Can Oluk

École normale supérieure, PSL University
Laboratoire des systèmes perceptifs,
Département d'études cognitives,
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Date of Birth: June 27,1993
Citizenship: Turkey
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Education

Ph.D. Psychology, The University of Texas at Austin 2016 - 2022
Supervisor: Prof. Wilson S. Geisler

B.A. Psychology, Minor in Philosophy, Bilkent University 2011 - 2016

Research Experience

Postdoctoral Researcher, Laboratoire des systèmes perceptifs, PSL University 2023 - Present
Confidence in Motion Perception
Supervisor: Prof. Pascal Mamassian

Graduate Research Assistant, Center for Perceptual Systems, U.T. Austin 2016 - 2022
Slant Perception, Detection under Uncertainty
Supervisor: Prof. Wilson S. Geisler

Undergraduate Thesis Student, UMRAM, Bilkent University 2015 - 2016
Multiplexed echo planar imaging (fMRI) Methods
Supervisor: Dr. Huseyin Boyaci

Undergraduate Research Assistant, UMRAM, Bilkent University 2013 - 2016
Audiovisual Associations, Rapid Motion Aftereffects
Supervisor: Dr. Hulusi Kafaligonul

Publications

Working Papers

Oluk, C., and Geisler, W. S. *Detection under Simultaneous Target Scale and Target Orientation Uncertainty*

Oluk, C., Szinte, M., Masson, G. S. and Mamassian, P. *Confidence in Global Motion Direction Discrimination*

Journal Articles

Oluk, C., and Geisler, W. S. (2023). Effects of Target-Amplitude and Background-Contrast Uncertainty Predicted by a Normalized Template-Matching Observer. *Journal of Vision* (accepted).

Oluk, C., Bonnen, K., Burge, J., Cormack, L. K., and Geisler, W. S. (2022). Stereo slant discrimination of planar 3D surfaces: Frontoparallel versus planar matching. *Journal of Vision*, 22(5), 6-6.

Oluk, C., Pavan, A., and Kafaligonul, H. (2016). Rapid motion adaptation reveals the temporal dynamics of spatiotemporal correlation between ON and OFF pathways. *Scientific reports*, 6(1), 1-10.

Kafaligonul, H. and **Oluk, C.** (2015). Audiovisual associations alter the perception of low-level visual motion. *Frontiers in Integrative Neuroscience*, 9, 26.

Conference Abstracts

Oluk, C. and Geisler, W. S. (2021). The Energy-Normalized MAX Observer Approximates the Ideal Observer Under High-levels of Simultaneous Orientation and Scale Uncertainty in White Noise. *Vision Science Society Meeting*, Florida, US.

Oluk, C. and Geisler, W. S. (2020). Ideal Observers for the estimation of disparity in random-pixel stereograms. *Vision Science Society Meeting*, Florida, US.

Oluk, C., and Geisler, W. S. (2019). Effects of Target Amplitude Uncertainty, Background Contrast Uncertainty, and Prior Probability Are Predicted by the Normalized Template-Matching Observer. *Vision Science Society Meeting*, Florida, US.

Oluk, C., Bonnen, K., Burge, J., Cormack, L., and Geisler, W. (2018). Stereo Slant Estimation of Planar Surfaces: Standard Cross-Correlation vs. Planar-Correlation. *Vision Science Society Meeting*, Florida, US.

Kafaligonul, H. and **Oluk, C.** (2014). Audiovisual associations alter the perception of low-level visual motion. *Annual Meeting of the Society for Neuroscience*, Washington, D.C., US.

Kafaligonul, H. and **Oluk, C.** (2014). Altering perception of low-level visual motion by audiovisual associations. *37th European Conference on Visual Perception*, Belgrade, Serbia.

Grants

TUBITAK 2209/A,"Associative Learning and Motion Induced Plasticity" 2015 - 2016
Supervisor: Dr. Hulusi Kafaligonul

Honours and Awards

Lloyd A. Jeffress Memorial Fellowship 2016, 2019

Bilkent University Comprehensive Scholarship 2011 - 2016
Full tuition waiver and stipend

Teaching Experience

Teaching Assistant, U.T. Austin Spring 2019
PSY 323 - Perception

Teaching Assistant, Bilkent University Fall 2013
CS 121 - Introduction to Computer Tools

Service & Memberships

Ad Hoc Reviewer – Journal of Vision

Vision Science Society 2017-2021

Miscellaneous

Languages: English (advanced), Turkish (native)

Programming Skills: Matlab, Python, LaTeX, SPSS, Stata

Last updated: October 2, 2023