Can Oluk

Brain Mind Institute, École Polytechnique
Fédérale de Lausanne (EPFL)
Lausanne, Switzerland

Date of Birth: June 27,1993
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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, Brain and Mind Instute, EPFL   2024 -
    Time course of (conscious) visual processing
    Supervisor: Prof. Michael Herzog

Postdoctoral Researcher, Laboratoire des systèmes perceptifs, ENS   2023 - 2024
    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. *Target Identification Under High Levels of Amplitude, Size, Orientation and Background 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*, 23(12):8.

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., Szinte, M., Masson, G. S., Mamassian, P. (2024). Confidence responses in global motion discrimination task are well predicted by visual reliability. *Vision Science Society Meeting*, Florida, US.

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.

Invited Talks

"Confidence in Global Motion Direction Discrimination" 2024
Centre IRM - INT, Institut de Neurosciences de la Timone, Aix-Marseille Université

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-Present

Miscellaneous

Languages: English (advanced), Turkish (native)

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

Last updated: August 10, 2024