



University of Groningen

## Homonymous Hemianopia: Impact on Daily Life and the Effects of Scanning Training on Mobility

de Haan, Gera Ada

**IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.**

*Document Version*

Publisher's PDF, also known as Version of record

*Publication date:*

2016

[Link to publication in University of Groningen/UMCG research database](#)

*Citation for published version (APA):*

de Haan, G. A. (2016). Homonymous Hemianopia: Impact on Daily Life and the Effects of Scanning Training on Mobility. [Groningen]: Rijksuniversiteit Groningen.

### Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

### 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.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

# Homonymous Hemianopia

Impact on Daily Life and the Effects of Scanning Training  
on Mobility

Gera A. de Haan

*The research described in this thesis was supported by:*

ZonMw - InZicht (project 94307005)

The Heymans Institute, University of Groningen

Royal Dutch Visio (project OI0204)

School of Behavioral and Cognitive Neuroscience (BCN), University of Groningen

Centraal Bureau Rijvaardigheidsbewijzen (CBR)

Bartiméus



*Printing of this thesis was financially supported by:*

Royal Dutch Visio

University of Groningen

School of Behavioral and Cognitive Neuroscience (BCN), University of Groningen

Bartiméus



Cover: Elbrich Steegstra - Grafisch Ontwerp en Illustratie

Printed by: Gildeprint - Enschede

ISBN 978-90-367-9089-5 (printed version)

ISBN 978-90-367-9086-4 (electronic version)

© 2016, Gera A. de Haan

All rights reserved. No part of this publication may be reproduced, stored or transmitted in any form or by any means without prior written permission of the author.



rijksuniversiteit  
groningen

# Homonymous hemianopia

Impact on daily life and the effects of scanning training on  
mobility

## Proefschrift

ter verkrijging van de graad van doctor aan de  
Rijksuniversiteit Groningen  
op gezag van de  
rector magnificus prof. dr. E. Sterken  
en volgens besluit van het College voor Promoties.

De openbare verdediging zal plaatsvinden op

donderdag 27 oktober 2016 om 14.30 uur

door

**Gera Ada de Haan**

geboren op 15 december 1987  
te Zwolle

**Promotores**

Prof. dr. W.H. Brouwer

Prof. dr. O.M. Tucha

**Copromotores**

Dr. J.H.C. Heutink

Dr. B.J.M. Melis-Dankers

**Beoordelingscommissie**

Prof. dr. J.M. Spikman

Prof. dr. G. Kerkhoff

Prof. dr. J. van der Steen

## CONTENTS

1	General introduction	7
2	Study design	13
3	Spontaneous recovery and treatment effects in patients with homonymous visual field defects: a meta-analysis of existing literature in terms of the ICF framework	21
4	Difficulties in daily life reported by patients with homonymous visual field defects	51
5	Car driving performance in hemianopia: an on-road driving study	63
6	The effects of compensatory scanning training on mobility in patients with homonymous visual field defects: a randomized controlled trial	83
7	The effects of compensatory scanning training on mobility in patients with homonymous visual field defects: further support, predictive variables and follow-up	117
8	General discussion and conclusion	141
	References	151
	Summary	167
	Abbreviations	173
	Nederlandse samenvatting	177
	Dankwoord	187
	Publications and presentations	191
	Curriculum vitae	197

