



Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

# **Designing meaningful metrics to evaluate generative graph neural networks on biological datasets.**

Master Thesis

Philip Jean Hartout

July 10, 2022

Advisors: Prof. Dr. Karsten Michael Borgwardt, Tim Kucera  
Department of Biosystems Science and Engineering, ETH Zürich



---

### **Abstract**

This example thesis briefly shows the main features of our thesis style, and how to use it for your purposes.



---

# Contents

---

<b>Contents</b>	<b>iii</b>
<b>1 Introduction</b>	<b>1</b>
1.1 Example Section . . . . .	1
1.1.1 Example Subsection . . . . .	1
<b>2 Methods</b>	<b>3</b>
2.1 Example Section . . . . .	3
2.1.1 Example Subsection . . . . .	3
<b>3 Results</b>	<b>5</b>
3.1 Example Section . . . . .	5
3.1.1 Example Subsection . . . . .	5
<b>4 Discussion</b>	<b>7</b>
4.1 Example Section . . . . .	7
4.1.1 Example Subsection . . . . .	7
<b>5 Conclusion</b>	<b>9</b>
5.1 Example Section . . . . .	9
5.1.1 Example Subsection . . . . .	9
<b>A Dummy Appendix</b>	<b>11</b>
<b>Bibliography</b>	<b>13</b>



## Chapter 1

---

# Introduction

---

Dummy text.

### 1.1 Example Section

Dummy text.

#### 1.1.1 Example Subsection

Dummy text.

##### Example Subsubsection

Dummy text.

**Example Paragraph** Dummy text.

*Example Subparagraph* Dummy text.





## Chapter 2

---

# Methods

---

Dummy text.

### 2.1 Example Section

Dummy text.

#### 2.1.1 Example Subsection

Dummy text.

##### Example Subsubsection

Dummy text.

**Example Paragraph** Dummy text.

*Example Subparagraph* Dummy text.



---

## Results

---

Dummy text.

### 3.1 Example Section

Dummy text.

#### 3.1.1 Example Subsection

Dummy text.

##### Example Subsubsection

Dummy text.

**Example Paragraph** Dummy text.

*Example Subparagraph* Dummy text.



## Chapter 4

---

# Discussion

---

Dummy text.

### 4.1 Example Section

Dummy text.

#### 4.1.1 Example Subsection

Dummy text.

##### Example Subsubsection

Dummy text.

**Example Paragraph** Dummy text.

*Example Subparagraph* Dummy text.



---

## Conclusion

---

Dummy text.

### 5.1 Example Section

Dummy text.

#### 5.1.1 Example Subsection

Dummy text.

##### Example Subsubsection

Dummy text.

**Example Paragraph** Dummy text.

*Example Subparagraph* Dummy text.





## Appendix A

---

# Dummy Appendix

---

You can defer lengthy calculations that would otherwise only interrupt the flow of your thesis to an appendix.



---

## **Bibliography**

---



Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

## Declaration of originality

The signed declaration of originality is a component of every semester paper, Bachelor's thesis, Master's thesis and any other degree paper undertaken during the course of studies, including the respective electronic versions.

Lecturers may also require a declaration of originality for other written papers compiled for their courses.

---

I hereby confirm that I am the sole author of the written work here enclosed and that I have compiled it in my own words. Parts excepted are corrections of form and content by the supervisor.

**Title of work** (in block letters):

**Authored by** (in block letters):

*For papers written by groups the names of all authors are required.*

**Name(s):**

**First name(s):**


With my signature I confirm that

- I have committed none of the forms of plagiarism described in the '[Citation etiquette](#)' information sheet.
- I have documented all methods, data and processes truthfully.
- I have not manipulated any data.
- I have mentioned all persons who were significant facilitators of the work.

I am aware that the work may be screened electronically for plagiarism.

**Place, date**

**Signature(s)**


*For papers written by groups the names of all authors are required. Their signatures collectively guarantee the entire content of the written paper.*