



TOGAN T. YUSUF

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EDUCATION

Bachelor's Degree Electrical and Electronics Engineering (English) Ankara University	June 2016 – June 2022 Ankara, Turkey
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WORK EXPERIENCE

STAR Research Scholar TÜBİTAK - Scientific and Technological Research Council of Turkey	January 2022 – Current Ankara, Turkey/Remote
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- Research project on Deep Learning techniques for RF fingerprinting

Research Intern CERN openlab	June – September 2021 Geneva, Switzerland/Remote
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- Completed trainings and co-developed ML applications with python
- Research project on generative models for Higgs boson process simulation
- Final report on Quantum GANs for Higgs boson ttH process data generation

Project Leader Robotics and Science Society - Ankara University	April 2017 – September 2020 Ankara, Turkey
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- Led a team of 8+ students
- Organized Python lessons and study groups for beginners
- Worked on the development and design of image processing models

Electronics Technician Elektrolojik Energy Technologies Ltd. Co.	June – September 2019 Ankara, Turkey
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- Worked on electronics devices and their safety testing applications

COURSES

Deep Learning Coursera - DeepLearning.AI	September – November 2021
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Global Summer School on Quantum Machine Learning Qiskit IBM	12 – 23 July 2021
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Machine Learning Coursera - Stanford University	December 2020 – February 2021
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Foundations of Theoretical and Computational Science Summer School CHPC and NITheP	1 – 26 February 2021
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Introduction to Quantum Computing IBM - The Coding School	October 2020 – May 2021
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The Feynman Lectures on Physics Vol. I, II, and III Ozgur Cildiroglu - Ankara University	Spring Terms 2017 - 2019
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TECHNICAL SKILLS

Languages: Python * MATLAB * GNU Octave * Mathematica * Assembly * C/C++

Software: PennyLane * Cirq * Qiskit * TensorFlow * Q#/QDK * AutoCAD

Hardware: Raspberry Pi * Arduino * RTL-SDR

RESEARCH

Modified Layerwise Learning for Data Re-uploading Classifier in HEP Classification IEEE - DOI: 10.1109/QCE52317.2021.00024	November 2021
Quantum GANs for Higgs boson ttH process Data Generation CERN openlab - DOI: 10.5281/zenodo.5577410	October 2021
An Efficient Optimization Method: Natural Gradient Descent Ankara University Department of EEE	January 2021
Estimation of Motion Parameters for Falling Objects Ankara University Department of EEE	November 2020

CHALLENGES AND HACKATHONS

CERN Webfest: Self-supervised learning for wearable sensors data classification Bulding Act.App - AI powered app for Healthcare	August 2021
QHACK 2021: The Quantum Machine Learning Hackathon - Xanadu Second place, winner of the grand CERN internship	February 2021
The IBM Quantum Challenge Foundational badge	November 2020
KTHACK2020: Quantum Technologies Hackathon The First place prize in Academic/Scientific studies category	October 2020

WORKSHOPS AND CONFERENCES

Q# Trainer Training Program Microsoft	January – February 2021
Azure Quantum Developer Workshop 1 & 2 Microsoft	23 January & 2 February 2021
Global Quantum Programming Workshops QWorld	16 – 28 November 2020
Machine Learning and Transformer Structures in DeepNLP Datacamp'20 – Boğaziçi University	04 – 11 November 2020
MATLAB Onramp Training MathWorks	24 January 2019

TEACHING EXPERIENCE

Trainer - Q# Quantum computing workshop Microsoft - QTurkey	20 – 23 May 2021 Remote
Trainer - Q# Quantum computing workshop Microsoft- QTurkey	15 – 18 March 2021 Remote
Python Lessons Ankara University - Robotics and science society	Fall Term 2018 – 2019 Ankara, Turkey
Arduino/Raspberry Pi Lessons Ankara University - Robotics and science society	Fall Term 2017 – 2018 Ankara, Turkey

LANGUAGES SKILLS

English: Reading C1 * Listening C1 * Speaking C1 * Writing C1
German: Reading B1 * Listening B1 * Speaking B1 * Writing B1

ACTIVE MEMBERSHIPS

APS * IEEE Quantum