Title of the report

Subtitle

Julien Vitay

Fred Hamker

2024-06-21

Abstract

This is the abstract of the report. It can span multiple lines.

Table of contents

# 1. Introduction

## 1.1 First subsection

References: Scholl et al. (2022) showed that XXX (Vitay, 2017).

See [Figure 1](#fig-matrix) and [Section 3](#sec-results).

|  |
| --- |
| Figure 1: Afferent system to VTA. (Vitay, 2017) |

Equations:

$$τ \frac{dx\_{j}\left(t\right)}{dt}+x\_{j}\left(t\right)=\sum\_{i}^{​}w\_{ij}^{in} r\_{i}^{in}\left(t\right)+g \sum\_{i\ne j}^{​}w\_{ij}^{rec} r\_{i}\left(t\right)$$

Admonitions:

|  |
| --- |
|  Nota Bene |
| Important information. |

Code snippets:

for i in range(10):
 print(i)

## 1.2 Second subsection

<https://www.youtube.com/embed/tPgf_btTFlc>

# 2. Material and methods

# 3. Results

# 4. Discussion

# References

Scholl, C., Baladron, J., Vitay, J., and Hamker, F. H. (2022). Enhanced habit formation in Tourette patients explained by shortcut modulation in a hierarchical cortico-basal ganglia model. *Brain Structure and Function*. doi:[10.1007/s00429-021-02446-x](https://doi.org/10.1007/s00429-021-02446-x).

Vitay, J. (2017). On the role of dopamine in motivated behavior: A neuro-computational approach. Available at: <https://julien-vitay.net/publication/vitay2017/>.