



# Andreas Burger

MSc. Quantum Computing

## CONTACT

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## EDUCATION

Master Thesis 01/2022 - 12/2022  
**National University Singapore**  
'Open System Dynamics of the Spin-Boson Model on Quantum Computers' (Python)  
arxiv.org/abs/2210.15922  
Prof. U. Scholwoeck, L.C. Kwek, D. Poletti

Master 11/2020 - 12/2022  
**University of Munich (LMU)**  
Physics (95%, 4.0 GPA)  
Focus on Machine Learning and Optimization

Bachelor 10/2017 - 07/2020  
**TU Wien**  
Physics (85%, 3.7 GPA)  
'Analysis of Adjacent Vortices in a Simulated Superconductor' (C++)  
Prof. F Sauerzopf

High School 09/2012 - 06/2016  
**Sir Karl Popper Schule**  
For highly gifted students  
'Bacteriophages and the Comparison with Antibiotics'

## SKILLS

Python TensorFlow (ML) SQL C++

TypeScript Linux Git MS Office

## EXPERIENCE

Consultant 10/2021 - 12/2021  
**EFS Consulting** Vienna, Austria  
Plan the IT Architecture for a Battery Cell Factory for an Automotive OEM  
Technical Research and Engineer Interviews  
Liliane Simon

Research Assistant 08/2021 - 09/2021  
**Iran University of Science and Technology** Teheran, Iran  
Detecting Rail Defects to 90% Accuracy using Computer Vision  
Python, OpenCV  
Prof. Morteza Bagheri

Research Assistant 05/2021 - 12/2022  
**University of Munich (LMU)** Munich, Germany  
Speeding up the SVD of high-dimensional Tensors by 50% using U(1) Symmetries  
C++, Paper in Progress  
Prof. U. Schollwoeck, Dr. S. Paeckel

Head of Sponsorship 10/2018 - 09/2020  
**TU Wien Racing** Vienna, Austria  
Sourcing and Allocating €600k p.a. in Sponsorship  
Board Member of the Association, co-leading 80 people

Social Service 01/2017 - 10/2017  
**Red Cross** Vienna, Austria  
Preparing and Testing 400 Blood Donations per Day in the Laboratory

## ENGAGEMENT


UN Youth and Student Association 2019 - 2020

European Youth Parliament 2015 - 2018

School tutoring for refugees 2017

## LANGUAGES

German 

English 

French 