



**FACULTY
OF MATHEMATICS
AND PHYSICS**
Charles University

MASTER THESIS

Petr Houška

**Deep-learning architectures for
analysing population neural data**

Department of Software and Computer Science Education

Supervisor of the master thesis: Mgr. Ján Antolík, Ph.D.

Study programme: Computer Science

Study branch: Artificial Intelligence

Prague 2021

I declare that I carried out this master thesis independently, and only with the cited sources, literature and other professional sources. It has not been used to obtain another or the same degree.

I understand that my work relates to the rights and obligations under the Act No. 121/2000 Sb., the Copyright Act, as amended, in particular the fact that the Charles University has the right to conclude a license agreement on the use of this work as a school work pursuant to Section 60 subsection 1 of the Copyright Act.

In date
Author's signature

Dedication.

Title: Deep-learning architectures for analysing population neural data

Author: Petr Houška

Department: Department of Software and Computer Science Education

Supervisor: Mgr. Ján Antolík, Ph.D., Department of Software and Computer Science Education

Abstract: Abstract.

Keywords: key words

Contents

Introduction	2
1 Title of the first chapter	3
1.1 Title of the first subchapter of the first chapter	3
1.2 Title of the second subchapter of the first chapter	3
2 Title of the second chapter	4
2.1 Title of the first subchapter of the second chapter	4
2.2 Title of the second subchapter of the second chapter	4
Conclusion	5
Bibliography	6
List of Figures	7
List of Tables	8
List of Abbreviations	9
A Attachments	10
A.1 First Attachment	10

Introduction

1. Title of the first chapter

An example citation: Anděl [2007]

1.1 Title of the first subchapter of the first chapter

1.2 Title of the second subchapter of the first chapter

2. Title of the second chapter

2.1 Title of the first subchapter of the second chapter

2.2 Title of the second subchapter of the second chapter

Conclusion

Bibliography

J. Anděl. *Základy matematické statistiky*. Druhé opravené vydání. Matfyzpress, Praha, 2007. ISBN 80-7378-001-1.

List of Figures

List of Tables

List of Abbreviations

A. Attachments

A.1 First Attachment