

## CURRICULUM VITAE

Name: Jan Willem Brascamp Assistant professor  
E-mail: brascamp[at]msu[dot]edu Michigan State University

### EDUCATION

2008	Helmholtz Institute, Utrecht University, The Netherlands	PhD in neurobiology ( <i>cum laude</i> ), supervisor: A.V. van den Berg
2001	Wageningen University, The Netherlands	MSc in biology ( <i>cum laude</i> )
1999	Wageningen University, The Netherlands	BSc in biology

### PROFESSIONAL APPOINTMENTS

Assistant professor, Michigan State University, 2015-current  
Research assistant professor, Utrecht University, 2012-2015  
Visiting scholar, University of Amsterdam, 2012-2015  
Post-doctoral research fellow, lab of Serge Dumoulin at Utrecht University, 2011-2012  
Post-doctoral research fellow, lab of Randolph Blake at Vanderbilt University, 2009-2011  
Post-doctoral research fellow, lab of Raymond van Ee at Utrecht University, 2008

### JOURNAL PUBLICATIONS ([http://scholar.google.nl/citations?user=S3\\_eQdwAAAAJ&hl=en](http://scholar.google.nl/citations?user=S3_eQdwAAAAJ&hl=en))

M.F. Silva, J.W. Brascamp, S. Ferreira, M. Castelo-Branco, S.O. Dumoulin and B.M. Harvey (2018) Radial asymmetries in population receptive field size and cortical magnification factor in early visual cortex. *NeuroImage*, 167: 41-52.

J.W. Brascamp\*, P. Sterzer\*, R. Blake\* and T.H.J. Knapen\* (2018) Multistable perception, and the role of frontoparietal cortex in perceptual inference. *Annual Review of Psychology*, 69: 77-103  
\*These authors contributed equally

S. Stuit, J.W. Brascamp, M. Barendregt, M. van der Smagt and S. te Pas (2017) Image-based and eye-based influences on binocular rivalry have similar spatial profiles. *Journal of Vision*, 17(14).

C.S. Qian and J.W. Brascamp (2017) How to build a dichoptic presentation system that includes an eye tracker. *Journal of Visualized Experiments* (127), e56033.

C.S. Qian, J.W. Brascamp and T. Liu (2017) On the functional order of binocular rivalry and blind spot filling-in. *Vision Research*, 136: 15-20.

J.W. Brascamp and M. Naber (2017) Eye tracking under dichoptic viewing conditions: a practical solution. *Behavior Research Methods*, 49(4): 1303-09.

K. Dieter, J.W. Brascamp, D. Tadin and R. Blake (2016) Does visual attention drive the dynamics of bistable perception? *Attention, Perception & Psychophysics*, 78(7): 1861-73.

T.H.J. Knapen\*, J.W. de Gee\*, J.W. Brascamp, S. Nuiten, S. Hoppenbrouwers and J. Theeuwes (2016) Cognitive and ocular factors jointly determine pupil responses under equiluminance. *PLoS ONE*, 11(5): e0155574.  
\*These authors contributed equally

G. Schauer, R. Kanai and J.W. Brascamp (2016) Parietal theta burst TMS: functional fractionation observed during bistable perception not evident in attention tasks. *Consciousness and Cognition*, 40: 105-115.

M. Naber and J.W. Brascamp (2015) Commentary: is the frontal lobe involved in conscious perception? *Frontiers in Psychology*, 6: 1736.

J.W. Brascamp, R. Blake and T.H.J. Knapen (2015) Negligible fronto-parietal BOLD activity accompanying unreportable switches in bistable perception. *Nature Neuroscience*, 18(11): 1672-8.

M.A.B. Brinkhuis, Á. Kristjánsson and J.W. Brascamp (2015) Evidence for distinct mechanisms underlying attentional priming and sensory memory for bistable perception. *Journal of Vision*, 15(11): 8, 1-15.

W. Kruijne, J.W. Brascamp, Á. Kristjánsson and M. Meeter (2015) Can a single short-term mechanism account for priming of pop-out? *Vision Research*, 115A: 17-22.

J.W. Brascamp, P.C. Klink, with a contribution from W.J.M. Levelt (2015) The 'laws' of binocular rivalry: 50 years of Levelt's propositions. *Vision Research*, 109: 20-37.

S. Gayet, J.W. Brascamp, S. van der Stigchel and C.L.E. Paffen (2015) Cogito ergo video: Task relevant information is involuntarily boosted into awareness. *Journal of Vision*, 15(5): 3, 1-18.

Jan W. Brascamp, PhD

- E. Yang, J.W. Brascamp, M.-S. Kang and R. Blake (2014) On the use of continuous flash suppression for the study of visual processing outside of awareness. *Frontiers in Psychology*, 5: 724.
- M. de Jong, J.W. Brascamp, C. Kemner, R. van Ee and F. Verstraten (2014) Implicit perceptual memory modulates early visual processing of ambiguous images. *The Journal of Neuroscience*, 34(30): 9970-9981
- R. Blake, J.W. Brascamp and D.J. Heeger (2014) Can binocular rivalry reveal neural correlates of consciousness? *Philosophical Transactions B*, 369: 20130211.
- J.W. Brascamp, H. Sohn, S.-H. Lee and R. Blake (2013) A monocular contribution to stimulus rivalry. *Proceedings of the National Academy of Sciences USA*, 110(21): 8337-44.
- J.W. Brascamp and R. Blake (2012) Inattention abolishes binocular rivalry: perceptual evidence. *Psychological Science*, 23(10): 1159-1167.  
F1000 Prime recommendation by B. Cumming (2013)
- J.W. Brascamp, E. Pels and Á. Kristjánsson (2011) Priming of pop-out on multiple time scales during visual search. *Vision Research*, 51(17): 1972-1978.
- T.H.J. Knapen\*, J.W. Brascamp\*, J. Pearson, R. van Ee and R. Blake (2011) The role of frontal and parietal brain areas in bistable perception. *The Journal of Neuroscience*, 31(28): 10293-10301.  
\*These authors contributed equally
- J.W. Brascamp, R. Blake and Á. Kristjánsson (2011) Deciding where to attend: priming of pop-out drives target selection. *JEP:HPP*, 37(6): 1700-1707.
- P.C. Klink, J.W. Brascamp, R. Blake and R.J.A. van Wezel (2010) Experience-driven plasticity in binocular vision. *Current Biology*, 20: 1-6.
- J.W. Brascamp, J.J.A. van Boxtel, T.H.J. Knapen and R. Blake (2010) A dissociation of attention and awareness in phase sensitive but not phase insensitive visual channels. *Journal of Cognitive Neuroscience*, 22(10): 2326-2344.
- J.W. Brascamp, R. Kanai, V. Walsh and R. van Ee (2010) Human middle temporal cortex, perceptual bias, and perceptual memory for ambiguous three-dimensional motion. *The Journal of Neuroscience*, 30(2): 760-766.
- T.H.J. Knapen, J.W. Brascamp, W.J. Adams and E.W. Graf (2009) The spatial scale of perceptual memory in ambiguous figure perception. *Journal of Vision*, 9(13): 16, 1-12.
- J.W. Brascamp, J. Pearson, R. Blake and A.V. van den Berg (2009) Intermittent ambiguous stimuli: implicit memory causes periodic perceptual alternations. *Journal of Vision*, 9(3): 3, 1-23.
- J. Pearson and J.W. Brascamp (2008) Sensory memory for ambiguous vision. *Trends in Cognitive Sciences*, 12(9): 334-341.
- J.W. Brascamp\*, T.H.J. Knapen\*, R. Kanai, A.J. Noest, R. van Ee and A.V. van den Berg (2008) Multi-timescale perceptual history resolves visual ambiguity. *PLoS ONE*, 3(1): e1497.  
\*These authors contributed equally
- T.H.J. Knapen, R. Kanai, J.W. Brascamp, J.J.A. van Boxtel and R. van Ee (2007) Distance in feature space determines exclusivity in visual rivalry. *Vision Research*, 47(26): 3269-3275.
- J.W. Brascamp, T.H.J. Knapen, R. Kanai, R. van Ee and A.V. van den Berg (2007) Flash suppression and flash facilitation in binocular rivalry. *Journal of Vision*, 7(12): 12, 1-12.
- J.W. Brascamp, R. van Ee, A.J. Noest, R.H.A.H. Jacobs and A.V. van den Berg (2006) The time course of binocular rivalry reveals a fundamental role of noise. *Journal of Vision*, 6(11): 1244-1256.
- R. van Ee, A.J. Noest, J.W. Brascamp and A.V. van den Berg (2006) Attentional control over either of the two competing percepts of ambiguous stimuli revealed by a two-parameter analysis: Means don't make the difference. *Vision Research*, 46(19): 3129-3141.
- J.W. Brascamp, R. van Ee, W. Pestman and A.V. van den Berg (2005) Distributions of alternation rates in various forms of bistable perception. *Journal of Vision*, 5(4): 287-298.
- J. Grasman, J.W. Brascamp, J.L. van Leeuwen and B. van Putten (2003) The multifractal structure of arterial trees. *Journal of Theoretical Biology*, 220(1): 75-82.

## BOOK CHAPTERS

- J.W. Brascamp (2015) Binocular rivalry and other forms of visual bistability. In: Behavioural methods in consciousness research. M.S. Overgaard (ed.). Oxford University Press.

J.W. Brascamp and D.H. Baker (2013) Psychophysics of binocular rivalry. In: The constitution of consciousness. S.M. Miller (ed.). John Benjamins Publishing Company.

## REFEREED ABSTRACTS

J.W. Brascamp, M.W. Becker and D.Z. Hambrick (2017) Bolstering inter-observer differences to study the mechanisms behind perceptual bistability *VSS 17, St. Petersburg* (<http://dx.doi.org/10.7490/f1000research.1114294.1>)

C.S. Qian, J.W. Brascamp, T. Liu (2017) The functional order of binocular rivalry and blind spot filling-in *VSS 17, St. Petersburg*

B.M. Harvey, J.W. Brascamp, S. Ferreira, M. Castelo-Branco, S.O. Dumoulin, M.F. Silva (2017) Radial asymmetries in population receptive field size and cortical magnification factor in early visual cortex *VSS 16, St. Petersburg*

M. Brinkhuis, Á. Kristjánsson and J.W. Brascamp (2016) Is search priming reflected in BOLD repetition suppression? *VSS 16, St. Petersburg*

T.H.J. Knapen, R. Blake and J.W. Brascamp (2016) Unreportable switches in bistable perception produce negligible fronto-parietal BOLD activity. *VSS 16, St. Petersburg*

E. Kupers, J.W. Brascamp and T.H.J. Knapen (2016) Spatiotemporal BOLD correlates of switches in bistable perception. *VSS 16, St. Petersburg*

J.W. Brascamp, G. Schauer and R. Kanai (2015) Parietal theta burst TMS: functional fractionation observed during bistable perception not evident in attention tasks. *SfN 15, Chicago*

M. Brinkhuis, Á. Kristjánsson and J.W. Brascamp (2015) Priming of visual search and priming of bistable perception: Do they rely on shared mechanisms? *ECVP 15, Liverpool*

M. Brinkhuis, J.W. Brascamp and Á. Kristjánsson (2014) Attentional and perceptual priming share behavioral characteristics and may rely on common functional mechanisms. *ECVP 14, Belgrade*

J.W. Brascamp, R. Blake and T.H.J. Knapen (2014) Brain responses accompanying unnoticed switches in dominance during binocular rivalry. *OHBM 14, Hamburg*

S. Gayet, J.W. Brascamp, S. van der Stigchel and C. Paffen (2014) Perception during binocular rivalry is biased by the content of visual working memory. *VSS 14, St. Petersburg*

M. Brinkhuis, J.W. Brascamp and Á. Kristjánsson (2013) History dependence reveals communalities between selection among attention targets and selection among perceptual interpretations. *NVP 13, Egmond aan Zee*

J.W. Brascamp, H. Sohn, S.-H. Lee and R. Blake (2013) Perceptual suppression during stimulus rivalry diminishes contrast adaptation at eye-specific processing stages. *VSS 13, Naples*

Á. Kristjánsson, S. Egilsdottir, G. Gilmour, O. Johannesson, I.M. Olafsdottir and J.W. Brascamp (2013) Interdependencies between attentional priming and perceptual interpretation of ambiguous stimuli. *VSS 13, Naples*

W.J. Adams, T.H.J. Knapen, E.W. Graf and J.W. Brascamp (2013) Effects of spatial attention on motion aftereffects. *VSS 13, Naples*

J.W. Brascamp and R. Blake (2012) Binocular rivalry requires attention. *ASSC 12, Brighton*

J.W. Brascamp and R. Blake (2012) Perceptual proof that inattention abolishes binocular rivalry. *VSS 12, Naples*

J.W. Brascamp and R. Blake (2011) Binocular rivalry requires attention. *NVP 11, Egmond aan Zee*

Á. Kristjánsson, R. Blake and J.W. Brascamp (2011) Learning where to attend: priming of pop-out drives target selection. *VSS 11, Naples*

J.W. Brascamp, J.J.A. van Boxtel, T.H.J. Knapen, R. Blake (2010) Correlated effects of attention and awareness on contrast threshold elevation but not on afterimage formation. *VSS 10, Naples*

P.C. Klink, J.W. Brascamp, R. Blake, R. van Wezel (2010) Plasticity of interocular inhibition with prolonged binocular rivalry. *VSS 10, Naples*

J.W. Brascamp, R. Kanai, V. Walsh and R. van Ee (2009) The influence of TMS over MT on perceptual memory in structure-from-motion rivalry. *VSS 09, Naples*

W.J. Adams, T.H.J. Knapen, J.W. Brascamp, E.W. Graf (2009) Non-local effects of perceptual memory in ambiguous figure perception. *VSS 09, Naples*

*Jan W. Brascamp, PhD*

J.W. Brascamp, T.H.J. Knapen and J.J.A. van Boxtel (2008) Invisible images can leave stronger afterimages than visible images. *ECVP 08, Utrecht*

M.C. de Jong, J.W. Brascamp, C. Kemner and R. van Ee (2008) Neural correlates of memory in ambiguous perception measured with EEG. *ECVP 08, Utrecht*

J.W. Brascamp, J. Pearson, R. Blake and A.V. van den Berg (2008) Slow changes in neural state mediate percept switches in intermittent binocular rivalry. *VSS 08, Naples*

T.H.J. Knapen, J. Pearson, J.W. Brascamp, R. van Ee and R. Blake (2008) The role of frontal areas in alternations during perceptual bistability. *VSS 08, Naples*

J.W. Brascamp, T.H.J. Knapen, A.J. Noest, R. van Ee and A.V. van den Berg (2007) History dependence on multiple timescales in ambiguous figure perception. *SFN 07, San Diego*

J.W. Brascamp, T.H.J. Knapen, N.V. Stolk, R. van Ee and A.V. van den Berg (2007) Temporal characteristics of history dependence in ambiguous figure perception. *ECVP 07, Arezzo*

J.W. Brascamp, T.H.J. Knapen, R. Kanai, R. van Ee and A.V. van den Berg (2007) Perceptual memory of ambiguous figures survives spontaneous perceptual alternations. *VSS 07, Sarasota*

L.C.J. van Dam, R. Mulder, A.J. Noest, J.W. Brascamp, A.V. van den Berg and R. van Ee (2007) Sequential dependency for percept durations in binocular rivalry. *VSS 07, Sarasota*

R. van Ee, J.W. Brascamp, G.J. Brouwer, L.C.J. van Dam (2006) Endogenous control over either of the two percepts that compete for visual awareness in perceptual rivalry. *ASSC 06, Oxford*

J.W. Brascamp, R. van Ee, A.J. Noest and A.V. van den Berg (2006) Temporal dynamics of binocular rivalry imply an important role for noise. *ECVP 06, St. Petersburg*

R. van Ee, J.W. Brascamp, A.J. Noest and A.V. van den Berg (2006) Attentional control over either of the two competing percepts in the Necker cube. *ECVP 06, St. Petersburg*

J.W. Brascamp, A.J. Noest, R. van Ee and A.V. van den Berg (2006) Transition phases show the importance of noise in binocular rivalry. *VSS 06, Sarasota*

J.W. Brascamp, A.J. Noest and A.V. van den Berg (2005) The third percept in bistable perception. *VSS 05, Sarasota*

J.W. Brascamp, A.V. van den Berg and R. van Ee (2004) Shared neural circuitry for switching between perceptual states and ocular motor states? *VSS 04, Sarasota*

J.W. Brascamp, S. Kranenbarg, J.L. van Leeuwen and M. Muller (2000) Morphological restrictions in fish embryos due to limited nutrient supply and metabolic waste product deposition. *SEB 00, Exeter*

## **PUBLICATIONS IN POPULAR MEDIA**

J.W. Brascamp (2009) Invloeden van onbewust geheugen op visuele waarneming [Influences of implicit memory on visual perception]. *Tijdschrift voor Neuropsychiatrie en Gedragsneurologie*, 8(5): 115-118

## **TEACHING**

Introduction to Cognitive Science, Michigan State University, 2016-current  
Cognitive Psychology, Michigan State University, 2015-current  
Guest lecturer, Systems Neuroscience, Seoul National University, 2015  
Cognitive Neuroscience I, University College Utrecht, 2013  
Guest lecturer, Introduction to Cognitive Sciences, Utrecht University, 2012-2013  
Teaching assistant, Neurobiology, Utrecht University, 2004-2008  
Teaching assistant, General Zoology, Wageningen University, 1999-2001

## **GRANTS AND AWARDS**

2017-2022	\$424k	R01 research grant from the National Institutes of Health, in collaboration with PI Sam Ling. Role: co-I
2016	€3k	Utrecht University 'Seed Money' award international travel, in collaboration with Sjoerd Stuit. Role: host
2016	\$7k	MSU College of Social Sciences Faculty Initiatives Fund Award, in collaboration with Katy Thakkar. Role: co-PI
2013-2016	ISK10900k	Project Grant from the Icelandic Research Fund Rannís for funding a PhD project, in collaboration with Árni Kristjánsson. Role: co-PI
2012-2015	€250k	Veni grant from the Netherlands Organisation for Scientific Research (NWO). Role: PI

*Jan W. Brascamp, PhD*

2009-2011	€45k	Rubicon grant for postgraduate research from the Netherlands Organisation for Scientific Research (NWO). Role: PI
2008		Grant-in-aid. British Council Partnership Programme in Science. Role: PI
2008		Received PhD degree <i>cum laude</i>
2008		Sponsored participation. European Summer School on Visual Neuroscience—From spikes to awareness, Rauischholzhausen, Germany
2008		Travel award. Worldwide Universities Network Research Mobility Programme
2007-2008		Graduate student travel grant. IIE Fulbright Program
2007		Travel award. Elsevier/Vision Research Travel Award for the 2007 annual meeting of the Vision Sciences Society
2001		Received MSc degree <i>cum laude</i>

#### INVITED TALKS

Mar 2017	University of Iceland, Reykjavik, Iceland	Visual perception under conditions of ambiguity: the roles of sensory and non-sensory factors
Mar 2016	McMaster University, Hamilton, Canada	The involvement of frontal and parietal cortex in human visual perception
May 2015	Seoul National University, Seoul, South Korea	What is the role of frontal and parietal brain areas in bistable perception?
Feb 2015	University of Sussex, Brighton, UK	Parietal involvement in changes in the perception of ambiguous stimuli
Feb 2014	Université Paris Descartes, Paris, France	Relations between perceptual interpretation and selective attention
Dec 2013	Donders Institute, Nijmegen, Netherlands	Selective attention and unconscious inference
Nov 2013	Free University Amsterdam, Amsterdam, Netherlands	Interpretation and selection in binocular rivalry
May 2012	Korea University, Seoul, Korea	Binocular rivalry requires attention
April 2012	Seoul National University, Seoul, South Korea	Binocular rivalry requires attention
Sept 2011	Utrecht University, Utrecht, Netherlands	The role of frontal and parietal areas in bistable perception
June 2011	Radboud University, Nijmegen, Netherlands	What causes perception of bistable stimuli to alternate?
June 2011	University of Amsterdam, Amsterdam, Netherlands	Decoupling binocular rivalry from conscious perception
June 2011	Netherlands Institute for Neuroscience, Amsterdam, Netherlands	The role of frontal and parietal areas in bistable perception
July 2009	Université Paris Descartes, Paris, France	A dissociation of attention and awareness in phase sensitive but not phase insensitive visual neurons
Oct 2008	Otto-von-Guericke University, Magdeburg, Germany	Ambiguous images reveal history dependence in visual processing
May 2008	UCL Gatsby Theoretical Neuroscience Unit, London, UK	History dependence of visual selection studied with ambiguous images
July 2007	University of Southampton, Southampton, UK	Persistence and decay of perceptual memory for ambiguous stimuli
June 2007	Helmholtz Institute, Bergen, Netherlands	History dependence in perception of ambiguous stimuli
May 2007	New York University, New York, USA	Perceptual memory of ambiguous figures survives spontaneous perceptual alternations
Nov 2006	Academic Medical Centre, Amsterdam, Netherlands	The dual nature of flashes in binocular rivalry
June 2006	California Institute of Technology, Pasadena, USA	Stabilization of bistable perception
May 2006	Stanford University, Palo Alto, USA	Adaptation and noise in bistable perception
May 2006	University of California, Berkeley, USA	Adaptation and noise in bistable perception
July 2005	Helmholtz Institute, Bergen, Netherlands	A common standard for measuring motivational and physical variables in binocular rivalry

#### AD HOC REVIEWER ACTIVITIES (<https://publons.com/author/335250/jan-brascamp#profile>)

Attention Perception and Psychophysics  
 Bipolar Disorders  
 Brain Research  
 Cognition  
 Cognitive Affective and Behavioral Neuroscience  
 Cognitive Neurodynamics  
 Cognitive Science  
 Current Biology  
 Emotion  
 Frontiers  
 i-Perception  
 International Journal of Psychophysiology  
 Journal of Neurophysiology  
 Journal of Neuroscience  
 Journal of Cognitive Neuroscience  
*Jan W. Brascamp, PhD*

Journal of Cognitive Science  
Journal of Experimental Psychology: General  
Journal of Experimental Psychology: Human Perception and Performance  
Journal of Vision  
Nature Communications  
Nature Neuroscience  
Neuroimage  
Neuroscience of Consciousness  
Perception  
Perceptual and Motor Skills  
Physiology & Behavior  
PLoS Computational Biology  
PLoS ONE (<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0174259>)  
Proceedings of the National Academy of Sciences USA  
Proceedings of the Royal Society B  
Psychological Science  
Psychological Bulletin  
Psychonomic Bulletin & Review  
Scientific Reports  
Vision  
Vision Research (<https://psychology.msu.edu/brascamplab/images/Certificate.pdf>)