

ÇAĞIL BENİBOL

Physicist & Musician

Technical University of
Munich, MSc. Student

Focus: Quantum Computing
& Astrophysics

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München/Bayern, Germany

CONTACT

About Me:

A curious Physicist doing his M.Sc. in Germany's leading universities and graduated from Turkey's one of the most outstanding universities with an honors degree. Have strong theoretical background and problem-solving skills. Knows statistical methods and data analysis in Astrophysics and Theoretical Physics. Knows Quantum Computing methods and algorithms. An effective team worker. Experienced in organizing many conferences and science festivals. A professional musician. Plays the keyboard and piano in several bands.

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<https://github.com/Tihulu>

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Experiences

2022

Graduation Project, Quantum Computing & Astrophysics

Estimating Hamiltonian in a Schwarzschild (Black Hole) Metric with Quantum Computers Using VQE Algorithm

MIDDLE EAST TECHNICAL UNIVERSITY, Department of Physics / ANKARA / TURKEY

Quantum Computing, QBronze and QSilver

QTurkey / Practical Quantum Computing for Scientists course was given in METU fall 2022

Final project/ RSA Decryption Algorithm with Shor's Algorithm

Backend Programmer, From Excel Menu to HTML Website generator program.

Basically, HTML generating Python Script
tihulu.github.io/arafta

2021

Web and Graphic Designer, QR Menu and Designing of the QR Code Plate
tihulu.github.io/arafta

Web Designer, Portfolio web site for Unseverdesign
tihulu.github.io/unseverdesign

Solo project, 8-Song Album "Everyone is Confused" and a 4-Song Ep
"The_Trrektor.exe"

Ka-Fa 1500 / SPOTIFY, APPLE MUSIC, YOUTUBE and more

2020

Data Analysis on Astrophysics, DS9, Fermitools, fermipy, CIAO, CALDB, XSPEC
Data Analysis on Astrophysics course was given in METU spring 2020
Final project/ Gamma & X-ray observations of RCW-86 with Fermi - LAT and Chandra
Keyboardist, 2-Song Ep “Beni Anlat” and a single “Unknown”
MEDITERRA / SPOTIFY, APPLE MUSIC, YOUTUBE and more

2019

Participant, Feza Gursey Institute Hakki Ogelman Summer School On
“Astrophysical Modeling”
BOSPHORUS UNIVERSITY / ISTANBUL / TURKEY
Guide, Sivrihisar Science Fest Organized by TUBITAK (4007 Project)
ESKISEHIR / TURKEY

2018

Guide, Altindag Science Fest Organized by TUBITAK (4007 Project)
ANKARA / TURKEY
Organization, 1st Interscholastic Physics Students’ Summit (IPSS)
ISTANBUL TECHNICAL UNIVERSITY / ISTANBUL / TURKEY
Guide & photographer, 12th Aykut Kence Evolution Conference
MIDDLE EAST TECHNICAL UNIVERSITY / ANKARA / TURKEY

2017

Organization, 1st Dilhan Eryurt Astronomy Day
MIDDLE EAST TECHNICAL UNIVERSITY / ANKARA / TURKEY
Guide & photographer, 11th Aykut Kence Evolution Conference
MIDDLE EAST TECHNICAL UNIVERSITY / ANKARA / TURKEY

Education

2022 – Present

M.Sc. Student Quantum Science & Technology, Technical University of Munich (TUM) and
Ludwig Maximilian University of Munich (LMU)
Munich/GERMANY

2016 – 2022

B.Sc. Physics, Middle East Technical University (METU)
ANKARA/TURKEY
CGPA: 3.00 /4.00 – Honors Degree with 317 ECTS

2012 – 2016

High School Degree, Özel Ege Lisesi
IZMIR/TURKEY
CGPA: 84.76/100

Languages

TURKISH, NATIVE

ENGLISH, ADVANCED

GERMAN, A2

Computer Skills

Office: Microsoft Office, Libre Office, Google Forms

Computer Languages: Python, C
Anaconda Spyder/Jupyter, Spyder

MATLAB & Octave

Quantum Computing: Qiskit, Qiskit Aqua, QutIP, Cirq

Astrophysics: SAO Image DS9, Fermitools, fermipy, CIAO, CALDB, XSPEC

Music Production: Logic Pro X, Cubase, Reaper

Web: HTML, CSS

Others: Photoshop & GIMP, Familiar with Linux & Mac OS environments, Able to use
Raspberry Pi & Arduino

For Further information visit github.com/tihulu

References

For Quantum Computing: Dr. OSMAN BARIŞ MALCIOĞLU, mbaris@metu.edu.tr

For Computational Physics: Prof.Dr. ALİ MURAT GÜLER, amg@metu.edu.tr

For Quantum Information: Prof.Dr. SADİ TURGUT, sturgut@metu.edu.tr