

## CANSU MALAK

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### EDUCATION

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#### Korea University, Korea

September 2023 – 2025, Faculty of Engineering, Brain and Cognitive Engineering – 4.25/4.5

- PI: Christian Wallraven
- Thesis: *Decoding Faces: Fine-Grained Ethnicity Categorization of East Asian Faces by Humans and Machines*

#### Yeditepe University, Turkey

September 2018 – 2022, Faculty of Arts and Sciences, Psychology (in English) - 3.94/4

- PI: Dr. Funda Yildirim
- Undergraduate Research Project: *Masking emotions: How does perceived gaze direction affect emotion recognition in masked faces? – An eye-tracking study*

September 2016 – 2021, Faculty of Arts and Sciences, Sociology (in English) - 3.91/4

### HONORS, AWARDS, AND FELLOWSHIPS

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- 2022-2025. Global Korean Scholarship. National Institute for International Education (NIIED), Government of the Republic of Korea. \$75.000.
- 2022-2023. Undergraduate Project Grant - 2209-A TUBITAK (Scientific and Technological Research Council of Turkiye) [\*Effects of perceived gaze direction and face mask on emotion recognition – An eye-tracking study\*](#). 4000 TL.
- 2022. High Honors Student - Faculty of Arts and Sciences, Psychology
- 2021. High Honors Student - Faculty of Arts and Sciences, Sociology

### PUBLICATIONS

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**Malak, C.,** Wallraven, C. (**submitted**, preprint available). The importance of external features for identifying ethnicity: Testing Korean, Japanese, and Chinese faces in a Korean cultural background. <https://doi.org/10.31234/osf.io/gxky7>

**Malak, C.,** Coskun, I., Gungor, Y., Ozilgen, S., & Yildirim, F. (preprint available). Cross-sensory Effects on Taste Perception using Extended Reality. [https://doi.org/10.31234/osf.io/6ha5e\\_v1](https://doi.org/10.31234/osf.io/6ha5e_v1)

**Malak, C.,** Wallraven, C. (preprint available). Attractive Strangers Look Korean: In-group Biases in How Koreans Evaluate and Categorize Korean, Japanese, and Chinese Faces. [https://doi.org/10.31234/osf.io/pq7ny\\_v1](https://doi.org/10.31234/osf.io/pq7ny_v1)

**Malak, C., & Yildirim, F.** (2025). Pupillary responses to masked and gaze-averted faces. *Frontiers in Psychology*, 16, 1586186. [doi: 10.3389/fpsyg.2025.1586186](https://doi.org/10.3389/fpsyg.2025.1586186)

Baykar, B. G., Kenan, I. D., & **Malak, C.** (2021). [Gender gap in Turkish Debate Programs](#). KA.DER (Kadın Adayları Destekleme Derneği).

## CONFERENCE PRECEDINGS / PRESENTATIONS

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**Malak, C.,** Wallraven, C. (2025). Humans versus machines: Distinguishing Korean, Chinese, and Japanese faces via internal and external features. *Vision Sciences Society 2025*.  
<https://doi.org/10.1167/jov.25.9.2027>

**Malak, C.,** Wallraven, C. (2025). 민족성을 범주화하는 데 있어 외부 특징의 중요성: 한국인은 한국, 일본, 중국 얼굴을 구별할 수 있을까? (The importance of external features for categorizing ethnicity: Can Koreans identify Korean, Japanese, and Chinese faces?). 한국인지및생물심리학회 (Korean Cognitive and Biological Psychology Society) 2025. [presented in Korean]

**Malak, C.,** Yildirim, F. (2022) Effects of perceived gaze direction and face mask on emotion recognition – An eye-tracking study. *Vision Sciences Society, virtual Undergraduate Just-in-Time Sessions*.  
<https://www.visionsciences.org/presentation/?id=4526>

Yorgancıgil, E., Urgen B.A., **Malak C.** & Yildirim, F. (2021) Audio-visual components and cross-generation characteristics of uncanny valley. *43rd European Conference on Visual Perception*. Perception. 50:104 [doi: 10.1177/03010066211059887](https://doi.org/10.1177/03010066211059887)

## RESEARCH EXPERIENCE

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### Research Assistant, Cognitive Systems Lab

September 2023 – present, Korea University, Seoul

Principal Investigator: Christian Wallraven

- **Project 1:** The importance of external features for identifying ethnicity: Testing Korean, Japanese, and Chinese faces in a Korean cultural background. (completed)
- **Project 2:** Comparative analysis of human and machine learning performance in fine-grained ethnicity-based face recognition (completed)
- **Project 3:** Perceptions of attractiveness and trustworthiness in East Asian faces: How Koreans distinguish Korean, Japanese, and Chinese ethnicities (completed)

### Undergraduate Research Assistant, Computational Neuroscience Visual Perception Lab

September 2020 – 2022, Yeditepe University, Istanbul

Principal Investigator: Dr. Funda Yildirim

- **Project 1:** [Effects of perceived gaze direction and face mask on face perception](#)
- **Project 2:** [Audiovisual side of uncanny valley](#)

### Research Assistant

September 2020 – 2022, Yeditepe University, Istanbul

Principal Investigator: Dr. Pinar Ugurlar

- **Project 1:** Background effect on online lecture
  - **Project 2:** Self-other overlap and economic decision-making game
- Responsibilities: Designing experiment, data collection

### Project Assistant

*September 2020 –2021, Yeditepe University, Istanbul*

Principal Investigator: Dr. Baris Gencer Baykan

- **Project:** [Project for monitoring gender equality in the media](#)

Responsibilities: Data collection, and analysis.

### **Summer Research Assistant**

*June 2019- August 2019, Koc University* Principal Investigator:

Ayşegül Özsoy Tunali

- **Project:** A closer look at the relationship between brand equity and marketing standardization

Responsibilities: 55 semi-structured interviews with employees at Ford.

### **SKILLS**

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SPSS, Psychopy3, Prism, MATLAB, Python, Eye-tracking, fMRI (spm), R, EEG

### **LANGUAGES**

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- **Turkish**-Native
- **English**-Advanced
- **Korean**-Advanced (TOPIK 6)

### **CERTIFICATES**

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- Electrophysical and Psychophysical Implementations with Arduino -Yeditepe University
- EEG use in cognitive neuroscience research: Basic and advanced analysis techniques - Bilkent University
- Eye-tracking Methods - Bilkent University

### **MEDIA**

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[Interview](#) with Cansu Malak&Funda Yıldırım on “Effects of perceived gaze direction and face mask on emotion recognition" project

### **VOLUNTEER EXPERIENCE**

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#### **WORKAWAY-KOREA**

*August 2019 - October 2019*

ESL teacher

#### **AIESEC Global Volunteering-Ukraine**

*2017-2018*

Supporting social and linguistic skills of the marginalized communities.

