

Curriculum Vitae *Ilona M. Bloem*

Education

- September 2014 – present **Doctoral Student in Psychology**, specialization: Brain, Behavior and Cognition, Boston University, Boston, United States. Advisor: Dr. Ling.
- 2013 – 2014 **Research MSc Internship** (9 months). Labs of Dr Jehee, Donders institute, Nijmegen, the Netherlands and Dr Ling, Boston University, Boston.
- 2012 – 2014 **Research MSc Clinical and Cognitive Neuroscience**, specialization: Cognitive Neuroscience. Maastricht University, Maastricht, the Netherlands. Thesis (supervisors: Drs. Jehee, De Weerd & Ling): *Rigidity of spatial frequency selectivity within early visual cortex*.
- 2011 **BSc Internship** (6 months). Lab of Dr Laeng, Oslo University, Oslo, Norway. Thesis (supervisors: Drs. Laeng & Rademaker): *Imagining triangles induces eye movements, but does not affect pupil size, an eye tracking study*.
- 2009 – 2012 **BSc Biological Psychology**, Psychology and Neuroscience, Maastricht University, Maastricht, the Netherlands.

Publications

- Bloem, I.M.**, & Ling, S. (in prep). Attentional gain modulation relies on local feature-tuned normalization.
- Bloem, I.M.**, & Ling, S. (in prep). Attentional modulation interacts with orientation anisotropies in contrast sensitivity.
- Rademaker, R.L., **Bloem, I.M.**, De Weerd, P., & Sack, A.T. (2015). The impact of interference on short-term memory for visual orientation. *Journal of Experimental Psychology: Human Perception and Performance*, 41(6), 1650-1665.
- Rademaker, R.L., Wu, D-A, **Bloem, I.M.**, & Sack, A.T. (2014). Intensive tool-practice and skillfulness facilitate the extension of the human body schema beyond first order limitations. *Neuropsychologia*, 56, 196-203.
- Laeng, B., **Bloem, I.M.**, D'Ascenzo, S., & Tommasi, L. (2014). Scrutinizing visual images: The role of gaze in mental imagery and memory. *Cognition*, 131, 263-283.

Conference presentations & talks

- Bloem, I.M.**, & Ling, S. (2016). Attentional gain modulation relies on local feature-tuned normalization. *Poster*. Vision Sciences Society.
- Bloem, I.M.**, & Ling, S. (2015). Attentional gain modulation relies on local feature-tuned normalization. *Talk*. Society for Neuroscience.
- Jans, B., van de Ven, Waldorp, L., V., Been, M.M., **Bloem, I.M.**, Uludağ, K., Goebel, R., & De Weerd, P. (2015). Enhanced readout of early visual cortex after perceptual learning measured with fMRI. *Poster*. Society for Neuroscience.
- Bloem, I.M.**, Janati, T., & Ling, S. (2015). Attentional modulation interacts with orientation anisotropies in contrast sensitivity. *Poster*. Vision Sciences Society.
- Rademaker, R.L., **Bloem, I.M.**, De Weerd, P. & Sack, A.T. (2013). Properties of high-fidelity visual working memory representations for orientation. *Poster*. Vision Sciences Society. Abstract: *Journal of Vision*, 13(9).

Bloem, I.M., Rademaker, R.L. & Laeng, B. (2012). Imagining triangles induces eye movements, but does not affect pupil size, an eye tracking study. *Poster*. Annual Student Research Conference, VSNU, Utrecht, the Netherlands.

Rademaker, R.L., Wu, D.A., **Bloem, I.M.**, & Sack, A. (2011). Lifetime-built motor fluency and training enable an extended sense of the body beyond classical first-order extensions in humans. *Poster*. Donders Discussions, Donders Institute for Brain, Cognition and Behavior, Nijmegen, the Netherlands.

Bloem, I.M., Driessen, M.H., Gerlach, A., van Heel, A., Hemmers, L., Tibud, A., Wellen, F.A.M., & Rademaker, R.L. (2011). Second-order object integration into the body schema. *Poster*. Annual Psychology Student Research Meeting, Maastricht University, the Netherlands.

Awards & grants

2016	CompNet Travel Award from Boston University, to attend the annual Vision Sciences Society meeting.
2015	CompNet Travel Award from Boston University, to attend the 1-day International Research Symposium: A Sensational World – Representations of the Brain’s Visual System. Maastricht University, Netherlands
2015	CompNet Travel Award from Boston University, to attend the annual Society for Neuroscience meeting.
2015	CompNet Travel Award from Boston University, to attend the annual Vision Sciences Society meeting.
2014 – 2015	Dean’s Fellowship, Boston University.
2014	Hendrik Muller foundation grant, private Dutch foundation that supported my MSc internship at Boston University.
2012	Maastricht Research-Based Learning grant for continued research after BSc thesis project (120 hrs). First author: Ilona M. Bloem, last author: Rosanne L. Rademaker.

Professional activities and public outreach

June 2016	NIMH Summer Institute in Cognitive Neuroscience fellowship , UCSB. Attended a 2-week summer school focusing on brain circuits and the stressed brain.
2015 - present	MRI Certified user , Center for Brain Science, Harvard University.
2013 – 2014	Research assistant , Maastricht University. Activities included analysing fMRI data of a perceptual learning experiment.
2012 – 2014	Track representative for the research Master Clinical and Cognitive Neuroscience, Maastricht University.
2011 – 2012	Maastricht Research-Based Learning (MaRBLe) program (supervisors: Dr. Bruno Laeng & Dr Rosanne Rademaker), bachelor students got the opportunity to write an emerial thesis.
2011 – 2014	Research assistant , Maastricht University. Activities included programming a visual working memory experiment, analysing the data, and writing the manuscript.
2012	Demonstration assistant , Series of demo-sessions about “the Positive Afterimage”. Continium Science Museum, Kerkrade, the Netherlands.

Teaching

- Spring 2016 **Teaching Fellow** for an undergraduate experimental lab in perception course. Boston University
- 2015 - present **Advisee** of Alejandra Lopez and Yurika Watanabe, undergraduate students, Neuroscience major.
- Fall 2015 **Teaching Fellow** for an undergraduate perception course. Boston University
- Fall 2015 **Lecture** (1.5hr) during undergraduate course “Sensation & Perception”, topic Color Perception.

Skills

Languages: Dutch (native) and English.

Software & programming skills: Proficient with MatLab (using Psychophysics Toolbox, mrTools, and NeuroElf), Adobe Illustrator, Brainvoyager, FreeSurfer, SPSS, and acquainted with R (using Ancestral Graph Toolbox).

Professional memberships Society for Neuroscience & Vision Sciences Society.