2021, Cognition and Attention, Guest Lecturer

2018-2019, Academic Skills, Lecturer

2017-2018, Honors Research Practicum, Mentor

**EDUCATION**

**Ph.D., Cognitive Neuroscience,** University of Groningen, Groningen, NL, 2020

Topic: Cognitive Neuroscience  
Dissertation:*From Stimulus to Representation: Target Identification in Rapid Serial Visual Presentation*

Promotors: prof. Elkan G. Akyürek, prof. Monicque M. Lorist

**M.A., Experimental Psychology,** CUNY-Brooklyn College, New York, USA, 2015

Topic: Experimental Psychology

Dissertation: *Perceptual Grouping by Orientation Coherence*  
Supervisor: dr. Daniel D. Kurylo

**B.A., Psychology,** Ankara University, Ankara, TR, 2011

Dissertation: *Differences Between Voluntary and Involuntary Autobiographical Memories*  
Supervisor: prof. Nurhan Er

**PUBLICATIONS**

***Journal Articles***

Altınok, A., **Karabay, A.**, & Akyürek, E. G. (2022). Acute effects of cocoa flavanols on visual working memory: Maintenance and updating. *European Journal of Nutrition.* doi: 10.1007/s00394-021-02767-x

**Karabay, A.,** Wilhelm, S. A., de Jonge, J., Wang, J., Martens, S., & Akyürek, E. G. (2021). Two faces of perceptual awareness during the attentional blink: Gradual and discrete. *Journal of Experimental psychology: General.* doi:10.1037/xge0001156

Karataş, O., **Karabay, A.**, & Alıcı, T. (*in press*). The effects of long-term intake of cocoa flavanols on cognitive functions and mood, and the physiological mechanisms underlying these effects: A literature review. *Turkish Psychological Articles.*

**Karabay, A.,** & Kurylo, D. D. (2020). Discriminating global orientation of two element sets. *Journal of Cognition, 3*(1), 1-13. doi:10.5334/joc.127

**Karabay, A.,** & Akyürek, E. G. (2019). Temporal integration and attentional selection of color and contrast target pairs in rapid serial visual presentation. *Acta Psychologica*, *196*, 56–69. doi:10.1016/j.actpsy.2019.04.002

**Karabay, A.**, Saija, J. D., Field, D. T., & Akyürek, E. G. (2018). The acute effects of cocoa flavanols on temporal and spatial attention. *Psychopharmacology, 235*(5), 1497–1511. doi:10.1007/s00213-018-4861-4

**Karabay, A.,** & Akyürek, E. G. (2017). The effects of Kanizsa contours on temporal integration and attention in rapid serial visual presentation. *Attention, Perception, & Psychophysics, 79*(6), 1742–1754. doi:10.3758/s13414-017-1333-6

***Book Chapters***

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

**PRESENTATIONS**

***Talks***

**Karabay, A.**,Wang, J., Wilhelm, S., Martens, S., & Akyürek, E. G. (2019, December). Two faces of the Attentional Blink: Gradual and discrete loss of perceptual awareness. Oral session presented at the 17th NVP Winter Conference in Egmond, Netherlands.

**Karabay, A.**, Wang, J., Martens, S., & Akyürek, E. G. (2019, September). The Attentional Blink: Binary Or Gradual? Oral session presented at the 21st Conference of the European Society for Cognitive Psychology (ESCoP) in Tenerife, Spain.

Kandemir, G., **Karabay, A.,** & Akyürek, E. G. (2019, September). Decoding Sensory and Abstract Information From Activity Silent Brain States. Oral session presented at the 21st Conference of the European Society for Cognitive Psychology (ESCoP) in Tenerife, Spain.

**Karabay, A.**, Saija J., Field, D. T., & Akyürek, E.G. (2017, December). The Acute Effects of Cocoa Flavanols on Temporal and Spatial Attention. Oral session presented at the winter conference 2017 of De Nederlandse Vereniging voor Psychonomie in Egmond, Netherlands.

Er N., **Karabay, A.**, Kaynar, G., Uysal, M. M., & Boyraz, F. U. (2012, May). İstemli & İstemsiz Otobiyografik Anilarda Yaşa Bağli Değişimler (Variations of Voluntary and Involuntary Autobiographical Memories Depending on Age). Oral Session presented at the 17th National Psychology Congress in Istanbul, Turkey.

**Karabay, A.,** & Çakmak, M.A. (2009, July). Engellenme Karşısında Verilen Tepkiler İle Kişilik Tiplerinin Ve Yükleme Çeşitlerinin İlişkisi (The Relationship between Frustration Responses, Personality Types, and Attribution). Oral session presented at the 14th Ulusal Psikoloji Ogrencileri Kongresi (14th National Conference of Psychology Students) in Istanbul, Turkey.

***Posters***

Kandemir, G., **Karabay, A.,** & Akyürek, E. G. (2019, December). Seeing double? Activity-silent maintenance of mental rotation products and their originals. Poster Session presented at the 17th NVP Winter Conference in Egmond, Netherlands.

Altınok, A., **Karabay, A.**, & Akyürek, E. G. (2019, September). The Acute Effects Of Cocoa Flavanols On Visual Working Memory. Poster session presented at the 21st Conference of the European Society for Cognitive Psychology (ESCoP) in Tenerife, Spain.

Kandemir, G., **Karabay, A.,** & Akyürek, E. G. (2019, February). Decoding Visual Working Memory Before and After Mental Operations. Poster Session presented at the BCN Winter Meeting in Twente, Netherlands.

**Karabay, A.,** & Akyürek, E. G. (2018, May). Target Color and Contrast Influences Temporal Attention in Rapid Serial Visual Presentation. Poster Session presented at the International meeting of the Psychonomics Society in Amsterdam, Netherlands.

**Karabay, A.,** & Akyürek, E. G. (2017, September). Target Color and Contrast Influences Temporal Attention in Rapid Serial Visual Presentation. Poster Session presented at the 20th Conference of the European Society for Cognitive Psychology (ESCoP) in Potsdam, Germany.

**Karabay, A.,** & Akyürek, E. G. (2017, August). Target Color and Contrast Influences Temporal Attention in Rapid Serial Visual Presentation. Poster Session presented at the 40th European Conference on Visual Perception (ECVP) in Berlin, Germany.

**Karabay, A.,** & Akyürek, E. G. (2017, April). Kanizsa Effects on Temporal Integration and Attention. Poster session presented at the Heymans Symposium in Groningen, Netherlands.

**Karabay, A.,** & Kurylo, D.D. (2015, May). Perceptual Grouping by Orientation Coherence. Poster Session presented at the Science Day, Brooklyn College in NY, the US.

Er, N., **Karabay, A.**, Kaynar, G., Uysal, M. M., & Boyraz, F. U. (2012, April). Autobiography Of Aging Mind: Age-Related Effects On Voluntary And Involuntary Autobiographical Memories. Poster Session presented at the IX International Cognitive Neuroscience Meeting in Istanbul, Turkey.

**SUPERVISED MASTER THESES**

Bapoğlu, O. A. (2021). *Pinging individual features of multi-feature objects: an EEG study.* University of Groningen, NL.

**RELEVANT SKILLS**

***Technical skills:*** JASP (*advanced*); SPSS (*advanced*); R (*advanced*); Matlab (*moderate/advanced*); Python (*advanced*); OpenSesame (*advanced*); E-prime (*advanced*); MS Office (*advanced*); Memory modeling; EEG; Multivariate Pattern Analysis

***Language Skills:*** Turkish (*native*); English (*professional*); Dutch (*beginner*)

**GRANTS & FELLOWSHIPS**

* *YLSY Scholarship* from Ministry of National Education, Turkey (2011-2019). Complete coverage of tuition, stipend, and partial coverage of research costs for masters and Ph.D. degrees (200.000$).

**ORGANIZED WORKSHOP & SEMINARS**

* *Introduction to Python/OpenSesame*–Leibniz Institute for Psychology, DE, 4-7/08/2020*:* Worked as a tutor for the workshop by dr. Sebastiaan Mathôt. Topics: Introduction to Python/Numerical Python, Introduction to OpenSesame, Advanced numerical Python, Building online experiment, Collecting data, Analyzing with Python.
* *Mindwise Science Communication Workshop*– University of Groningen, NL, (I) 04-05/2019*;* (II) 01/12/2020:“Writing in a conversational style / Academic writing vs. blogging”.

**ORGANIZATIONAL EXPERIENCE**

* *Psychology Ph.D. Council Member*, University of Groningen, NL, 2016-2019.
* *Mind-wise Science Communication Ph.D. Committee*, University of Groningen, NL, 2018-2021.

**SELECTED CERTIFICATES**

* *Teaching and Mentoring in Academic Learning Communities,* Teaching Unit Psychology of University of Groningen, Groningen, NL, 2018.
* *Multivariate pattern analyses (MVPA) in EEG/MEG,* Experimenteel-Psychologische Onderzoekschool, Amsterdam, NL, 2018.
* *Autumn school: Attention,* Experimenteel-Psychologische Onderzoekschool, Amsterdam, NL, 2018.