Cem Nurlu

CONTACT

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EDUCATION

TU DELFT

MSc Applied Physics, - Delft, Netherlands 2023-Present

Expected Graduation: June 2025

• Following Track: Physics for Quantum Devices and Quantum Computing

BOGAZICI UNIVERSITY

BSC PHYSICS — ISTANBUL, TURKEY 2018 - 2023

GPA: 3.16

- QTurkey Quantum Student Branch Lead and Co-Founder(2020-2023)
- Bogazici University Dance Club -(2020-2021) — Board Member & Accountant (2021-2022) - President (2022-2023) – Chairman of the Supervisory Board

BAHCESEHIR COLLEGE SCIENCE HIGHSCHOOL

GAZIANTEP, TURKEY 2014-2018 GPA: 99,87/100 | Valedictorian

SKILLS

Python HTML & CSS & JS Q# and Qiskit Frameworks Machine Learning & DL Quantum Computing Generative Models Data Analysis Computer Vision, NLP, LLMs LaTeX SOL **Digital Electronics**

LANGUAGES

Turkish - Native English - C2 (TOEFL:114) Turkish Sign Language - Proficient French - Limited

PUBLICATIONS

[1] U. Birkan, Ö. Salehi, V. Olejar, C. Nurlu, and A. Yakaryılmaz. Implementing quantum finite automata algorithms on noisy devices. In International Conference on Computational Science, pages 3–16. Springer, 2021.

EXPERIENCES AND RESEARCH

QINTERN 2020 | RESEARCH INTERN

Jun 2020 - Mar 2021

Studied and researched Quantum Finite Automata's (MCQFA) with Abuzer Yakaryilmaz and Özlem Salehi and gave a presentation on the research. Continued and published paper on the project after the internship.

- Developed new and improved circuit-based implementations for QFA algorithms recognizing the Mod_p problem using the Qiskit framework on noisy devices.
- Awarded 1st place for the best results and 2nd place for the best presentation.
- Poster accepted to QIP Conference 2020.
- The paper was accepted to ICCS 2021 for publication and presentation and nominated for best paper.

MICROSOFT, GLOBAL SHAPERS ANKARA HUB, QTURKEY

Q # TRAIN THE TRAINER

Jan 2020 – June 2020

In a project partnership of Microsoft, Global Shapers Ankara and QTurkey, trained by the Microsoft Quantum Team to lead Q# Workshops on their behalf.

- Structured, prepared, organized and gave multiple Q# workshops.
- The project won the Be the Change Award by Microsoft.
- Currently continuing a project with Mariia Mykhailova to develop workbooks for the Quantum Katas.

QWORLD / QTURKEY | ORGANIZER / LECTURER

June 2019 – Currenty

- Organized and led multiple quantum programming and IBM Qiskit workshops, domestic & worldwide, mentored and gave lectures to 1000+ attendees.
- Organized a Quantum Computing Game Jam (Qoyun), mentored attendees.
- Gave and moderated talks on various topics from quantum computing.

EARTH-ML | RESEARCHER

Feb 2020 – Jan 2022 | Boğaziçi University

Worked with Prof. Dr. Arkadas Ozakin to detect and understand earthquakes with higher accuracy and sensitivity using machine learning methods.

- Worked on time series analysis and featurization of noisy data.
- Handled, created and worked on large volume datasets.
- Gave talks and trained the new researchers on machine learning methods for the project.
- Had hands-on experience with large transformers and Seg2Seg models.

ECURA AI, ANGKAS | DATA SCIENTIST INTERN

Nov 2022 - Jan 2024 Singapore - Remote

Worked on extraction, analysis, and modeling of large time series data to understand data relations, optimize resources and make business decisions for large-scale companies.

WORKSHOPS & ACCOMPLISHMENTS

2019 1st place 2020 Inzva & KUIS AI Deep Generative Models 2019 Inzva & KUIS AL

KTHACK2020 Quantum Programming Hackaton Computer Vision for Autonomous Driving 2018 BOUN Compec Machine Learning Workshop