

## IRIS ISABELLE ANNA GROEN

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### EDUCATION HISTORY

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- 2009 - 2014 **University of Amsterdam, Department of Psychology, Amsterdam, The Netherlands**  
PhD (*cum laude*). Thesis title: *Scene statistics: neural representation of real-world structure in rapid visual perception*. Advisors: Prof. dr. Victor Lamme, Dr. Steven Scholte, Dr. Sennay Ghebreab.
- 2006 - 2009 **University of Amsterdam, Institute for Interdisciplinary Studies, Amsterdam, The Netherlands**  
**MRC Cognition and Brain Sciences Unit (CBU), Memory Group, Cambridge, UK.**  
MSc (*cum laude*), Brain and Cognition Sciences. Thesis title: *The role of medial temporal lobe structures in visual discrimination of objects and scenes: a combined patient and fMRI study*.  
Advisors: Dr. Morgan Barense, Dr. Rik Henson, Prof. dr. Lisa Saksida, Prof. dr. Timothy Bussey.
- 2003 - 2006 **University of Amsterdam, Institute for Interdisciplinary Studies, Amsterdam, The Netherlands**  
BSc (*cum laude*), Beta-Gamma, Psychobiology major.

### EMPLOYMENT HISTORY

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- starting Sept 2020 **University of Amsterdam, Department of Informatics, Amsterdam, The Netherlands**  
Assistant-professor (tenure-track), supported by a MacGillavry Fellowship from the Faculty of Science.
- 2017 - present **New York University, Department of Psychology, New York, USA**  
Post-doctoral Associate with Dr. Jon Winawer (NYU) and Natalia Petridou (Utrecht University).
- 2014 - 2017 **National Institutes of Health, Laboratory of Brain and Cognition, Bethesda, USA**  
Post-doctoral Fellow with Dr. Chris Baker.
- 2007 - 2008 **University of Amsterdam, Departments of Developmental Psychology / Psychonomics**  
Research assistant for Dr. Birte Forstmann and Dr. Steven Scholte.

### SUBMITTED PUBLICATIONS

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Gaglianese A, Branco MP, **Groen IIA**, Benson NC, Vansteensel MJ, Murray MM, Petridou N, Ramsey NF (*under review*)  
Electrocorticography evidence of tactile motion responses in visual cortices.

Seijdel N, Jahfari S, **Groen IIA**, Scholte HS (*under review*) Low-level image statistics in natural scenes influence perceptual decision-making. Preprint DOI: <https://doi.org/10.17605/OSF.IO/P3R8A>

Ramakrishnan K, **Groen IIA**, Smeulders AWM, Scholte HS, Ghebreab S (*in revision*) Characterization of temporal dynamics of visual object recognition by convolutional neural networks: role of network depth. Preprint: <https://doi.org/10.1101/178541>

van Loon AM, **Groen IIA**, Fahrenfort JJ, Scholte HS, Lamme VAF (*under review*) Learning to recognize natural scenes improves category tuning in object-selective cortex.

## REFEREED PUBLICATIONS

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Holdgraf C, Appelhof S, Bickel S, Bouchard K, D'Ambrosio S, David O, Devinsky O, Dichter B, Flinker A, Foster BL, Gorgolewski KJ, **Groen IIA**, Groppe D, Gunduz A, Hamilton L, Honey CJ, Jas M, Knight R, Lachaux J-P, Lau JC, Lee-Messer C, Lundstrom BR, Miller KJ, Ojemann JG, Oostenveld R, Petridou N, Piantoni G, Pigorini A, Pouratian N, Ramsey NF, Stolk A, Swann NC, Tadel F, Voytek B, Wandell BA, Winawer J, Witaker K, Zehl L & Hermes D (2019) BIDS-iEEG: an extension to the brain imaging data structure (BIDS) specification for human intracranial electrophysiology. *Nature Scientific Data* 6(1), 102

**Groen IIA**&, King ML&, Steel AD, Kravitz DJ, Baker CI (2019) Similarity judgments and cortical visual responses reflect different properties of object and scene categories in naturalistic images. *NeuroImage* 197, 368-382

**Groen IIA**&, Jahfari S&, Seijdel N, Ghebreab S, Lamme VAF, Scholte HS (2018) Scene complexity modulates degree of feedback activity during object detection in natural scenes. *PLoS Computational Biology* 14(12): e1006690

Bankson BB&, Hebart MN&, **Groen IIA**, Baker CI (2018) The temporal evolution of conceptual object representations revealed through models of behavior, semantics and deep neural networks. *NeuroImage* 178, 172-182.

**Groen IIA**, Greene MR, Baldassano C, Fei-Fei L, Beck DM, Baker CI (2018) Distinct contributions of functional and deep neural network features to scene representation in brain and behavior. *eLife* 2018;7:e32962.

**Groen IIA**, Silson EH, Baker CI (2017) Contributions of low- and high-level properties to neural processing of visual scenes in the human brain. *Philosophical Transactions of the Royal Society B* 372:20160102.

Malcolm GL, **Groen IIA**, Baker CI (2016) Making sense of real-world scenes. *Trends in Cognitive Sciences* 20(11), 843-865.

Harel A, **Groen IIA**, Kravitz DJ, Deouell LY, Baker CI (2016) The temporal dynamics of scene processing: a multi-faceted EEG investigation. *eNeuro*, 10.1523/ENEURO.0139-16.2016.

Silson EH, **Groen IIA**, Kravitz D, Baker CI (2016) Evaluating the correspondence between face-, scene-, and object-selectivity and retinotopic organization within lateral occipitotemporal cortex. *Journal of Vision* 16(6):14, 1-21.

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2016) The time course of natural scene perception with reduced attention. *Journal of Neurophysiology* 115:2, 931-946.

Ramakrishnan K, Scholte HS, **Groen IIA**, Smeulders AWM & Ghebreab S (2015) Visual dictionaries as intermediate features in the human brain. *Frontiers in Computational Neuroscience* 8:168.

Ramakrishnan K, **Groen IIA**, Scholte HS, Smeulders AWM, Ghebreab S (2014) Visual dictionaries in the brain: comparing HMAX and BoW. *IEEE International Conference on Multimedia and Expo (ICME)*, Chengdu, China.

**Groen IIA**, Ghebreab S, Prins H, Lamme VAF, Scholte HS (2013) From image statistics to scene gist: evoked activity reveals transformation from low-level natural image structure to scene category. *The Journal of Neuroscience* 33(48): 18814-18824.

Ramakrishnan K, **Groen IIA**, Scholte HS, Smeulders AWM, Ghebreab S (2013) Visual word representation in the brain. In: *3rd NIPS Workshop on Machine Learning and Interpretation in NeuroImaging (MLINI)*, Lake Tahoe, Nevada, USA.

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2012) Spatially pooled contrast statistics predict neural and perceptual similarity of naturalistic image categories. *PLoS Computational Biology* 8(10): e1002726.

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2012) Low-level contrast statistics are diagnostic of invariance of natural textures. *Frontiers in Computational Neuroscience* 6:34.

Barens MD, **Groen IIA**, Lee ACH, Yeung LK, Brady SM, Gregori M, Kapur N, Bussey TJ, Saksida LM, Henson RNA (2012) Intact memory for irrelevant items impairs perception in amnesia. *Neuron* 75(1):157-67

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& Authors contributed equally to this manuscript.

Winkel JG, Wijnen J, Danielmeijer C, **Groen IIA**, Derfuss J, Ridderinkhof KR, Forstmann BU (2012) Observed and self-experienced conflict induce similar behavioral and neural adaptation. *Social Neuroscience*, 7:4, 385-397.

Winkel JG, Wijnen JG, Ridderinkhof KR, **Groen IIA**, Derrfuss J, Danielmeier C and Forstmann BU (2009) Your conflict matters to me! Behavioral and neural manifestations of control adjustment after self-experienced and observed decision-conflict. *Frontiers in Human Neuroscience* 3:57.

## **NON-REFEREED PUBLICATIONS**

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**Groen IIA** & Baker CI (2019) Scenes in the human brain: Comparing 2D versus 3D representations. *Neuron* 101(1), 8-10

**Groen IIA** & van Velzen (2007) Gezocht: Kosmisch Ontwerper ('Wanted: Cosmic Designer'), literary journal *De Gids*, Vol. 02, February.

## **CONFERENCE PROCEEDINGS**

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**Groen IIA**, Piantoni G, Flinker D, Devore S, Devinsky O, Doyle W, Ramsey N, Petridou N, Winawer J. (2020) Modeling the temporal dynamics of neuronal responses in human visual cortex. *To be presented at Vision Sciences 2020*. [**Poster**].

**Groen IIA**, Piantoni G, Flinker D, Devore S, Devinsky O, Doyle W, Ramsey N, Petridou N, Winawer J. (2020) Modeling the temporal dynamics of neuronal responses in human visual cortex. *2020 Eye to Brain Research Retreat, Department of Ophthalmology, New York University, NY, USA*. [**Poster + Blitz talk**].

**Groen IIA**, Zhou J, Piantoni G, Hermes D, Flinker D, Devinsky O, Doyle W, Ramsey N, Petridou N, Winawer J. (2019) The temporal dynamics of neuronal responses in human visual cortex. *Annual Meeting of the Organization for Human Brain Mapping, Rome, Italy*. [**Poster + Invited Talk**].

**Groen IIA**, Zhou J, Hermes D, Kay KN, Winawer J (2018) Simulation and recovery of broadband field potentials. *Annual Meeting for the Society of Neuroscience, San Diego, USA* [Poster].

Petridou N, Schellekens W, Zhou J, Benson N, **Groen IIA**, Ramsey N, Winawer J (2018) Extending population receptive fields to new domains. *4th Annual BRAIN Initiative Investigators Meeting, Bethesda, USA* [Poster].

**Groen IIA**, Silson EH, Baker CI (2017) Consecutive TBS-fMRI on scene-selective cortex reveals non-specific effects in high-level visual cortex. *16th Winter conference of the Dutch Society of Psychonomics (NVP), Egmond aan Zee, The Netherlands* [Talk].

**Groen IIA**, Greene MR, Baldassano C, Fei-Fei L, Beck DM, Baker CI (2017) Mind the gap: comparing DNN and functional models of scene representation in brain and behavior. *International Conference for Cognitive Neuroscience, Amsterdam, Netherlands* [**Symposium Talk**]

**Groen IIA**, Greene MR, Baldassano C, Fei-Fei L, Beck DM, Baker CI (2017) Convolutional neural networks best predict representational dissimilarity in scene-selective cortex: comparing computational, object and functional models. *Vision Sciences Society Annual Meeting, St. Pete's Beach, FL* [Talk]

**Groen IIA**, Greene MR, Baldassano C, Fei-Fei L, Beck DM, Baker CI (2017) Convolutional neural networks best predict representational dissimilarity in scene-selective cortex, but not behavior: comparing computational, object and functional models. *Workshop on Concepts, Actions and Objects (CAOs), Rovereto, Italy* [**Poster + Award Talk**]

**Groen IIA**, Greene MR, Baldassano C, Fei-Fei L, Beck DM, Baker CI (2017) Comparing computational, object and functional models of scene representation in the human brain. *Cognitive Neuroscience Society, San Francisco, CA* [Poster]

**Groen IIA**, Greene MR, Baldassano C, Fei-Fei L, Beck DM, Baker CI (2016) Comparing computational, object and functional models of scene representation in the human brain. *Society for Neuroscience, San Diego, CA* [**Symposium Talk**]

Baker CI, Silson EH, **Groen IIA** (2016) The effect of consecutive TMS-fMRI on scene representations in high-level visual cortex. *Society for Neuroscience, San Diego, CA* [Poster]

Silson EH, **Groen IIA**, Baker CI (2016) The effect of consecutive TMS fMRI on the contralateral preference for scenes within scene-selective occipital place area. *Society for Neuroscience, San Diego, CA* [Poster]

**Groen IIA**, Silson EH, Baker CI (2015) Differential representation of man-made and natural scenes in scene-selective cortex. *Society for Neuroscience*, Chicago, IL [Poster]

**Groen IIA**, Silson EH, Baker CI (2015) Differential representation of man-made and natural scenes in scene-selective cortex. *15<sup>th</sup> Winter conference of the Dutch Society of Psychonomics (NVP)*, Egmond aan Zee, The Netherlands [Talk].

**Groen IIA**, Jahfari S, Lamme VAF, Scholte HS (2014) Selective increase in recurrent processing for object detection in complex natural scenes. *Vision Sciences Society Annual Meeting*, 2015, Naples, FL [Poster]

**Groen IIA**, Jahfari S, Lamme VAF, Scholte HS (2014) Recurrent processing contributes to natural scene categorization only for scenes of high complexity. *Society for Neuroscience*. Washington DC [Poster]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2014). Neural computation of scene gist with and without attention. *Vision Sciences Society Annual Meeting*, St Pete Beach, FL [Poster]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2013). Two stages in the time-course of scene gist perception. *14<sup>th</sup> Winter conference of the Dutch Society of Psychonomics (NVP)*, Egmond aan Zee, The Netherlands [Talk]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2013). Two stages in the time-course of scene gist perception. *Perception* 42 ECV Abstract Supplement, page 161, Bremen, Germany [Talk]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2013). Neural dissimilarities of scene categories map onto low-level contrast statistics. *Human Brain Mapping*, Seattle, WA [Poster]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2013). Two stages in scene gist perception revealed by evaluating summary statistics with single-image ERPs. *Vision Sciences Society Annual Meeting*, Naples, FL [Poster]

**Groen IIA**, Prins H, Ghebreab S, Lamme VAF, Scholte HS (2012). Man-made or natural? From image statistics to scene gist via single-trial EEG responses, *Society for Neuroscience*, New Orleans. LA [Poster]

**Groen IIA**, Prins H, Ghebreab S, Lamme VAF, Scholte HS (2012). Image contrast statistics predict evoked responses to natural scenes and perceived scene naturalness. *Workshop on Concepts, Actions and Objects: Functional and Neural perspectives (CAOs)*, Rovereto, CiMeC, Italy. [Poster]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2012). Image statistics describe both early and late processing of natural scenes. *Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC)*. Brighton, UK. [Poster]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2012). Man-made or natural? From image statistics to scene gist via single-trial EEG responses. *Gordon Research conference on Sensory Coding and the Natural Environment (SNCE)*, Klosterneuburg, Institute for Science and Technology, Austria. [Poster]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2011) Invariance of natural textures is predicted by low-level edge responses. *13<sup>th</sup> Winter conference of the Dutch Society of Psychonomics (NVP)*, Egmond aan Zee, The Netherlands. [Talk]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS, (2011). Summary statistics of edge information predict categorization of naturalistic images. *2011 Neuroscience Meeting Planner*, Washington DC. Society for Neuroscience. Online. [Poster]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS, (2011). Summary statistics of edge information predict categorization of naturalistic images. *Perception* 40 ECV Abstract Supplement, page 18. [Talk]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2010). The role of Weibull image statistics in rapid object detection in natural scenes. *J Vis* August 2, 2010 10(7): 992, Naples, Florida [Poster]

**Groen IIA**, Ghebreab S, Lamme VAF, Scholte HS (2009) The relationship between natural image statistics and object perception *12<sup>th</sup> Winter conference of the Dutch Society of Psychonomics (NVP)*, Egmond aan Zee, The Netherlands. [Talk]

## INVITED TALKS and LAB VISITS

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- 2020 (upcoming). Intracranial EEG meeting, Comprehensive Epilepsy Monitoring Unit, New York University (Dr. Adeen Flinker).
- 2020 (upcoming). Perception and Brain Dynamics Lab, Langone Medical Center, New York University (Dr. Biyu He).
- 2019. Invited speaker at 5<sup>th</sup> CiNet Conference themed 'Computation and Representation in Brains and Machines', Center for Information and Neural Networks (CiNet), Osaka, Japan (Dr. Shinji Nishimoto)
- 2018. Donders Center for Cognitive Neuroimaging, Nijmegen, The Netherlands.
- 2018. Columbia University, NY (Dr. Chris Baldassano)
- 2017. University Medical Center Utrecht, The Netherlands (Dr. Natalia Petridou).
- 2017. Nathan Kline Institute, Orangeburg, NY (Dr. Charles Schroeder).
- 2017. University of Bologna, Department of Psychology, Italy (Dr. Andrea de Cesare)
- 2017. Columbia University, Laboratory for Intelligent Imaging and Computing (Dr. Paul Sajda).
- 2016. Society for Neuroscience, San Diego, Invited Talk for nanosymposium on Scene Perception and Spatial Navigation (organized by J. Julian and M. Bonner).
- 2015. NIMH Fellow's Scientific Training Day, abstract selected for oral presentation by Fellow's Committee.
- 2015. Honorary presentation for Thesis Award from the Dutch Society for Psychonomics, Egmond aan Zee.
- 2013. Stanford University, Stanford Computer Vision lab (Fei-Fei Li).
- 2013. Berkeley University, Whitney lab for Perception and Action (Dr. David Whitney).
- 2013. University of Santa Barbara, Vision and Image Understanding lab (Dr. Miguel Eckstein).
- 2013. Brown University, Serre Lab (Dr. Thomas Serre).
- 2012. University of Amsterdam, Center for Math and Informatics (Dr. Cees Snoek and Dr. Arnold Smeulders).
- 2012. New York University, Computational NeuroImaging Lab (Dr. David Heeger).
- 2012. Columbia University, Laboratory for Intelligent Imaging and Computing (Dr. Paul Sajda).
- 2012. Columbia University, Cognitive Neuroscience and Neuroimaging Laboratory (Dr. Charles Schroeder).
- 2012. City College of New York, Neural Engineering Group (Dr. Simon Kelly).
- 2012. Harvard University, Vision Sciences Lab (Dr. George Alvarez).
- 2012. NIMH, Laboratory of Brain and Cognition, Bethesda (Dr. Chris Baker).
- 2011. Princeton University, Hasson Lab (Dr. Uri Hasson).
- 2011. Radboud Universiteit Nijmegen, Donders Discussions, session 'Foundations of Neuroscience'.
- 2011. University of Amsterdam, Amsterdam Vision Meeting.

## AWARDS and GRANT FUNDING

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- 2019. MacGillavry Fellowship from the Faculty of Science of University of Amsterdam, to support a 5yr tenure-track assistant-professorship. Selected as one of 6 from >400 applicants.
- 2019. Veni grant from Netherlands Organisation of Scientific Research (NWO). €250,000 (3 years). A total of 11 grants were awarded from 71 eligible applications in the Cross-domain Veni round 2019.
- 2019. NYU Faculty of Arts and Sciences Postdoctoral Travel award (\$700)
- 2019. Females in Vision (FoVea) Travel and Networking award (\$1600)
- 2017. Abstract Award for International Workshop on Concepts, Actions, Objects (CAOs), Rovereto, Italy (€ 200)
- 2015. Rubicon postdoctoral fellowship, Netherlands Organisation of Scientific Research (NWO). €130,000 (2 years). Ranked #5 out of 44 applications (7 awarded).
- 2015. PhD Thesis prize from the Dutch Society of Psychonomics (NVP). Award covers a period of two years and is awarded among nominated theses with a cognitive neuroscience topic in The Netherlands. € 500
- 2013. Symposium proposal titled 'Single-trial dynamics in visual perception' awarded for 14<sup>th</sup> Winter Conference of the Dutch Society of Psychonomics, ranked #2 out of 12 proposals.
- 2010. FENS-IBRO European Summer School on Visual Neuroscience. Rauscholzhausen, Germany. Selected as one of 30 out of ~200 applicants.
- 2009. Grindley Grant for Conference Attendance. Experimental Psychology Society, £ 500
- 2009. Stunt-beurs. Travel grant for studying abroad. € 500
- 2008. Erasmus Scholarship. Support for training abroad. € 1250
- 2008. Hersenstichting Nederland. Scientific research project support. € 500
- 2008. Stichting Bekker-La-Bastide Fonds. Support for internships abroad. € 1250
- 2008. Hendrik Muller's Vaderlandsch Fonds. Support for internships abroad. € 1000
- 2008. IIS Internationaliseringsbeurs. Support for research projects abroad. € 500
- 2007. League of European Research Universities: Bright student conference, Stockholm, Sweden. Selected as one of 10 out of more than 50 applications.
- 2006. Science Award from the Institute for Interdisciplinary Studies. € 500

## TEACHING EXPERIENCE and (GUEST-) LECTURES

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- Instructor and coordinator with course development, *Neurophysiology: Introduction to Electrophysiology and Imaging*, master program Brain and Cognitive Sciences, University of Amsterdam, 2011, 2012, 2013.
- Lecture "Explaining rapid natural scene processing" *Vision and Cognition*, master's level. Rijksuniversiteit Groningen. 2011.
- Lecture "What is EEG?" *Amsterdam University College*. 2011.
- Supervision of 4-week EEG research project carried out by 3rd year Psychobiology bachelor students, 2012.
- Supervision of 8-week behavioural research projects carried out by 2nd-year Psychology bachelor students, 2010, 2011.

## MENTORSHIP EXPERIENCE

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- Co-supervision of Post-baccalaureates in SLAP lab at NIH: Brett Bankson (now PhD student at U. Pittsburgh), Daniel Janini (now PhD student at Harvard U.) and Jennifer Henry (now MD student at George Washington U).
- Veronica Ramirez: Undergraduate student from the University of San Diego participating in the NIH Undergraduate Scholarship Program for students from disadvantaged backgrounds. Project: "The effect of object and background on image perception".
- Io Flament: Master student Brain and Cognitive Sciences. Project: "What's in a movie? Predicting early visual neural responses using Weibull Statistics". Currently: Data scientist at hellotrip.com.
- Hielke Prins: Master student Brain and Cognitive Sciences. Project: "EEG effects of time intervals in natural scene perception". Currently: PhD-student with Anil Seth at University of Sussex.
- Nelson Mooren: Bachelor student Psychobiology. Project: "The influence of image statistics on performance in rapid serial visual presentation (RSVP)".
- Rianne Penterman: Research master psychology student. Project: "Relation between image statistics and feed-forward and feedback processing of natural scenes".

## OUTREACH

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- 2015. Judge for the Undergraduate Short Term Research Experience Program for Underrepresented Persons (STEP-UP) Research Symposium (NIDDK/NIH).
- 2012. "Computer vision meets cognitive neuroscience": talk at the public opening at the University of Amsterdam.
- 2012. Interview for magazine "Talent" for parents with children with intellectual giftedness.
- 2012. Interview on scientific integrity in cognitive neuroscience research for magazine "MindOpen".

## REVIEWING

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- *Journal of Neuroscience, Cerebral Cortex, Nature Human Behavior, Nature Communications, Nature Scientific Reports, eLife, PLoS Computational Biology, Science Advances, NeuroImage, Journal of Cognitive Neuroscience, European Journal of Neuroscience, Journal of Neurophysiology, Journal of Vision, Vision Research, Cognitive Science, Psychophysiology, PLoS ONE, PeerJ, Cognition, Memory and Cognition, Frontiers in Psychology / Perception Science / Computational Neuroscience / Human Neuroscience / Systems Neuroscience / Emotion Science, Acta Psychologica, IEEE Access, Neural Networks*
- Abstract reviewing for Cognitive Computational Neuroscience Conference (CCN) 2018, 2019

## EDITORIAL CONTRIBUTIONS

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- *Frontiers in Human Neuroscience (Reviewing Editor), Frontiers in Emotion Science (Reviewing Editor)*

## PROFESSIONAL MEMBERSHIPS

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- Society for Neuroscience
- Vision Sciences Society
- Cognitive Neuroscience Society

## ACADEMIC REFERENCES

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### Research:

- **Dr. Chris Baker**  
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- **Dr. Jon Winawer**  
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- **Prof. dr. Victor A.F. Lamme**  
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### Teaching:

- **Dr. Carien Lansink**  
Swammerdam Institute for Life Sciences  
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