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| --- | --- | --- | --- |
| Çağıl  Benİbol |  |  | Physicist & Musician |
|  |  | Technical University of Munich, MSc. Student |
|  |  | Focus: Quantum Computing & Astrophysics |
| Max Liebermann Str 8, Stw/app 1, 80937 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. |  |  | +49 157 532 840 05 |
|  | GitHub Logomark https://github.com/Tihulu |
|  | Email icon cagil.benibol@gmail.com |
| cagilbenibol.com |

## 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](mailto:mbaris@metu.edu.tr)

**For Computational Physics:** Prof.Dr. ALİ MURAT GÜLER, [amg@metu.edu.tr](mailto:amg@metu.edu.tr)

**For Quantum Information:** Prof.Dr. SADİ TURGUT, [sturgut@metu.edu.tr](mailto:sturgut@metu.edu.tr)