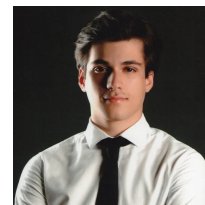


Karahan Yilmazer

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EDUCATION

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| 10.2022 – present
Munich, Germany | Technical University of Munich, <i>Elite Master of Science in Neuroengineering</i> <ul style="list-style-type: none">• Tentative overall grade: 1.2• Student representative |
| 10.2022 – present
Munich, Germany | Ludwig Maximilian University of Munich, <i>Elite Master of Science in Neuro-Cognitive Psychology</i> <ul style="list-style-type: none">• Tentative overall grade: 1.4 |
| 04.2022 – present
Munich, Germany | Technical University of Munich, <i>Master of Science in Electrical and Computer Engineering</i> <ul style="list-style-type: none">• Tentative overall grade: 1.6 |
| 10.2018 – 02.2022
Munich, Germany | Technical University of Munich, <i>Bachelor of Science in Electrical and Computer Engineering</i> <ul style="list-style-type: none">• Thesis topic: Eye Blink Detection and Motor Imagery Using A Wireless EEG: An Investigation, Grade: 1.3• Overall grade: 2.2 |
| 04.2021
Virtual | BCI & Neurotechnology Spring School, <i>g.tec medical engineering GmbH</i> <ul style="list-style-type: none">• Attended lectures about various topics from brain research• Attended the BR4IN.IO Hackathon<ul style="list-style-type: none">- Developed a competitive multiplayer video game using EEG-based BCI using motor imagery and Python- Rewarded with 3rd place for programming projects |
| 08.2020 – 12.2020
Virtual | Norwegian University of Science and Technology, <i>Exchange Semester</i> <ul style="list-style-type: none">• Introduction to Neuroscience, Grade: A<ul style="list-style-type: none">- Presentation topic: Emergent Properties of Neuronal Networks |
| 02.2013 – 05.2018
Istanbul, Turkey | German High School of Istanbul, <i>Abitur</i> <ul style="list-style-type: none">• Abitur grade: 1.4• Abitur subjects: Mathematics, Biology, German, English |

PROFESSIONAL EXPERIENCE

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| 10.2021 – present
Munich, Germany | Research Assistant, <i>Institute for Cognitive Systems, Technical University of Munich</i> <ul style="list-style-type: none">• In charge of the EEG systems• Actively working on:<ul style="list-style-type: none">- Designing and testing home appliance systems for a spinal cord injury patient- Motor imagery recordings and analysis using EEG- Online eye blink detection and external device control using EEG |
| 04.2021 – present
Munich, Germany | Teaching Assistant, <i>Technical University of Munich</i> <ul style="list-style-type: none">• Python Workshop (WS 20/21 - SS 23)• Neuroprosthetics (WS 22/23, SS 23)• Biosignal Processing and Modeling (SS 23)• Human-Centered Neuroengineering: Cybathlon (SS 22)• Signal Processing: Dynamic System Modeling (SS 22)• Machine Intelligence and Society (in Python) (SS 22)• Physics for Electrical Engineers (SS 21)• C++ workshop (WS 20/21) |

PROJECTS

08.2023 – present Berlin, Germany	Internship, Prof. Surjo R. Soekadar - Clinical Neurotechnology Lab <ul style="list-style-type: none">• Classification of rock-paper-scissors gestures recorded using optically pumped magnetometers (OPM)• Review of brain-computer interfaces for neurorehabilitation of stroke patients
03.2022 – 04.2022 Munich, Germany	Internship, Prof. Simon Jacob - Translational NeuroTechnology Laboratory, Technical University of Munich / Prof. Moritz Grosse-Wentrup - Research Group Neuroinformatics, University of Vienna <ul style="list-style-type: none">• Set up the hard- and software for the Brain-AI-Interfaces project involving an aphasia patient that will be implanted with a microelectrode array• Worked on an automatic spike sorting pipeline
05.2021 – 07.2021 Munich, Germany	Internship, Prof. Gordon Cheng, Nicolas Berberich - Institute for Cognitive Systems, Technical University of Munich <ul style="list-style-type: none">• Developed a systematic way to assess the signal quality of EEG recordings• Made rest state and mental load recordings with different EEG systems
10.2020 Istanbul, Turkey	Internship, Prof. Ata Akin - Acibadem University <ul style="list-style-type: none">• Researched fundamental topics in brain research• Statistical analysis of Stroop test results
10.2019 Vienna, Austria	Voluntary Internship, Prof. Moritz Grosse-Wentrup - Research Group Neuroinformatics, University of Vienna <ul style="list-style-type: none">• Set up research-grade wet EEG systems
07.2016 Istanbul, Turkey	Internship, Prof. Reyhan Küçükkaya - Istanbul Florence Nightingale Hospital <ul style="list-style-type: none">• Observed the following surgeries/operations/medical examinations: Open heart, Scoliosis, Prostate, Lengthening, Hematology, Ophthalmology

PUBLICATIONS

2023	Investigating the relationship between cue immersion and the strength of motor imagery during hand and wrist movements, IEEE
2023	Grip Force Dynamics during Exoskeleton-Assisted and Virtual Grasping, ICORR

LANGUAGES

Turkish Native	English C1, TOEFL iBT Score: 113	German C1, German Abitur	Norwegian A2, TUM Language Course
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SKILLS

Programming Languages <ul style="list-style-type: none">• Python• MATLAB• C++• C	Software <ul style="list-style-type: none">• Machine Learning• Data Analysis• Blender• Fusion 360• Qt Creator	EEG <ul style="list-style-type: none">• Set up and record with dry and wet electrodes• Setting up computer-driven experiments• Data analysis (MNE & EEGLAB)	Microcontroller set-ups <ul style="list-style-type: none">• ESP32• Raspberry Pi• Arduino
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INTERESTS

TEDxTUM Curation Team Member | **President of the International Committee of Olydorf**
Head of "Science Orientation Week" Team | **Head graphic and logo designer in school magazine "Çizgi"**
Electric Guitar (London College of Music Examinations Grade 4) | **SSI Open Water Diver** | **Advanced Skier**
Aikido (Brown belt, Yeşilyurt Sports Club) | **Brazilian Jiu-Jitsu** (White belt with two stripes, Pound for Pound Munich)