

VU Research Portal

Evaluation of machine learning models in psychiatry

Dinga, R.

2020

document version

Publisher's PDF, also known as Version of record

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

citation for published version (APA)

Dinga, R. (2020). *Evaluation of machine learning models in psychiatry*. [PhD-Thesis - Research and graduation internal, Vrije Universiteit Amsterdam].

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

TABLE OF CONTENTS

Chapter 1	General introduction	6
Chapter 2	Predicting the naturalistic course of depression from a wide range of clinical, psychological, and biological data: a machine learning approach <i>Translational Psychiatry, 2018.</i>	20
Chapter 3	Evaluating the evidence for biotypes of depression: methodological replication and extension of Drysdale et al. 2017 <i>Neuroimage: Clinical, 2019</i>	41
Chapter 3 Correspondence	A Closer Look at Depression Biotypes: Correspondence Relating to Grosenick et al. (2019) <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging 2020</i>	71
Chapter 4	Beyond accuracy: Measures for assessing machine learning models, pitfalls and guidelines <i>Under review</i>	75
Chapter 5	Controlling for effects of confounding variables on machine learning predictions <i>Under review</i>	102
Chapter 6	Summary of findings and General Discussion	122
	Acknowledgements	135
	Curriculum vitae	136
	Publication list	137
	Dissertation series	139