Can Oluk

The University of Texas at Austin
Centre for Perceptual Systems
Department of Psychology
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Date of Birth: June 27,1993
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Education

Ph.D. Psychology, The University of Texas at Austin 2016 - 2022
Thesis: Visual Target Detection Under Multiple Dimensions of Uncertainty
Supervisor: Prof. Wilson S. Geisler

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

Research Experience

Graduate Research Assistant, Center for Perceptual Systems, U.T. Austin 2016 - Present
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

Teaching Experience

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

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

Publications

Working Papers

Oluk, C., and Geisler, W. S. Detection under Simultaneous Target Amplitude and Background Contrast Uncertainty

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

Journal Articles

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

Miscellaneous

Languages: English (advanced), Turkish (native)

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

Professional Memberships

Vision Science Society 2017 - Present

Last updated: July 1, 2022