



# TOGAN TLIMAKHOFF

DOB: 23/Jun/98 \*  togan.me \*  \*  \*  \* 

I'm a Master's in Physics student interested in quantum science and tech.

## EDUCATION

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<b>M.Sc.   Physics</b> Université de Sherbrooke	January 2023 – Current Sherbrooke, Canada
<b>B.Sc.   Electrical and Electronics Engineering</b> Ankara University	February 2017 – July 2022 Ankara, Turkey

## WORK EXPERIENCE

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<b>Master's student</b> QSciTech <ul style="list-style-type: none"><li>CREATE training program</li></ul>	October 2022 – Current Sherbrooke, Canada
<b>STAR Research Scholar</b> TÜBİTAK - Scientific and Technological Research Council <ul style="list-style-type: none"><li>Research project on Deep Learning techniques for RF fingerprinting</li></ul>	January 2022 – Current Ankara, Turkey
<b>Research Intern</b> CERN openlab <ul style="list-style-type: none"><li>Completed trainings and co-developed ML applications with python</li><li>Research project on generative models for Higgs boson process simulation</li><li><u>Final report on Quantum GANs for Higgs boson ttH process data generation</u></li></ul>	June – September 2021 Geneva, Switzerland/Remote

## COURSES

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

## TECHNICAL SKILLS

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**Languages:** Python \* MATLAB \* GNU Octave \* C/C++ \* Mathematica \* Assembly  
**Software:** TensorFlow \* PyTorch \* Qiskit \* PennyLane \* Q#/QDK \* AutoCAD  
**Hardware:** Raspberry Pi \* Arduino

## RESEARCH AND PUBLICATIONS

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

## CHALLENGES AND HACKATHONS

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

## TRAINING AND WORKSHOPS

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- Q# Trainer Training Program** January – February 2021  
Microsoft
- Azure Quantum Developer Workshop 1 & 2** 23 January & 2 February 2021  
Microsoft
- Global Quantum Programming Workshops** 16 – 28 November 2020  
QWorld
- MATLAB Onramp Training** 24 January 2019  
MathWorks

## TEACHING EXPERIENCE

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

## LANGUAGES SKILLS

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- English:** Reading C1 \* Listening C1 \* Speaking C1 \* Writing C1
- German:** Reading B1 \* Listening B1 \* Speaking B1 \* Writing B1
- French:** Reading A2 \* Listening A2 \* Speaking A2 \* Writing A2

## ACTIVE MEMBERSHIPS

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APS \* IEEE