Can Oluk

June 27,1993 Date of Birth: Brain Mind Institute, École Polytechnique Citizenship: Turkev Fédérale de Lausanne (EPFL) Email: cnoluk@gmail.com Lausanne, Switzerland Homepage: https://canoluk.github.io 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 2024 -Postdoctoral Researcher, Brain and Mind Instute, EPFL 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

Publications

Working Papers

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

2013 - 2016

Undergraduate Research Assistant, UMRAM, Bilkent University

Audiovisual Associations, Rapid Motion Aftereffects

Supervisor: Dr. Hulusi Kafaligonul

Journal Articles

Oluk, C., and Geisler, W. S. (2025). Target identification under high levels of amplitude, size, orientation and background uncertainty. *Journal of Vision*, 25(2):3.

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.

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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" Centre IRM - INT, Institut de Neurosciences de la Timone, Aix-Marseille Université

Grants

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

2015 - 2016

2024

Honours and Awards

Lloyd A. Jeffress Memorial Fellowship

2016, 2019

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

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Teaching Experience

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

Teaching Assistant, Bilkent University
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: February 6, 2025