

Title of my thesis

Some subtitle for my thesis

Your Name

March 22, 2025

Table of contents

1	Abstract	1
2	Introduction	3
3	Methods	5
3.1	Subsection (with text from notebook)	5
3.2	Subsection (with embedded table from notebook)	5
3.3	Subsection (with math)	6
3.4	Subsection (with code)	7
4	Results	9
4.1	Section (with embedded figures from notebooks)	9
4.2	Section (with table embedded from notebook)	10
5	Bon mot	13
6	References	15

1 Abstract

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

2 Introduction

Fringilla sem fusce vivamus pellentesque in commodo penatibus bibendum. Vestibulum aptent volutpat vehicula eu rutrum lobortis consequat. Euismod lectus ultrices; duis duis ipsum rhoncus. Ipsum vitae primis potenti suscipit per nascetur rutrum lobortis. Scelerisque pulvinar duis interdum sapien elementum consequat vitae orci. Suspendisse tempor nisl accumsan dolor potenti euismod sed.

2.0.1 Subsection (with references)

Skov et al. reported strong selection on the human X chromosome (2023). *Pellentesque id tellus at erat luctus fringilla. Suspendisse potenti. In fringilla gravida ornare. Aenean id lectus pulvinar, sagittis felis nec, rutrum risus. Nam vel neque eu arcu blandit fringilla et in quam. Aliquam luctus est sit amet vestibulum eleifend.* Lineages in small population have smaller coalescence times, (see Nielsen and Slatkin 2016, chap. 1). *Nunc ac dignissim magna. Vestibulum vitae egestas elit. Proin feugiat leo quis ante condimentum, eu ornare mauris feugiat. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris cursus laoreet ex, ignissim bibendum est posuere iaculis. Suspendisse et maximus elit.* The neanderthal genome has been sequenced (Prüfer et al. 2012). *Nunc ac dignissim magna. Vestibulum vitae egestas elit. Proin feugiat leo quis ante condimentum, eu ornare mauris feugiat.* The X chromosome is subject to recurrent sweeps (Nam et al. 2015; Dutheil et al. 2015). *Fusce et ellentesque ligula. Pellentesque id tellus at erat luctus fringilla. Suspendisse potenti. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.* Following Munch et al. (2014), **dignissim magna. Vestibulum vitae egestas elit. Proin feugiat leo quis ante condimentum, eu ornare mauris feugiat.*

2.0.2 Subsubsection (with illustrations)

In fringilla gravida ornare. Aenean id lectus pulvinar, sagittis felis nec, rutrum risus. Nam vel neque eu arcu blandit fringilla et in quam. Aliquam luctus est sit amet vestibulum eleifend. You can see an elephant in Figure 2.1. *Phasellus elementum sagittis molestie. Proin tempor lorem arcu, at condimentum purus volutpat eu. Fusce et ellentesque ligula. Pellentesque id tellus at erat luctus fringilla. Suspendisse potenti.*

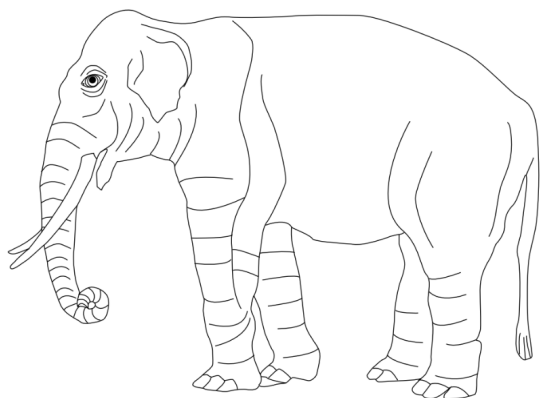
Integer vulputate habitant quis vitae tristique. Aenean id lectus pulvinar, sagittis felis nec, rutrum risus. Nam vel neque eu arcu blandit fringilla et in quam. Aliquam luctus est sit amet vestibulum eleifend. Phasellus elementum sagittis molestie. Proin tempor lorem arcu, at condimentum purus

2 Introduction

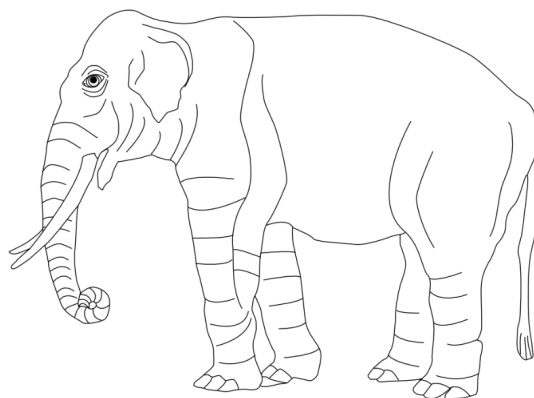


Figure 2.1: Some caption for an illustration showing an elephant

volutpat eu. Fusce et ellentesque ligula. There are two elephants in Figure 2.2. *Pellentesque id tellus at erat luctus fringilla. Suspendisse potenti.* You can see an elephant in Figure 2.1.



(a)



(b)

Figure 2.2: Some caption for an illustration with two elephants.

3 Methods

Nam senectus ultricies class nulla primis mattis. Primis feugiat nunc nec in a bibendum elit; vestibulum molestie. Luctus vehicula euismod fermentum semper facilisis. Integer vulputate habitant quis vitae tristique. Fringilla sem fusce vivamus pellentesque in commodo penatibus bibendum. Vestibulum aptent volutpat vehicula eu rutrum lobortis consequat. Scelerisque pulvinar duis interdum sapien elementum consequat vitae orci. Suspendisse tempor nisl accumsan dolor potenti euismod sed.

3.1 Subsection (with text from notebook)

The 24 subjects from workplaces in Denmark were interviewed blah blah blah blah blah
blah blah blah blah blah blah blah blah blah blah blah blah blah blah blah blah
blah blah blah blah blah blah blah blah blah blah blah blah blah blah

Euismod lectus ultrices; duis duis ipsum rhoncus. Ipsum vitae primis potenti suscipit per nascetur rutrum lobortis. Suspendisse et maximus elit. In fringilla gravida ornare. Aenean id lectus pulvinar, sagittis felis nec, rutrum risus. Nam vel neque eu arcu blandit fringilla et in quam. Aliquam luctus est sit amet vestibulum eleifend. Phasellus elementum sagittis molestie. Proin tempor lorem arcu, at condimentum purus volutpat eu.

3.2 Subsection (with embedded table from notebook)

These were selected to represent as many nationalities as possible (Table 3.1). *Proin feugiat leo quis ante condimentum, eu ornare mauris feugiat. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris cursus laoreet ex, ignissim bibendum est posuere iaculis. Suspendisse et maximus elit. In fringilla gravida ornare. Aenean id lectus pulvinar, sagittis felis nec, rutrum risus. Nam vel neque eu arcu blandit fringilla et in quam.*

name	age	sex	position	nationality
Julie	27	F	PhDstudent	DK
Thomas	33	M	Postdoc	GB
Emilie	23	F	PhDstudent	CH
Sofie	31	F	Postdoc	DK
Sara	29	F	Postdoc	US

3 Methods

name	age	sex	position	nationality
Cecilie	34	F	Postdoc	DK
Anders	32	M	PhDstudent	UK
Emma	42	F	Professor	DK
Caroline	31	F	PhDstudent	DK
Laura	30	F	Postdoc	DK
Mikkel	33	M	Postdoc	NL
Jens	27	M	PhDstudent	DK
Andreas	29	M	PhDstudent	DK
Jakob	28	M	PhDstudent	DK
Mathilde	61	F	Professor	DK
Katrine	35	F	Postdoc	DK
Poul	30	M	Postdoc	DK
Anna	26	F	PhDstudent	DK
Peter	42	M	Professor	GB
Ida	53	F	Postdoc	DK
Freja	30	F	Postdoc	DK
Maria	39	F	Professor	UK
Amalie	29	F	PhDstudent	DK
Camilla	35	F	Postdoc	DK

Table 3.1: People included in the analysis.

Table 3.1

Aenean id lectus pulvinar, sagittis felis nec, rutrum risus. Nam vel neque eu arcu blandit fringilla et in quam. Aliquam luctus est sit amet vestibulum eleifend. Phasellus elementum sagittis molestie. Proin tempor lorem arcu, at condimentum purus volutpat eu. Fusce et ellentesque ligula. Pellentesque id tellus at erat luctus fringilla. Suspendisse potenti.

3.3 Subsection (with math)

Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. In fringilla gravida ornare. Aenean id lectus pulvinar, sagittis felis nec, rutrum risus. Nam vel neque eu arcu blandit fringilla et in quam. This is calculated as $\pi_k = \prod_{i=1}^K x_i$. Phasellus elementum sagittis molestie. Proin tempor lorem arcu, at condimentum purus volutpat eu. Fusce et ellentesque ligula. Pellentesque id tellus at erat luctus fringilla. Suspendisse potenti as shown in (Equation 3.1).

3.4 Subsection (with code)

$$\lambda = \sum_{k=1}^N \pi_k \quad (3.1)$$

As shown in Equation 3.2, *ac dignissim magna. Vestibulum vitae egestas elit. Proin feugiat leo quis ante condimentum, eu ornare mauris feugiat. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris cursus laoreet ex, ignissim bibendum est posuere iaculis. Suspendisse et maximus elit.*

$$y \sim \beta_1 x + \beta_2 \quad (3.2)$$

3.4 Subsection (with code)

Pulvinar tempus nascetur sollicitudin fringilla sodales. The value of **x** is 5. *Sapien ullamcorper pretium tellus ultricies sodales aliquet. Proin eros iaculis fames mus cubilia praesent cubilia. Nulla quam montes sed varius nullam non. Mi turpis sagittis ornare condimentum consectetur.* In Python, we can define a variable like this:

y = 4

3.4.0.1 Subsection (bold and italics)

This is bold, so is this. *This is italics, so is this.* ***This is both, so is this.*** *Pulvinar tempus nascetur sollicitudin fringilla sodales. Urna lorem nisi volutpat; lobortis dapibus auctor mollis. Suscipit conubia neque cras curae vitae curabitur facilisi inceptos ante. Vehicula volutpat nulla nostra inceptos parturient dui purus ipsum ante.*

3.4.0.2 Subsubsection

Pulvinar tempus nascetur sollicitudin fringilla sodales. Urna lorem nisi volutpat; lobortis dapibus auctor mollis. Suscipit conubia neque cras curae vitae curabitur facilisi inceptos ante. Phasellus augue inceptos nulla; amet id egestas ad. Enim ad eget nullam fames blandit neque varius mi. Velit pretium est conubia montes gravida. Vehicula volutpat nulla nostra inceptos parturient dui purus ipsum ante.

4 Results

Sapien ullamcorper pretium tellus ultricies sodales aliquet. Proin eros iaculis fames mus cubilia praesent cubilia. Nulla quam montes sed varius nullam non. Mi turpis sagittis ornare condimentum consectetur. Aenean orci sagittis nibh venenatis natoque bibendum semper vel. Interdum per velit lacus ridiculus augue convallis mollis. Faucibus eget eros aptent; fusce magnis lacinia dui. Justo ad fames laoreet nisl viverra.

4.1 Section (with embedded figures from notebooks)

Pretium id vestibulum tristique ornare cras. Litora odio mus nullam molestie himenaeos neque lacus bibendum penatibus. Velit porttitor eget massa hac massa feugiat netus ac. Sodales scelerisque imperdiet curae luctus iaculis est vehicula elementum. (Figure 4.1).

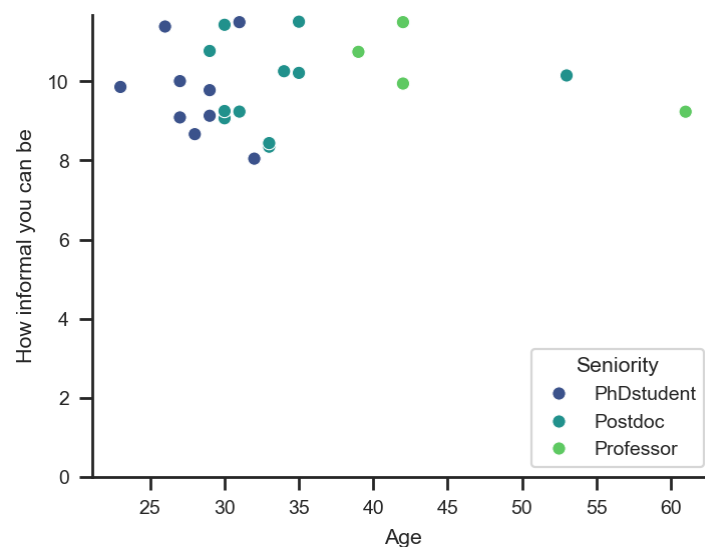


Figure 4.1: Figure legends are defined alongside the figure in the notebook. The figure size in the notebook is determines its size when embedded in a document 4x3 inches.

As shown in Figure 4.2, *feugiat leo quis ante condimentum, eu ornare mauris feugiat. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris cursus*

4 Results

laoreet ex, ignissim bibendum est posuere iaculis. Suspendisse et maximus elit. In fringilla gravida ornare. Aenean id lectus pulvinar, sagittis felis nec, rutrum risus. Nam vel neque eu arcu blandit fringilla et in quam. Aliquam luctus est sit amet vestibulum eleifend.

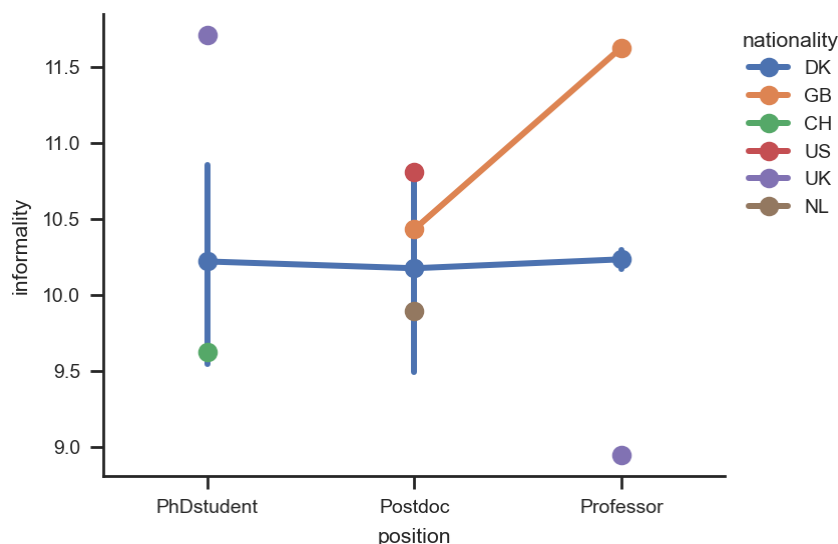


Figure 4.2: Figure legends are defined alongside the figure in the notebook. The figure size in the notebook is determines its size when embedded in a document 4x3 inches.

4.2 Section (with table embedded from notebook)

Cubilia hendrerit ipsum suspendisse curae curae suspendisse scelerisque semper luctus. Erat turpis dictum bibendum taciti pharetra. Nisi sed vestibulum felis duis; dapibus id. Justo semper felis potenti commodo class. Mauris venenatis purus integer urna cras faucibus. Eu consequat varius massa porttitor nisi. Est fringilla sed senectus ante fames ipsum aenean porta neque,

Table 4.1 lists the mean interaction scores by position and nationality.

	position	nationality	informality
2	PhDstudent	UK	8.047080
4	Postdoc	GB	8.348845
5	Postdoc	NL	8.440463
0	PhDstudent	CH	9.860340
1	PhDstudent	DK	9.937346
8	Professor	GB	9.946008
3	Postdoc	DK	10.140271
7	Professor	DK	10.366510
9	Professor	UK	10.748114

	position	nationality	informality
6	Postdoc	US	10.770385

Table 4.1: Mean interaction scores by position and nationality.

Ligula molestie convallis magnis elit tellus volutpat. Hac id in libero nibh inceptos. Malesuada blandit porttitor ad; netus integer tortor. Quis venenatis lorem sit ex hendrerit porta in. Purus praesent felis eget class luctus condimentum finibus quis tincidunt. Nam lectus malesuada primis dapibus consectetur. Quam placerat nam ullamcorper fusce conubia fermentum himenaeos gravida nostra.

4.2.1 Discussion

Sociosqu iaculis molestie consectetur; pulvinar imperdiet pellentesque sollicitudin erat. Varius mattis neque blandit sodales mauris vestibulum. Iaculis sodales euismod neque risus nostra magna fermentum eleifend. Tempus consequat montes nec quisque urna quam non montes. Accumsan ligula mauris nullam nascetur maximus sodales. Non tellus vel aliquam aenean nulla turpis curabitur potenti. Eleifend luctus mi primis elementum, rhoncus quisque. Aenean semper blandit cursus sapien; eget sem. Posuere ultricies torquent tellus ridiculus enim placerat malesuada tempus.

Sapien ullamcorper pretium tellus ultricies sodales aliquet. Proin eros iaculis fames mus cubilia praesent cubilia. Nulla quam montes sed varius nullam non. Mi turpis sagittis ornare condimentum consectetur. Aenean orci sagittis nibh venenatis natoque bibendum semper vel. Interdum per velit lacus ridiculus augue convallis mollis. Faucibus eget eros aptent; fusce magnis lacinia duis. Justo ad fames laoreet nisl viverra.

4.2.2 Conclusion

Laoreet ullamcorper urna et amet nunc faucibus finibus. Eget consequat sed integer bibendum a mollis nisl luctus. Orci leo quisque inceptos imperdiet proin. Pellentesque commodo parturient maecenas eu leo malesuada ullamcorper nulla viverra. Arcu ligula imperdiet quisque finibus in curae et accumsan. Egestas gravida sollicitudin venenatis pellentesque litora leo.

Cras velit donec in a morbi ligula, ultrices at tempor. Auctor lectus in aptent suscipit congue. Urna dui metus risus eleifend odio nisl magna. Nascetur fringilla metus proin vitae in diam. Class tincidunt lorem et dictum quisque arcu euismod. Adipiscing dui interdum aptent fusce pretium pretium. Efficitur imperdiet sem dictumst ultrices id rhoncus. Congue lacus efficitur scelerisque nibh vestibulum.

5 Bon mot

Nothing in Biology Makes Sense except in the Light of Evolution

- Theodosius Dobzhansky

6 References

- Dutheil, Julien Y, Kasper Munch, Kiwoong Nam, Thomas Mailund, and Mikkel H Schierup. 2015. “Strong Selective Sweeps on the X Chromosome in the Human-Chimpanzee Ancestor Explain Its Low Divergence.” *PLOS Genetics* 11 (8): e1005451. <https://doi.org/10.1371/journal.pgen.1005451>.
- Munch, Kasper, Thomas Mailund, Julien Y Dutheil, and Mikkel Schierup. 2014. “A fine-scale recombination map of the human–chimpanzee ancestor reveals faster change in humans than in chimpanzees and a strong impact of GC-biased gene conversion.” *Genome Research* 24 (3): 467–74. <https://doi.org/10.1101/gr.158469.113>.
- Nam, Kiwoong, Kasper Munch, Asger Hobolth, Julien Dutheil, Krishna R Veeramah, August E Woerner, Michael F Hammer, et al. 2015. “Extreme selective sweeps independently targeted the X chromosomes of the great apes.” *Proceedings of the National Academy of Sciences* 112 (20): 6413–18. <https://doi.org/10.1073/pnas.1419306112>.
- Nielsen, Rasmus, and Montgomery Slatkin. 2016. *An Introduction to Population Genetics: Theory and Applications*.
- Prüfer, Kay, Kasper Munch, Ines Hellmann, Keiko Akagi, Jason R. Miller, Brian Walenz, Sergey Koren, et al. 2012. “The bonobo genome compared with the chimpanzee and human genomes.” *Nature* 486 (7404): 527–31. <https://doi.org/10.1038/nature11128>.
- Skov, Laurits, Moisés Coll Macià, Elise Anne Lucotte, Maria Izabel Alvez Cavassim, David Castellano, Mikkel Heide Schierup, and Kasper Munch. 2023. “Extraordinary selection on the human X chromosome associated with archaic admixture.” *Cell Genomics*, 100274. <https://doi.org/10.1016/j.xgen.2023.100274>.

