





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](https://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](https://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

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-  [Google Scholar](#)
-  [in LinkedIn](#)

SKILLS

Machine Learning & Deep Learning:

Model Optimization: ONNX, TensorRT
Deployment Frameworks: PyTorch, ONNX Runtime
Multimodal Data Processing

Data Visualization & Analysis:

Time Series Visualization & Analysis
Parallel Data Processing: Apache Arrow, Data Fusion

Audio/Video Processing:

Media Frameworks: GStreamer (Advanced Optimization)

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>

Evrım 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

Evrım Gülbetekin, Seda Bayraktar, Deniz Kantar Gül, Ece Varlık Özsoy, Muhammed Nurullah Er, **Enes Altun** & Arda Fidancı (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., & Gürçan, 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., FIDANCI 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., Varlık 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.**, Fidancı 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

Evrım 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**, Evrım 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., Fidancı 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.