

VU Research Portal

Visual Attention and Dopamine in Value-Based Learning

McCoy, B.

2020

document version

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

citation for published version (APA)

McCoy, B. (2020). *Visual Attention and Dopamine in Value-Based Learning*.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

E-mail address:

vuresearchportal.ub@vu.nl

Contents

Chapter 1: Introduction	9
◆ Prioritization	11
◆ What drives selection? The role of goals, saliency, and selection history	14
◆ Reward	17
◆ Pavlovian and instrumental conditioning	19
◆ Attention and reward	20
◆ Overt and covert attention	22
◆ Oculomotor capture and reward	23
◆ Decision-making and learning	25
◆ Models of decision-making	26
◆ Models of learning	29
◆ Neural correlates of learning	32
◆ Special case: how dopamine deficits affect learning in Parkinson's disease	35
◆ Overview of imaging methods	37
Chapter 2: Effects of reward on oculomotor control	43
Chapter 3: Overt and covert attention to location-based reward	83
Chapter 4: Dopaminergic medication reduces striatal sensitivity to negative outcomes in Parkinson's disease	113
Chapter 5: Distractor inhibition and reinforcement learning in Parkinson's disease: behavioural and brain commonalities	169
Chapter 6: Summary	199
References	207
List of Publications	237
Acknowledgements	239