



Oğul Can Yurdakul – Curriculum Vitae

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ogulyurdakul.github.io

Languages

Natural: Turkish (Native Speaker), English (Advanced), French (Intermediate)
Formal: MATLAB & Python (Experienced), Assembly ARM Thumb2, ANSI Common LISP, WebPPL, C

Research Interests

- Statistical Signal Processing
- Computational Neuroscience
- Cognitive Science

Education

10/2021 – Present	M.Sc. in Electrical and Electronics Engineering <u>METU EEE</u> CGPA: 4.00 / 4.00 Supervisor: Dr Emre Özkan Specialization Area: Signal processing
10/2017 – 07/2022	B.Sc. in Mathematics (Double Major) <u>METU MATH</u> CGPA: 3.87 / 4.00 Electives in metamathematics, computational topology, analysis
10/2016 – 02/2021	B.Sc. in Electrical and Electronics Engineering <u>METU EEE</u> CGPA: 3.76 / 4.00 Specialization in biomedical engineering, electives in signal processing

Publications

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| 2024 | 1. Yurdakul, O. C. , Çetinkaya, M., Çelebi, E. & Özkan, E. A Rao-Blackwellized Particle Filter for Superelliptical Extended Target Tracking in 2024 27th International Conference on Information Fusion (FUSION) (2024), 1–8. Accepted for publication. |
| 2020 | 2. Yurdakul, O. C. , 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> 62 , 102070 (2020). |

Work & Research Experience

09/2019 – Present	Researcher <u>METU EEE Sensor Fusion Laboratory</u> Under the supervision of Dr Emre Özkan, I study statistical signal processing, emphasising information fusion and extended target tracking.
07/2019 – 09/2019	Summer Intern in Research <u>Karunya Institute of Technology and Sciences, India</u> I proposed a new feature extraction method based on Local Binary Patterns, and showed that it was useful in a classification task with a shallow neural network [2].
07/2018 – 08/2018	Summer Intern <u>IBM Turkey, Istanbul Office</u> I observed the process of data center migration on the field and helped the team with various tasks.

Teaching Experience

02/2022 – Present	Teaching Assistant <u>METU EEE Staff Profile</u> Courses worked in: <u>EE230 Probability and Random Variables</u> <u>EE306 Signals & Systems II</u> <u>EE361 Electromechanical Energy Conversion I</u> , <u>EE415 Intro. to Medical Imaging</u> and <u>EE416 Biomedical Signals, Instrumentation and Measurements</u> .
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07/2023	Lead Teaching Assistant <i>In addition to the regular TA responsibilities, I was also tasked with leading seven other regular TAs. I assisted their training and provided guidance about managing their pods along with other administrative responsibilities, such as dealing with TA absences.</i>	<u>NMA CN Summer School</u>
07/2021	Teaching Assistant <i>I was the regular TA of a pod of students in NMA CN online summer school for 3 weeks. I helped them go over tutorials about fundamental topics in computational neuroscience and develop a project, and answered their questions about the coding exercises and the underlying theory.</i>	<u>NMA CN Summer School</u>
02 – 07/2020 & 10 – 12/2018	Part-time Student Assistant <i>I was the student assistant for the courses 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>

Organizations & Projects

05/2022 — Present	Volunteer <i></i>	<u>Neuromatch</u>
06/2019 — 08/2021	Coordinator <i>I was responsible for the acquisition and organization of work offers from around Ankara for IAESTE LC METU, trained newcomers on company relations, and hosted the incoming interns.</i>	<u>IAESTE LC METU</u>
07/2020	Interactive Student <i>I participated in a 3-week long, intense summer school as an interactive student, which entailed preparing a project.</i>	<u>NMA CN Summer School</u>
09/2019 – 12/2019	Workshop on Mathematics with High School Students <i>I conducted weekly workshops/lectures with Ankara Private Tevfik Fikret High School sophomore students on various topics, including countable and uncountable infinities, elementary graph theory and Eulerian paths, basic linear algebra and Fourier series representation of periodic signals.</i>	<u>Details</u>
05/2017 — 05/2018	Team Leader & Director of Communications <i>I booked speakers and worked with them on their speeches and was responsible for the overall operations of the event. I also designed and managed the event website on Wix.</i>	<u>TEDxMETUAnkara 2017 "Grand Illusions"</u>
2015	Leadership School Graduate <i>I acquired soft skills such as teamwork, leadership and public speaking. I had the chance to deliver an 11-week class on leadership with two more volunteers to secondary school students.</i>	<u>Young Guru Academy</u>

Certificates & Other Skills

Certificates:

TOEFL iBT 112/120 (10/2021-10/2023),
French DELF B2 76/100 (06/2015 – Present),
Various certificates on programming (More details on [LinkedIn](#) and on [Acclaim](#))


Simulation & Design: LT Spice, Quartus II, Verilog, Fusion 360

Utilities: \LaTeX (Experienced), GitHub (Intermediate), Microsoft Office applications (Experienced)

Hobbies & Other Interests

You can see ogulyurdakul.github.io for more details.

Hobbies:

Photography ( [ogulyurdakul](#)),
Aikido (1st Kyu),
Music (Singing, Piano)

Other Interests:

Philosophy of Mind,
Translation (English to Turkish),
Science Communication