



HOKKAIDO UNIVERSITY

Your Dissertation Title

A DISSERTATION SUBMITTED  
BY  
YOUR NAME  
TO  
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IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY  
IN THE DIVISION OF  
ENVIRONMENTAL SCIENCE

HOKKAIDO UNIVERSITY  
SAPPORO, HOKKAIDO  
MARCH 2025

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## Your Dissertation Title

### ABSTRACT

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# Acknowledgments

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# List of Terms and Acronyms

## GLOSSARY

**Protein Language Model** is a language model that is pretrained on large-scale unlabeled protein sequences. It captures the statistical properties of protein sequences and can be fine-tuned on downstream tasks. <sup>1</sup>

# 1

## General Introduction

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Protein language models are some sort of counterparts of large language models (LLMs) in protein science.



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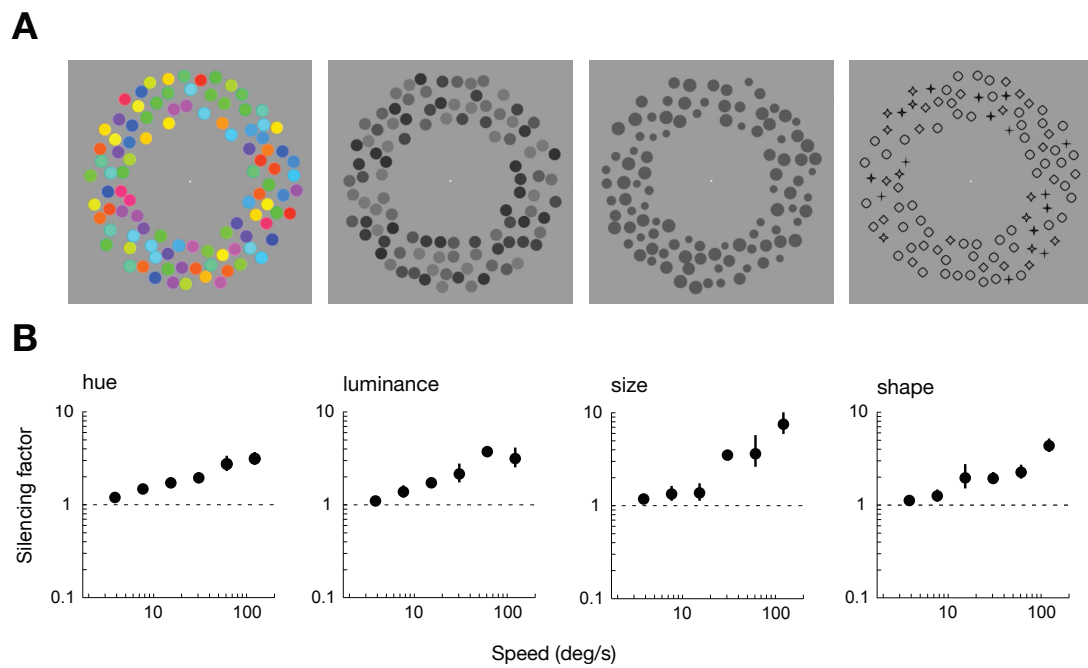
# 2

## The title of chapter one

THERE'S SOMETHING TO BE SAID Fermat's Little Theorem states that for any integer  $a$  and any prime number  $p$ , the following congruence relation holds:

$$a^p \equiv a \pmod{p} \tag{2.1}$$

An example of a figure is shown in Figure 2.1.



An example of a table is shown in Table 2.1.

Table 2.1: Table 1

Col1	Col2	Col3	Col4
1	2	3	4
5	6	7	8
9	10	11	12

*This is some random quote to start off the chapter.*

Firstname lastname

# 3

## The title of chapter two

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# 4

## The title of chapter three

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# 5

## Conclusion

This is a conclusion.

THIS THESIS WAS TYPESET using L<sup>A</sup>T<sub>E</sub>X, originally developed by Leslie Lamport and based on Donald Knuth's T<sub>E</sub>X. The body text is set in 11 point Egenolff-Berner Garamond, a revival of Claude Garamont's humanist typeface. A template that can be used to format a PhD dissertation with this look & feel has been released under the permissive AGPL license, and can be found online at [github.com/suchow/Dissertate](https://github.com/suchow/Dissertate) or from its lead author, Jordan Suchow, at [suchow@post.harvard.edu](mailto:suchow@post.harvard.edu). The template used in this dissertation is created based on Harvard Template, which was previously used in the [dissertation of Hongjie Zhai](#), who is a former student of Hokkaido University. The logo of Hokkaido University is used under the [University Logo Guideline](#).