ENES ALTUN

🎓 EDUCATION

2020

Akdeniz University Department of Psychology
B.A. in Psychology   📍 Antalya, Turkey

2022

Akdeniz University Department of Psychology
M.A. in Psychology   📍 Antalya, Turkey

Thesis: *Visual Processing Of Different Race And Great Ape Faces In the Context Of Spatial Frequency: An ERP Study*
https://www.tandfonline.com/doi/full/10.1080/13506285.2024.2415721

💻 RESEARCH EXPERIENCE

2017 | 2021

Undergraduate Research Assistant

Akdeniz University Cognitive Neuroscience Lab   📍 Antalya, Turkey
- Conducted EEG data collection, wrangling, analysis, and machine learning modeling
- Developed electronic devices like GSR sensors and robotic fingers using Arduino and Python

2021 | 2023

Graduate Research Assistant

Akdeniz University Cognitive Neuroscience Lab   📍 Antalya, Turkey
- Specialized in image processing, computer vision, and machine learning

</> INDUSTRY EXPERIENCE

Jul 2023 | Jun 2024

Rust Developer
Sobel.io   📍 Stockholm, Sweden

- Developed desktop application with Tauri using Rust and TypeScript
- Adapted vision and audio models for real-time analytics and deployed ONNX models
- Created Rust-based data processing pipelines and enhanced GPU compatibility

Jun 2024 | Present

Rust Developer
Empatik AI   📍 Stockholm, Sweden

- Identified and converted PyTorch-based deep learning models into ONNX format and optimized them in Rust for production deployment.
- Implemented and optimized GStreamer for high-performance audio/video analysis, leveraging GPU acceleration to maximize efficiency and scalability.
- Designed and implemented advanced smoothing and visualization techniques for complex time series data to enhance interpretability and insights.
- Developed robust data fusion solutions for multimodal datasets using Apache Arrow, enabling efficient and scalable analytics pipelines.

Web: altunenes.github.io

CONTACT INFO

✉ enesaltun2@gmail.com

 github.com/altunenes

 kaggle.com/enesaltun

 personal site

 ORCID

 Google Scholar

in LinkedIn

SKILLS

Machine Learning & Deep Learning:

Model opt/Deployment: ONNX, torch

Multimodal Data Processing

Data Visualization & Analysis:

Time Series Visualization & Analysis

Parallel Data Processing: Apache Arrow, Data Fusion

Audio/Video Processing:

Media Frameworks: GStreamer (Rust-powered Low-level Development)

Software: E-Prime, BrainVision

EEG: Designing experiments, signal processing: MNE/EEGLAB/BrainVis

Programming Languages:

Python (Advanced)

R (Advanced)

JavaScript/TypeScript (Advanced)

Rust (Advanced)

GLSL/WGSL (Advanced)

📄 SELECTED PUBLICATIONS AND POSTERS

Altun, E., Er, M. N., & Gülbetekin, E. (2024). The early visual processing of faces in a basic classification task: An ERP study of spatial frequency, other-race and other species effect. *Visual Cognition*, 1–24. https://doi.org/10.1080/13506285.2024.2415721

Evrim Gülbetekin, **Enes Altun,** Muhammed Nurullah Er, Arda Fidancı, Pakize Keskin & Dilara Steenken (2021). Effects of right or left face stimulation on self and other perception in enfacement illusion, *Social Neuroscience*, 16:2, 189-205, DOI: 10.1080/17470919.2021.1886983

Evrim Gülbetekin, Seda Bayraktar, Deniz Kantar Gül, Ece Varlık Özsoy, Muhammed Nurullah Er, **Enes Altun** & Arda Fidanci (2023). Does Tactile Stimulation of the Face Affect the Processing of Other Faces? Neural and Behavioural Effects of Facial Touch, *Social Neuroscience*, DOI: 10.1080/17470919.2023.2245126

Gülbetekin, E., Fidancı, A., **Altun, E.,** Er, M. N., & Gürcan, E. (2023). Effects of mask use and other-race on face perception, emotion recognition, and social distancing during the COVID-19 pandemic. *Asian Journal of Social Psychology*, 00, 1–16. https://doi.org/10.1111/ajsp.12570

How do We Process Faces from Different Ethnic Groups and Species?
Gülbetekin E., Fidancı A., **Altun E**. *Society for Neuroscience Annual Meeting 2023*, Washington

How do We Perceive Masked Faces during COVID 19 Pandemic
GÜLBETEKİN E., FİDANCI A., **ALTUN E**., ER M. N., KAPLAN E. E. *37th Annual Meeting of the International Society for Psychophysics Fechner Day 2021*, 19 October 2021

Gülbetekin E., **Altun E.**, Er M.N., "Does own species matter? Holistic Face Perception for Great Apes", *International Behavioral Neuroscience Society (IBNS) Online Poster Sessions*, Texas, USA, 3-7 August 2020, pp.1-1

Gülbetekin E., Bayraktar S., Varlik Özsoy E., Kantar Gök D., **Altun E.**, Er N., et al.,"Effects of Tactile Stimulation on Face Perception", *Fechner Day 2019*, Antalya, Turkey, 30 October - 2 November 2019, pp.30-30

ALTUN E., Er N., Gülbetekin E. "Does genetic similarity matter? Face recognition performance for primates", *Fechner Day 2019: 35th Annual Meeting of the International Society for Psychophysics*, Antalya, Turkey, 30 October - 2 November 2019, pp.91-92

Er N., **ALTUN E.**, Fidanci A., et al., "EFFECT OF STIMULATED FACE SIDE ON MULTISENSORY PERCEPTION", *Fechner Day 2019: 35th Annual Meeting of the International Society for Psychophysics*, Antalya, Turkey, 30 October – 2 November 2019, pp.79-79

Evrim Gülbetekin, Seda Bayraktar, Deniz Kantar, **Enes Altun,** Nurullah Er, Arda Fidancı "Yüz Algısında Görsel-Dokunsal Uyarımın Etkileri" *18. Ulusal Sinirbilim Kongresi*, Ankara, Turkey, 6-9 Kasım 2020, PP5-045.

Altun, E. (2023). altunenes/scramblery: 1.2.5 (1.2.5). *Zenodo*. https://doi.org/10.5281/zenodo .10028991
https://github.com/altunenes/scramblery/tree/main

Muhammed Nurullah Er, **Enes Altun,** Evrim Gülbetekin "Türler Arası Benzerlik Fark Yaratır Mı? Büyük Maymun Yüzlerine Yönelik Bütünsel Yüz İşleme" *18. Ulusal Sinirbilim Kongresi*, Ankara, Turkey, 6-9 Kasım 2020, PP5-007.

Gülbetekin E., **ALTUN E.**, Er N., Fidanci A., Keskin P., İlhan Y., et al., "Ben mi, Diğeri mi?: Çok Duyumlu Uyarımın Yüz Algısı Üzerindeki Etkisi", *20. Ulusal Psikoloji Kongresi*, Ankara, Turkey, 15-17 Kasım 2018, ss.1-1

🔖 MANUSCRIPTS IN PROGRESS

Altun Enes; Er M.N; Gülbetekin E. **(Under Review)** Exploring the Distinctiveness of Early Visual Processing in Human and Illusory Faces: An ERP Study of Spatial Frequency Effects. Available at SSRN: https://ssrn.com/abstract=4341900 or http://dx.doi.org/10.2139/ssrn.4341900

Alagöz F., Kürme T., **Altun E**., Er M.N., Gülbetekin E. **(in-prep)** How do I perceive your face buddy? Investigation of facial movement of AU101 in dog faces in the context of sadness, happiness, and baby schema in the human brain: An ERP Study.

Er, M.N, **Altun E,** Gülbetekin E. **(in-prep)** The Role of Dorsal and Ventral Visual Pathways on Holistic Processing of Individual Facial Parts: An ERP and Spatial Frequency Study

ONGOING ACADEMIC PROJECTS

Development of the Somatosensory Stimulation Hypothesis to Explain Face and Hand Interaction:
Akdeniz University, 2024.