OĞUL CAN YURDAKUL

Student of Engineering and Mathematics

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ORCID: 0000-0002-9426-4933

I am an enthusiastic learner of engineering and mathematics interested in philosophy and music, aspiring to become a neuroscientist through Ph.D. and postdoctoral studies.

EDUCATION

Bachelor of Mathematics (Double Major)

Middle East Technical University — *Department Website*

10/2017 – Present Ankara, TURKEY CGPA : 3.84 / 4.00

Expected Graduation: June 2022

Bachelor of Electrical and Electronics Engineering

Middle East Technical University — *Department Website*

10/2016 – 02/2021 Ankara, TURKEY CGPA : 3.76 / 4.00

Specialization Area: Biomedical Engineering

High School Graduate

Ankara Private Tevfik Fikret High School — *Website*

09/2011 – 06/2016 Ankara, TURKEY Score : 94.19 / 100.00

EXPERIENCE

Teaching Assistant (Tutorials)

Neuromatch Academy Computational Neuroscience Summer School — *Website*

5-23/07/2021 Online

I was responsible for a pod in NMA-CN online summer school. 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. *Curriculum*

Summer Intern in Research

Karunya Institute of Technology and Sciences, Department of Instrumentation Engineering — *Website*

07/2019 – 09/2019 Coimbatore, INDIA

Yurdakul, O. C., Subathra, M., & George, S. T. (2020). Detection of Parkinson's Disease from gait using Neighborhood Representation Local Binary Patterns. *Biomedical Signal Processing and Control*, *62*, 102070. doi:10.1016/j.bspc.2020.102070 *Link to Paper*

Part-time Student Assistant

Middle East Technical University, Department of Mathematics — *Website*

10-12/2018, 02-06/2020 Ankara, TURKEY

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); and I graded weekly assignments and provided feedback to students.

ACADEMIC INTERESTS

- Computational Neuroscience
- Statistical Signal Processing
- Cognitive Science

OTHER INTERESTS

- Aikido (3rd Kyu)
- Music (Singing, Piano, Ney)
- Philosophy (of Mind & of Mathematics)
- Science Communication

CERTIFICATES

- **TOEFL iBT (04/2015 – 04/2017)**
  Total Score: 108/120
- **DELF B2 (06/2015 – Present)**
  Total Score: 76.00/100.00
- **Various certifications on programming**
  More details on *LinkedIn* and on *Acclaim*

LANGUAGES

Turkish — ●●●●●● *Native Speaker*

English — ●●●●●○ *Advanced 1*

French — ●●●○○○ *Independent 2*

PROGRAMMING

MATLAB — ●●● *Experienced*

Python — ●●● *Experienced*

Assembly (ARM Thumb2) — ●●○ *Intermediate*

ANSI Common LISP — ●●○ *Intermediate*

ORGANIZATIONS & PROJECTS

METU EEE Sensor Fusion Research Group (09/2019 – Present)

Under the supervision of Assoc. Prof. Dr. Emre Özkan, I study statistical signal processing, with emphasis on particle filters. I am currently working on the problem of multiplying distributions approximated by a particle filter.

IAESTE LC METU, Coordinator (06/2019 – Present)

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.

Neuromatch Academy 2020 Interactive Student *NMA Website*

I participated in a 3-week long, intense summer school as an interactive student, which entailed preparing a project. In the project, we used linear models from scikit-learn Python library and worked on preprocessed fMRI data.

Team Leader and Director of Communications (05/2017 – 05/2018)

TEDxMETUAnkara 2017 "Grand Illusions" *TED Page of the Event*
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.

VOLUNTARY WORK

Workshop on Mathematics with High School Students

I conducted weekly workshops/lectures with Ankara Private Tevfik Fikret High School sophomore students on various topics, which so far include countable and uncountable infinities, graph theory and Eulerian paths, basic linear algebra and Fourier series representation of periodic signals.

Young Guru Academy Graduate

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.

SIMULATION & DESIGN

LT Spice ●●● *Experienced*

Quartus II ●●● *Experienced*

Verilog ●●● *Experienced*

Fusion 360 ●○○ *Beginner*

APPLICATIONS & OTHER

LaTeX ●●● *Experienced*

Microsoft Office ●●● *Experienced*

HTML ●○○ *Beginner*