

SCHOOL OF COMPUTATION, INFORMATION AND TECHNOLOGY — INFORMATICS

TECHNISCHE UNIVERSITÄT MÜNCHEN

Master's Thesis in Informatics

Influence of Noise in Quantum Machine Learning

Erick Ruben Quintanar Salas





SCHOOL OF COMPUTATION, INFORMATION AND TECHNOLOGY — INFORMATICS

TECHNISCHE UNIVERSITÄT MÜNCHEN

Master's Thesis in Informatics

Influence of Noise in Quantum Machine Learning

Einfluss von Rauschen in Quantenmaschinen Lernen

Author: Erick Ruben Quintanar Salas Supervisor: Prof. Dr. Claudia Eckert

Advisor: M.Sc. Pascal Debus / M.Sc. Kilian Tscharke

Submission Date: Submission date

I confirm that this master's thesis is my own work a and material used.	nd I have documented all sources
Munich, Submission date	Erick Ruben Quintanar Salas



Abstract

Contents

A	Acknowledgments							
A	bstract	iv						
1	Introduction 1.1 Section	1 1						
A	bbreviations	3						
Li	ist of Figures	4						
Li	ist of Tables	5						
Bi	ibliography	6						

1 Introduction

1.1 Section

Citation test [Lam94].

Acronyms must be added in main.tex and are referenced using macros. The first occurrence is automatically replaced with the long version of the acronym, while all subsequent usages use the abbreviation.

E.g. \ac{TUM} , \ac{TUM} \Rightarrow Technical University of Munich (TUM), TUM For more details, see the documentation of the acronym package¹.

1.1.1 Subsection

See Table 1.1, Figure 1.1, Figure 1.2, Figure 1.3.

Table 1.1: An example for a simple table.

A	В	C	D
1	2	1	2
2	3	2	3



Figure 1.1: An example for a simple drawing.

¹https://ctan.org/pkg/acronym



Figure 1.2: An example for a simple plot.

```
SELECT * FROM tbl WHERE tbl.str = "str"
```

Figure 1.3: An example for a source code listing.

Abbreviations

TUM Technical University of Munich

List of Figures

1.1	Example drawing
1.2	Example plot
1.3	Example listing

List of Tables

	. 1 . 1 1																		_
1.1	Example table																		1

Bibliography

[Lam94] L. Lamport. LaTeX: A Documentation Preparation System User's Guide and Reference Manual. Addison-Wesley Professional, 1994.