



# Oğul Can Yurdakul

Short CV

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## Languages

**Natural:** Turkish (Native Speaker), English (Advanced), French (Intermediate)

**Formal:** MATLAB, Python, Assembly (ARM Thumb2), ANSI Common LISP, WebPPL

## Research Interests

- Statistical Signal Processing
- Computational Neuroscience
- Cognitive Science

## Education

|                   |   |                  |
|-------------------|---|------------------|
| 10/2021 – Present | <b>M.S. in Electrical and Electronics Engineering</b><br><i>Specialization Area: Signal Processing   CGPA: 4.00 / 4.00</i>      | <u>METU EEE</u>  |
| 10/2017 – Present | <b>B.S. in Mathematics (Double Major)</b><br><i>Expected Graduation: June 2022   CGPA: 3.86 / 4.00</i>                          | <u>METU MATH</u> |
| 10/2016 – 02/2021 | <b>B.S. in Electrical and Electronics Engineering</b><br><i>Specialization Area: Biomedical Engineering   CGPA: 3.76 / 4.00</i> | <u>METU EEE</u>  |

## Publications

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|------|---|
| 2020 | 1. <b>Yurdakul, O. C.</b> , Subathra, M. & George, S. T. Detection of Parkinson's Disease from gait using Neighborhood Representation Local Binary Patterns. <i>Biomedical Signal Processing and Control</i> <b>62</b> , 102070. doi:10.1016/j.bspc.2020.102070 (2020). |
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## Work Experience

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|-------------------|---|--|
| 02/2022 – Present | <b>Research Assistant</b>   | <u>METU EEE Staff Profile</u>                              |
| 09/2019 – Present | <b>Lab Member</b><br><i>Under the supervision of Dr. Emre Özkan, I study statistical signal processing, with emphasis on particle filters and Chernoff fusion.</i>                | <u>METU EEE Sensor Fusion Laboratory</u>                   |
| 07/2019 – 09/2019 | <b>Summer Intern in Research</b><br><i>I proposed a new feature extraction method based on Local Binary Patterns, and showed that it was useful in a classification task [1].</i> | <u>Karunya Institute of Technology and Sciences, India</u> |

## Leadership and Teaching Experience

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|-----------------------------------|---|--|
| 07/2021                           | <b>Teaching Assistant for Tutorials</b><br><i>I was responsible for a pod (6 students) in NMA CN online summer school for 3 weeks. I helped them go over tutorials about fundamental topics on computational neuroscience and develop a project, answered their questions about the coding exercises and the underlying theory.</i> | <u>NMA CN Summer School</u><br><u>Curriculum</u> |
| 02 – 07/2020<br>&<br>10 – 12/2018 | <b>Part-time Student Assistant</b><br><i>I was the student assistant for the course MA153 Calculus for Mathematics Students I (Fall 2018) and MA154 Calculus for Mathematics Students II (Spring 2020). I graded weekly assignments and provided feedback to students.</i>  | <u>METU MATH</u>                                 |