

CURRICULUM VITAE
Marlene Behrmann Cohen
April 2018

A. BIOGRAPHICAL INFORMATION

1. Personal

Date of birth: April 14, 1959 (Johannesburg, South Africa)
Citizenship: South Africa; Canada; United States of America
Address: Department of Psychology,
Carnegie Mellon University
Pittsburgh, PA 15213-3890
phone: (412) 268-2790; fax: (412) 268-2798
email: behrmann@cmu.edu
web page: <http://www.cmu.edu/dietrich/behrmannlab/>

2. Degrees

- 1991 **Ph.D. (Psychology)** University of Toronto. *Supervisor:* Dr. M. Moscovitch.
Thesis title: Attention and word recognition in neglect dyslexia: Evidence from brain-damaged and normal subjects and from a computational model.
- 1984-5 Research training: Birkbeck College, University of London. *Supervisor:* Dr. M. Coltheart.
- 1984 **M.A. (Speech Pathology)** cum laude, University of Witwatersrand, Johannesburg. *Supervisor:* Dr C. Penn.
Dissertation title: A neurolinguistic approach to reading problems in aphasia.
- 1981 **B.A. (Speech and Hearing Therapy)** cum laude, University of Witwatersrand, Johannesburg.

3. Employment and Teaching

- 2018 Courtesy appointment, Biomedical Engineering, Carnegie Mellon University
- 2016 University Professor, Carnegie Mellon University and Center for the Neural Basis of Cognition.
- 2014-15 CMU Director of the Center for the Neural Basis of Cognition
- 2014 Chair: George A. and Helen Dunham Cowan Professor of Cognitive Neuroscience
- 2007 Professor, Dept of Psychology, Carnegie Mellon University and Center for the Neural Basis of Cognition.
- 2006 Professor, Dept of Psychology, University of Toronto; Canada Research Chair (Tier 1), University of Toronto.
- 2002 Professor, Dept of Psychology, Carnegie Mellon University.
- 2000-1 Visiting Professor (sabbatical), Weizmann Institute of Science, Israel
- 1998 Associate Professor (with tenure), Department of Psychology, Carnegie Mellon University.
- 1997-8 Associate Professor (without tenure), Department Psychology, Carnegie Mellon University.
- 1997- Adjunct Associate Professor, Dept. of Neuroscience and Department of Communication Disorders, U. Pitt.
- 1995 Affiliated Faculty, Center for the Neural Basis of Cognition (joint CMU/Pitt).
- 1993-7 Assistant Professor, Department of Psychology, Carnegie Mellon University.
- 1994-7 Assistant Professor, Adjunct appointment, Department of Communication Science and Disorders, U. Pitt.
- 1991-3 Assistant Professor, Departments of Psychology and Medicine (Neurology), U. of Toronto.
- 1990-3 Staff Scientist, Rotman Research Institute of Baycrest Centre, Toronto.
- 1986-7 Research assistant Dr S. E. Black, Cognitive Neurology, Sunnybrook Health Center.
- 1986 Lecturer, Department of Speech Path. & Audiology, U. of the Witwatersrand, Johannesburg.
- 1983-5 Clinical supervisor, Department of Speech Path. and Audiology, U. of the Witwatersrand.
- 1982 Speech Pathologist in practice.

4. Honors

- 2017 Faculty Member Award for Neuroscience, F1000 (<https://blog.f1000.com/2018/03/07/2017-f1000prime-awards-winners/>)
- 2017 Inspiring Women in Science Award, Brown University

- 2016 Ladies Hospital Aid Society Pittsburgh, Distinguished Educator award
2016 Certificate for highly cited research, Vision Research.
2016 Nominated and included on Anne's list: Women in computational and cognitive neuroscience
<https://anneslist.net/category/cognitive-neuroscience/>
2015 Member, National Academy of Sciences
2014 Fellow, Cognitive Science Society.
2014 Certificate for Excellence in reviewing, Elsevier Press (Neuropsychologia)
2012 Elected Fellow of Eastern Psychological Association.
2010 Academic expert for GoCognitive Video series (www.gocognitive.com; <http://vimeo.com/8697643>)
2008 Member, Society of Experimental Psychologists (Prestigious academic society)
2006 Recipient, Justine and Yves Sergent Award, University of Montreal
2006 Fellow, American Psychological Society
2004 Member of Western delegation meeting in residence with Dalai Lama (Multiple day Scientific Exchange between Eastern monks and Western scientists)
2001 APA Distinguished Scientific Award for Early Career Contributions to Behavioral and Cognitive Neuroscience
2000-1 Weston Visiting Professorship, Dept. Computer Science and Applied Mathematics, Weizmann Institute, Israel
2000-1 James McKeen Cattell award for sabbatical support
1999 Presidential Early Career Award in Science & Engineering (PECASE).
1998 Early career award in Neuropsychology (Div. 40), American Psychological Foundation; Finalist, McDonnell Centennial Fellowship Award.
1995-00 National Institutes of Mental Health, FIRST award.
1993-8 Natural Sciences and Engineering Research Council Women Faculty Award, Canada declined).
1992-7 Medical Research Council of Canada Scholarship. Voluntarily terminated 1994.
1989 Ontario Ministry of Health, Research Personnel Development Scholarship.
1987-8 Natural Sciences and Engineering Research Council Scholarship for Postgraduate Studies.
1986 Ontario, Speech Language and Hearing Assoc. Founders' Award for best paper at OSLA Convention.
1984-5 Isie Smuts Fellowship Award awarded by the South African Assoc. of University Women (Nov '84- March '85).
1984-5 British Council scholarship to further academic studies in Britain.
1982 Most distinguished woman graduate of the year, University of the Witwatersrand; Pierre de V Pienaar Prize for top graduate in B.A. (Speech and Hearing Therapy).
1982 Philips' Medal for the most outstanding graduate in Speech Pathology and Audiology.

5. Membership and professional affiliations

International Neuropsychology Symposium
Society for Neurosciences
Psychonomic Society
American Psychological Association
American Psychological Society
Vision Sciences Society
Society for Experimental Psychologists

6. Editorial activities

Editorial board membership: *Proceedings of the National Academy of Science*; *Open Minds*; *Journal of Cognitive Neuroscience*; *NeuroCase*; *Neuropsychologia*; *Cognitive Neuropsychology*; *Cortex*

F1000 Faculty member, <http://f1000.com/thefaculty/member/1668422047137071>.

Ad hoc reviewer of research grant applications: *Medical Research Council of Canada*; *Alzheimer Society of Canada*; *NIH*; *NSF*; *Wellcome Trust*; *Israel Science Foundation*

Ad hoc reviewer of submitted manuscripts: *Brain*; *Cognitive, Affective and Behavioral Neuroscience*; *Cognitive Neuropsychology*; *Cognitive Psychology*; *Cortex*; *Journal of Clinical and Experimental Neuropsychology*; *Journal of*

Cognitive Neuroscience; Journal of Experimental Psychology (HPP, LMC); Memory and Cognition; Nature; Nature Neuroscience; Neuron; Neuropsychologia; Perception and Psychophysics; Psychonomic Bulletin and Review; Quarterly Journal of Experimental Psychology; Science; Vision Research

7. Other professional activities (last five years)

Ongoing Study sections NIH and NSF and ad hoc reviewer, NIH Board of Scientific Counsellors
2017-20 SFN's Achievement Awards Selection Committee
2016- Member, membership committee NAS Section 52
2016- Member, National Academy of Sciences, Sackler Award Committee and Atkinson Award Committee
2011-14 Program committee, Society for Neuroscience
2010-15 Member, Committee to award Rumelhart International prize
2015- External Advisory Board for the Center for Mind & Brain, University of California, Davis
2016- Steering committee, Edmond and Lily Safra Center for Brain Sciences (ELSC) at Hebrew U., Jerusalem
2016- External advisory board, VISTA Institute, York University, Toronto

B. CURRENT RESEARCH AWARDS

(pending awards not included)

2017-2021 PI: **M. Behrmann**. National Institutes of Health (NEI).

Title: Reorganization of visual function following posterior cortical resection

2016-2021 PI: J. C. Snow Co-PI: **M. Behrmann**. National Institutes of Health (NEI).

Title: Bringing the real world into cognitive neuroscience: From images to real objects.

2018-2019 PI: P. Grover Co-PI **M. Behrmann**, M. Tarr and S. Kelly. Chuck Noll Foundation.

Title: Novel systems for concussion monitoring and treatment: Automated detection of tsunamis.

2018-2020 PI: P. Grover Co-PI **M. Behrmann**, M. Tarr and S. Kelly. PITA proposal

Title: "Minimalist Electrodes for Suppressing Brain Tsunamis Through Noninvasive Neurostimulation"

2018-2020: P. Grover Co-PI **M. Behrmann**, M. Tarr and S. Kelly. UPMC/CMLH proposal. Automated Detection and Suppression of "Brain Tsunamis" with Applications to Migraine and Brain Injuries

C. PUBLICATIONS

1a. Refereed Journals: published or in press

216. Nah, J.C., Neppi-Modona, M., Strother, L., **Behrmann, M.** and Shomstein, S. Object Width Modulates Object-Based Attentional Selection, *Attention, Perception and Psychophysics*, in press.

215. Krishnan, A., Kumar, R., Etienne, A., Robinson, A., Kelly, S., K., **Behrmann, M.**, Tarr, M., and Grover, P. (2018). Challenges and Opportunities in Instrumentation and Use of High-Density EEG for Underserved Regions. *Interdisciplinary Solutions 2018 (InterSol2018)*.

214. Freud, E., Robinson, A. and **Behrmann, M.** (2018). More than action: The dorsal pathway contributes to the perception of 3D structure. *Journal of Cognitive Neuroscience*, in press.

213. Collins, E., Robinson, A., and **Behrmann, M.** (2018). Distinct neural processes for the perception of familiar and unfamiliar faces along the visual hierarchy revealed by frequency tagging. *Neuroimage, subject to revision*.

212. **Behrmann, M.** and Geskin, J. (2018). Over time, the right results will emerge. Response to commentaries. *Cognitive Neuropsychology*, 35, 1-2, 101-111.

211. Robinson, A., Venkatesh, P., Boring, M. J., Tarr, M., **Behrmann, M.**, and Grover, P. (2017). Very high density EEG elucidates spatiotemporal aspects of early visual processing, *Scientific Reports*, 7(1):16248. doi: 10.1038/s41598-017-16377-3. PMID: 29176609
210. Freud, E., Culham, J. C., Plaut, D. C. and **Behrmann, M.** (2017). The large-scale organization of shape processing in the ventral and dorsal pathways. *eLife*, Oct 5;6. pii: e27576. doi: 10.7554/eLife.27576. [Epub ahead of print].
209. Vida, M. and **Behrmann, M.** (2017). Subcortical facilitation of rapid responses to threat, *Scientific Reports*, 7:13087, DOI:10.1038/s41598-017-13203-8.
208. Collins, E. G., Dundas, E., Gabay, Y. and **Behrmann, M.** (2017). Hemispheric organization in neuro-developmental disorders. *Visual Cognition* (Special Issue on "Person Perception"). *Epub ahead of print*: doi: 10.1080/13506285.2017.1370430.
207. van Rooij, D., **Behrmann, M.** et al. (2017). Cortical and Subcortical Brain Morphometry Differences Between Patients With Autism Spectrum Disorder and Healthy Individuals Across the Lifespan: Results From the ENIGMA ASD Working Group. *American Journal of Psychiatry*, 2017:appiajp201717010100. doi: 10.1176/appi.ajp.2017.17010100. [Epub ahead of print]
206. Brown, E. N. and **Behrmann, M.** (2017). Controversy in statistical analysis of functional magnetic resonance imaging data. *Proc. Nat. Academy of Sciences*, doi: 10.1073/pnas.1705513114
205. Geskin, J. and **Behrmann, M.** (2018). Congenital prosopagnosia without object agnosia: A literature review (with commentaries). *Cogn Neuropsychol.* 35, 1-2, 4-54.
204. Freud, E. and **Behrmann, M.** (2017). The life-span trajectory of visual perception of 3D objects. *Scientific Reports*, 8;7(1):11034. doi: 10.1038/s41598-017-11406-7.
203. Gabay, Y., Dundas, E., Plaut, D. and **Behrmann, M.** (2017). Atypical perceptual processing of faces in developmental dyslexia, *Brain and Language*, 173, 41-51.
202. Liu, T. T. and **Behrmann, M.** (2017). Functional outcomes in patients with lesions in visual cortex: Implications for developmental plasticity of high-level vision. *Neuropsychologia*, 105, 197-214. PMID: 28668576
201. Rosenthal, G., Tanzer, M., Simony, E., Hasson, U., **Behrmann, M.** and Avidan, G. (2017). Altered topology of neural circuits in congenital prosopagnosia. *eLife*, <https://elifesciences.org/articles/25069>. PMID: 28825896
200. Collins, E., Park, J. and **Behrmann, M.** (2017). Numerosity representation is encoded in human subcortex, *Proc. Nat. Academy of Sci (PNAS)*, 114(14):E2806-E2815.
199. Maurides, P. and **Behrmann, M.** (2017). The brain as muse – bridging art and neuroscience. *Leonardo*, 10.1162/LEON_a_01402, January 2017.
198. Avidan, G., Rosenthal, G. and **Behrmann, M.** (2017). Congenital prosopagnosia: What's new? *Progress in Brain Research*, in press.
197. Robinson, A., Plaut, D. C. and **Behrmann, M.** (2017). Word and face processing engage overlapping distributed networks: Evidence from RSVP and EEG investigations. *Journal of Experiment Psychology: General*, 146(7):943-961. PMID: 28368200
196. Rokem, A., Takemura, H., Bock, A., Scherf, S., Bridge, H., Fine, I., **Behrmann, M.**, Wandell, B., Van Essen, D., and Pestilli, F. (2017). The visual white matter: The application of diffusion MRI and fiber tractography to vision science, *Journal of Vision*, 17(2):4, 1-30. doi: 10.1167/17.2.4. PMID: 28196374

195. Vida, M., Nestor, A., Plaut, D. and **Behrmann, M.** (2017). Spatio-temporal dynamics of similarity-based neural representations of individual face identities, *Proc. Nat. Academy of Sci (PNAS)*, 114, 2, 388-393. PMID: 28028220
194. Heeger, D., **Behrmann, M.** and Dinstein, I. (2016). Vision as a beachhead. *Biol Psychiatry*. 15;81(10):832-837. PMID: 27884424
193. Harris, H., Israeli, D., Minshew, N., Heeger, D., **Behrmann, M.** and Sagi, D. (2016). Commentary: Perceptual learning in autism: over-specificity and possible remedies. *Front Integr Neurosci*. 2016 Nov 9;10:36. PMID: 27881955
192. Haigh, S., Gupta, A., Barb, S., Glass, S. A., Minshew, N. J., Dinstein, I., Heeger, D., Eack, S. M. and **Behrmann, M.** (2016). Differential sensory fMRI signatures in autism and schizophrenia: Analysis of amplitude and trial-to-trial variability, *Schizophrenia Research*, 175(1-3): 12-9. doi: 10.1016/j.schres.2016.03.036. PMID: 27083780.
191. **Behrmann, M.**, Lee, A. C. H., Geskin, J. Z., Graham, K. S., and Barense, M. D. (2016). Temporal lobe contribution to perceptual function: A tale of three patient groups, *Neuropsychologia*, 90, 33-45. PMID: 27150707. doi: 10.1016/j.neuropsychologia.2016.05.00.
190. **Behrmann, M.**, Scherf, K. S. and Avidan, G. (2016). Neural mechanisms of face perception, their emergence over development, and their breakdown. *Wiley Interdisciplinary Reviews: Cognitive Science*. doi: 10.1002/wcs.1388. Wiley Interdiscip Rev Cogn Sci. 2016 Jul;7(4):247-63. doi: 10.1002/wcs.1388. Review. PMID: 27196333
189. Boring, M., Kelly, S., Weldon, J., Tarr, M., Robinson, A., **Behrmann, M.** and Grover, P. (2016). Containing errors in computation for neural sensing: does a hierarchical referencing strategy lead to energy savings?" Proceedings of the 2016 Workshop on Information Theory and its Applications (ITA), San Diego, CA.
188. Uyar, F., Shomstein, S., Greenberg, A. and **Behrmann, M.** (2016). Retinotopic information interacts with categorization in human object selective cortex, *Neuropsychologia*, 92, 90-106. pii: S0028-3932(16)30173-7. doi: 10.1016/j.neuropsychologia.2016.05.022. PMID: 27241486
187. Freud, E., Plaut, D. C. and **Behrmann, M.** (2016). "What" is happening in the dorsal visual pathway *Trends in Cognitive Sciences*, 20(10):773-84, <http://dx.doi.org/10.1016/j.tics.2016.08.003>.
186. Haigh, S.M., Heeger, D. J., Heller, L., Gupta, A., Minshew, N. J. and **Behrmann, M.** (2016). No Difference in Cross-Modal Attention or Sensory Discrimination Thresholds in Autism and Matched Controls. *Vision Res.*, 121:85-94. PMID: 26940029
185. Gabay, Y., Gabay, S. and **Behrmann, M.** (2016). Line and word bisection deviation are equivalent across Hebrew and English normal and dyslexic readers, *Brain and Cognition*, 150, 143-152.
184. Whyte, E. M., **Behrmann, M.**, Minshew, N. J., Garcia, N., Elbich, D. & Scherf, K. Suzanne. (2016). Animal, but not human, faces engage the distributed face network in adolescents with autism, *Developmental Science*, 19, 2, 306-317. PMID: 25873084.
183. Nestor, A., Plaut, D. C. and **Behrmann, M.** (2016). Feature-based face representations and image reconstruction from behavioral and neural data, *Proceedings National Academy of Science*, 113(2): 416-21, pii: 201514551. PMID: 26711997.
182. Haigh, S., Dinstein, I., Heeger, D. Minshew, N. and **Behrmann, M.** (2016). Overresponsiveness and greater variability in roughness perception in autism, *Autism Research*, 9(3):393-402. doi: 10.1002/aur.1505. PMID:26011310
181. Harris, H. Israeli, D., Minshew, N. J., Bonne, Y. Heeger, D. J. **Behrmann, M.***, Sagi, D*. (2015). Perceptual learning in autism: over-specificity and possible remedies, *Nature Neuroscience*, 18(11): 1574-6. (shared last authors). doi: 10.1038/nn.4129. PMID:26436903.

180. Kim, J. G., Aminoff, E., **Behrmann, M.** and Kastner, S. (2015). The neural basis of developmental topographic disorientation, *Journal of Neuroscience*, 35(37):12954-12969; doi:10.1523/JNEUROSCI.0640-15.2015
179. Freud, E., Ganel, T., Avidan, G. and **Behrmann, M.** (2015). Independent object 3D structure representation in the dorsal stream: Evidence from visual agnosia, *Cerebral Cortex*, pii: bhv229. [Epub ahead of print PMID: 26483400]. PMID: [26483400](#) DOI:[10.1093/cercor/bhv229](#)
178. Klatzky, R., Holt, L. and **Behrmann, M.** (2015) Representation of Women in Cognition. *Cognition*. 2015 Aug;141:170-1. doi: 10.1016/j.cognition.2015.03.010. PMID: 25903857
177. Zachariou, V., Nikas, C. V., **Behrmann, M.**, Klatzky, R. and Ungerleider, L. G. (2015). Common Neural Mechanisms for Between-object and Within-object Location Processing, *Journal of Cognitive Neuroscience*, 27(12):2442-61.
176. Dinstein, I., Heeger, D. and **Behrmann, M.** (2015). Neural variability: friend or foe? *Trends in Cognitive Science*, 19, 6, 322-328.
175. Gilaie-Dotan, S., Saygin, A. P., Lorenzi, L., Rees, G. and **Behrmann, M.** (2015). Ventral visual pathway integrity is not critical for the perception of biological motion, *Proceedings National Academy of Science*, 112(4):E361-70. doi: 10.1073/pnas.1414974112.
174. Scherf, K.S., Elbich, D., Minshew, N. J., and **Behrmann, M.** (2015). Individual Differences in Symptom Severity and Behavior Predict Neural Activation During Face Processing in Adolescents with Autism. *Neuroimage Clinical*, 7, 53-67.
173. Hahamy, A., **Behrmann, M.** and Malach, R. (2015). The idiosyncratic brain: distortion of spontaneous connectivity patterns in autism spectrum disorder, *Nature Neuroscience*, 18(2):302-9. PMID: 25599222
172. Ossowski, A. and **Behrmann, M.** (2015). Left hemisphere specialization for word reading is not contingent on a left lateralized bias for high spatial frequency visual information. *Cortex*, pii: S0010-9452, PMID: 25639933.
171. **Behrmann, M.** and Plaut, D. C. (2015). A vision of graded hemispheric specialization. *The Year in Cognitive Neuroscience, Annals of the New York Academy of Sciences*, Nov;1359:30-46. ISSN0077-8923.
170. Greenberg, A., Cutrone, E., Rosen, M. and **Behrmann, M.** (2015). The effects of visual search efficiency on object-based attention, *Attention, Perception and Performance*, 77(5):1544-57.
169. Dundas, E., Plaut, D. C. and **Behrmann, M.** (2015). Variable left-hemisphere language and orthographic lateralization reduces right-hemisphere face lateralization. *Journal of Cognitive Neuroscience*, 27, 5, 913-925. PMID: 25390197.
168. Haigh, S., Dinstein, I. Heeger, D. and **Behrmann, M.** (2015). Cortical variability in the sensory-evoked response in autism, *Journal of Autism and Developmental Disorders*, 45, 5 (2015),1176-1190. PMID: 25326820.
167. Haar, S., Berman, S., **Behrmann, M.**, and Dinstein, I. (2014). Anatomical abnormalities in autism? *Cerebral Cortex*, 26, 4, 144-1452, PMID: 25316335.
166. Liu, T. and **Behrmann, M.** (2014). Impaired holistic processing of left-right composite faces in congenital prosopagnosia. *Frontiers in Psychology*, doi: 10.3389/fnhum.2014.00750, PMID: 25324755.
165. Liu, T., Hayward, W., Oxner, M., and **Behrmann, M.** (2014). Holistic processing for left-right composite faces in Chinese and Caucasian observers. *Visual Cognition*, 22, 8, 1050-1071. DOI: 10.1080/13506285.2014.944613

164. Nishimura, M., Scherf, K. S., Valentinos, Z., Tarr, M. J. and **Behrmann, M.** (2014). Size Precedes View: Developmental Emergence of Invariant Object Representations in LOC, *Journal of Cognitive Neuroscience*, (3):474-91, PMID: 25244115
163. Gabay, S., Burlingham, C. and **Behrmann, M.** (2014). The nature of face representations in subcortical regions, *Neuropsychologia*, 59:35-46.
162. Zachariou, V., Klatzky, R. and **Behrmann, M.** (2014). Ventral and Dorsal Visual Stream Contributions to the Perception of Object Shape and Object Location, *Journal of Cognitive Neuroscience*, (1):189-209.
161. Avidan, G. and **Behrmann, M.** (2014). Structural and functional impairment of the face processing network in congenital prosopagnosia. *Frontiers in Bioscience*, (special issue entitled: 'Familiar people recognition disorders'), 6, 236-257.
160. Habekost, T., Petersen, A., Starrfelt, R., and **Behrmann, M.** (2014). Perceptual and post-perceptual processing of letters and words in pure alexia. *Cognitive Neuropsychology*, 7:1-24.
159. Dundas, E., Plaut, D. C. and **Behrmann, M.** (2014). An ERP investigation of the co-development of hemispheric lateralization of face and word recognition, 61, 315-323. *Neuropsychologia*, 10.1016/j.neuropsychologia.2014.05.006.
158. Gabay, S. and **Behrmann, M.** (2014). Attentional dynamics mediated by subcortical mechanisms. *Attention Perception and Psychophysics*. 76(8):2375-88. doi: 10.3758/s13414-014-0725-0.10.3758/s13414-014-0725-0. PMC4231006/
157. Gabay, S., Nestor, A., Dundas, E. and **Behrmann, M.** (2014). Monocular Advantage for Face Perception Implicates Subcortical Mechanisms in Adult Humans. *Journal of Cognitive Neuroscience*, 26(5): 927-37. PMID: 24236767
156. Scherf, K. S., Thomas, C., Doyle, J. and **Behrmann, M.** (2014). Emerging structure-function relations in the developing face processing system. *Cerebral Cortex*, 24: 2964-2980. doi: 10.1093/cercor/bht152. Epub 2013 Jun 13.
155. **Behrmann, M.** and Plaut, D. C. (2014). Bilateral hemispheric processing of words and faces: evidence from word impairments in prosopagnosia and face impairments in pure alexia. *Cereb Cortex*, 24(4), 1102-1118. PMID: 23250954
154. Grubb, M. A., **Behrmann, M.**, Egan, R., Minshew, N., Carrasco, M. and Heeger, D. (2013). Exogenous spatial attention is intact in adults with autism spectrum disorder: evidence from contrast sensitivity, crowding, and visual search, *Journal of Vision*, 13(14): 9,1-13.
153. Plaut, D. C. and **Behrmann, M.** (2013). Beyond neuropsychological dissociations in understanding face and word representations: reply to Susilo and Duchaine, *Trends in Cognitive Science*, 7(11):545. doi: 10.1016/j.tics.2013.09.005.
152. Gilae-Dotan, S., Saygin, A. P., Lorenzi, L., Egan, R., Rees, G. and **Behrmann, M.** (2013). The role of human ventral visual cortex in motion perception, *Brain*, 136, 2784-2798.
151. **Behrmann, M.** and Plaut, D. C. (2013). Distributed circuits, not circumscribed centers, mediate visual recognition. *Trends in Cognitive Science*, 17(5):210-9.
150. Avidan, G., Hadj-Bouziane, F., Liu, N., Ungerleider, L., **Behrmann, M.** (2013). Selective dissociation between core and extended regions in the face processing network in congenital prosopagnosia. *Cerebral Cortex*, 24(6):1565-78.
149. Grubb, M. A., **Behrmann, M.**, Egan, R., Minshew, N., Carrasco, M. and Heeger, D. (2013). Endogenous spatial attention: Evidence for intact functioning in adults with autism, *Autism Research*, doi: 10.1002/aur.1269. PMID: 23427075. PMCID: PMC3661738; NIHMSID: NIHMS430159
148. Nestor, A., Plaut, D. and **Behrmann, M.** (2013). Orthographic form processing - A multivariate investigation of its neural basis, *Cerebral Cortex*, 23: 1673-1684. PMID: 22693338

147. Dundas, E., Plaut, D. and **Behrmann, M.** (2013). The joint development of hemispheric lateralization for words and face, *Journal of Experimental Psychology: General*, 142(2): 348-58. doi: 10.1037/a0029503. PMID: 22866684.
146. Nestor, A., Plaut, D.C. and **Behrmann, M.** (2013). Face space architecture: independent component analysis accounts for the structure of human face representations, *Psychological Science*, 1;24(7):1294-300. doi: 10.1177/0956797612464889. PMID:23670883
145. Gonzalez, C., Martin, J. and **Behrmann, M.** (2013). Practice makes improvement: How autistic adults out-perform others in luggage screening, *Journal of Autism and Developmental Disorders*, 42, 3, 2259-68.
144. Said, C., Heeger, D., Egan, R., Minshew, N. and **Behrmann, M.** (2012). Normal Binocular Rivalry in Autism: Implications for the Excitation/Inhibition Imbalance Hypothesis. *Vision Research*, 77C:59-66. doi: 10.1016/j.visres.2012.11.002.
143. Dinstein, I., Heeger, D. J., Lorenzi, L., Minshew, N. J., Malach, R. and **Behrmann, M.** (2012). Unreliable evoked responses in autism, *Neuron*, 75, 981-991. PMID: 22998867
142. Scherf, K. S., **Behrmann, M.** and Dahl, R. (2012). Facing changes & changing faces in adolescence: investigating the neural basis of key developmental shifts in social-information processing, *Developmental Cognitive Neuroscience*, 2, 2, 199-219. PMID: 22483070.
141. Kimchi, R., **Behrmann, M.** and Avidan, G. (2012). Altered representational basis for faces in congenital prosopagnosia: Features, configurations or both? *Cognitive Neuropsychology*, Vol. 29, Nos. 5–6, 447–463, <http://dx.doi.org/10.1080/02643294.2012.752723>
140. Shomstein, S., Kravitz, D. and **Behrmann, M.** (2012). Attentional control: Temporal relationships within the fronto-parietal network, *Neuropsychologia*, 50, 1202-1210, PMID:22386880.
139. Phillips. J. S., Greenberg, A. S., Pyles, J. A., Pathak, S. K., **Behrmann, M.**, Schneider, W., Tarr, M. J. (2012). Co-analysis of brain structure and function using fMRI and Diffusion-weighted imaging, *JoV*, doi:pii: 4125. 10.3791/4125. PMID: 23169034
138. Greenberg, A., Verstynen, T., Chiu, Y-V., Yantis, S., Schneider, W. and **Behrmann, M.** (2012). Spatiotopic Structural Connectivity Underlying Visual Attention, *J. Neuroscience*, 32(8, #4286):2773-2782. [associated press release at <http://bit.ly/wUhuFh>]. PMID: 22357860
137. Kravitz, D. and **Behrmann, M.** (2011). Space-, object-, and feature-based attention interact to organize visual scenes. *Attention Perception and Psychophysics*, 73(8):2434-47. PMID: 22006523.
136. Nestor, A., Plaut, D. C. and **Behrmann, M.** (2011). Unraveling the distributed neural code of facial identity through spatiotemporal pattern analysis, *PNAS*, 108, 24, 9998-10003. PMID: 21628569
135. Konen, C., **Behrmann, M.** and Nishimura, M. Kastner, S. (2011). The functional neuroanatomy of object agnosia: a case study, *Neuron*, 71, 49-60. PMID: 21745637
134. Dinstein, I., Eyer, L., Malach, R., **Behrmann, M.**, Courchesne, E. and Pierce, K. (2011). Disrupted neural synchronization in toddlers with autism, *Neuron*, 70, 1218-1225. PMID: 21689606
133. Starrfelt, R. and **Behrmann, M.** (2011). Number reading in pure alexia – A review, *Neuropsychologia*, 49, 9, 2283-2298.
132. Vasquez, B. P., Buck, B.H., Black, S. E., Leibovitch, F. S., Lobaugh, N. J., Caldwell, C. B. and **Behrmann, M.** (2011). Deficits in covert orienting of visual attention in Alzheimer's disease: Relationship to HMPAO SPECT measures of cortical hypoperfusion, *Neuropsychologia*, 49, 7, 1741-1750.

131. Avidan, G., Tanzer, M. and **Behrmann, M.** (2011). Impaired holistic processing in congenital prosopagnosia, *Neuropsychologia*, 49, 9, 2541-2552.
130. Scherf, K. S., Luna, B., Avidan, G. and **Behrmann, M.** (2011). 'What' Precedes 'Which': Developmental Neural Tuning in Face- and Place-Related Cortex, *Cerebral Cortex*, 21, 1963-1980. PMID: 21257673
129. Plaut, D. and **Behrmann, M.** (2011). Complementary neural representations for faces and words: A computational exploration. *Cognitive Neuropsychology*, 28, 251-275.
128. Thomas, C., Humphreys, K., Jung, K. J., Minshew, N. and **Behrmann, M.** (2011). The anatomy of the callosal and visual association pathways in autism: a DTI tractography study, *Cortex*, 47, 7, 863-873 (NIHMS227357)F (PMC3020270).
127. Bechtel, W., **Behrmann, M.**, Chater, N., Glushko, R. J., Goldstone, R. L. and Smolensky, P. (2010). The Rumelhart Prize at 10. *Cognitive Science*, 34, 713-715.
126. Dinstein, I., Thomas, C., Humphreys, K., Minshew, N., **Behrmann, M.** and Heeger, D. (2010). Normal movement selectivity in autism, *Neuron*, 13;66(3):461-9. PMID: 20471358
125. **Behrmann, M.**, Shomstein, S. and Kimchi, R. (2010). Conscious awareness of methodological choices: Reply to Milberg and McGlinchey. *Attention, Perception and Performance*, 72,3, 622-627. PMID: 21494572
124. Cate, A. and **Behrmann, M.** (2010). Perceiving shape from 3D concavities: "figural grounds?", *Attention, Perception and Performance*, 72, 1, 153-167. PMID: 20045886
123. Nishimura, M., Doyle, J. and **Behrmann, M.** (2010). Probing the face-space of individuals with prosopagnosia, *Neuropsychologia*, 48, 1828-1841. PMID: 20227431
122. **Behrmann, M.** and Nishimura, M. (2010). Agnosia, WIREs: *Cognitive Science*. 1, 203-213.
121. Scherf, S., Luna, B., Minshew, N. and **Behrmann, M.** (2010). Location, location, location: alterations in the functional topography of face- but not object- or place-related cortex in adolescents with autism, *Frontiers in Human Neuroscience*, 4-26. PMID: 20631857
120. Jung, K. J., Peng, H., Zhao, T., Avidan, G. and **Behrmann, M.** (2010). Recovery of signal loss due to an in plane susceptibility gradient in the gradient echo EPI through acquisition of extended phase-encoding lines, *Magnetic Resonance in Medicine*, 28, 777-783.
119. Shomstein, S., Kimchi, R., Hammer, M. and **Behrmann, M.** (2010). Perceptual grouping operates independent of attentional selection. *Attention, Perception and Performance*, 72, 3, 607-618. PMID: 20348567
118. Shomstein, S., Lee, J. and **Behrmann, M.** (2010). Top-down and bottom-up attentional guidance: investigating the role of the dorsal and ventral parietal cortices. *Experimental Brain Research*, 206, 2, 197-208. PMID: 20571784
117. Nishimura, M., Scherf, S. and **Behrmann, M.** (2009). Development of object recognition in humans. *F1000 Biology report*, 1. <http://f1000biology.com/reports/10.3410/B1-56/>. PMID: 20948628
116. Hasson, U., Avidan, G., Gelbard, H., Vallines, I., Harel, M., Minshew, N. and **Behrmann, M.** (2009). Shared and idiosyncratic cortical activation patterns in autism revealed under continuous real-life viewing conditions. *Autism Research*, 2, 220-231. (NIHMS149149) (PMC2775929)
115. Avidan, G. and **Behrmann, M.** (2009). Functional MRI reveals compromised neural integrity of the face processing network in congenital prosopagnosia, *Current Biology*, 19, 13, 1146-1150. (NIHMS 116166) (PMC2711224)

114. Mycroft, R. H, **Behrmann, M.** and Kay, J. M. (2009). Visuo-perceptual impairments underlying letter-by-letter reading. *Neuropsychologia*, 47, 1733-1744.
113. Scherf, K. S., **Behrmann, M.**, Kimchi, R. and Luna, B. (2009). Emergence of global shape processing continues through adolescence, *Child Development*, 80, 1, 162-177. PMID: 19236399
112. Thomas, C., Avidan, G., Humphreys, K., Jung, K. J. Gao, F. and **Behrmann, M.** (2009). Reduced structural connectivity in ventral visual cortex in congenital prosopagnosia, *Nature Neuroscience*, 12, 1, 29-31.
111. Leff, A. P. and **Behrmann, M.** (2008). Treatment of reading impairment after stroke. *Current Opinion in Neurology*, 21, 644-648.
110. Scherf, K. S., **Behrmann, M.**, Kimchi, R., Minshew, N. and Luna, B. (2008). Missing the big picture: Impaired development of global shape processing in autism. *Autism Research*, 1, 114-129. PMID: 19360658
109. Humphreys, K., Hasson, U., Avidan, G., Minshew, N. and **Behrmann, M.** (2008). Cortical patterns of category-selective activation for faces, places & objects in adults with autism, *Autism Research*, 1, 52-63. (NIHMS141251) (PMC2765685)
108. Thomas, C., Moya, L., Avidan, G., Humphreys, K., Jung, K.J., Peterson, M. and **Behrmann, M.** (2008). Reduction in white matter connectivity, revealed by DTI, may account for age-related changes in face perception, *Journal of Cognitive Neuroscience*, 20, 2, 268-284.
107. Shomstein, S. and **Behrmann, M.** (2008). Object-based attention: strength of object representation and strategic scanning, *Perception and Psychophysics*, 70, 1, 132-144. PMID: 18306967
106. Scherf, K. S., **Behrmann, M.**, Minshew, N. and Luna, B. (2008). Atypical development of faces and greebles in autism, *Journal of Experimental Child Psychiatry and Psychology*, 49(8, #4286): 838-4. PMID: 18422548
105. Dinstein, I., Thomas, C., **Behrmann, M.** and Heeger, D. (2008) A mirror up to nature. *Current Biology*, 18, 1, R13-18. PMID:18177704
104. Avidan, G. and **Behrmann, M.** (2008). Implicit familiarity processing in congenital prosopagnosia, *Journal of Neuropsychology*, 2, 141-164.
103. Kravitz, D. and **Behrmann, M.** (2008). Interactions of space- and object-based attentional selection, *Journal of Experimental Psychology: Human Perception and Performance*, 34, 2, 298-309.
102. **Behrmann, M.** and Williams, P. (2007). Impairments in part-whole representations of objects in two cases of integrative visual agnosia, *Cognitive Neuropsychology*, 24, 7, 701-730.
101. Scherf, K. S., **Behrmann, M.**, Humphreys, K. and Luna, B. (2007). Visual category-selectivity for faces, places, and objects emerges along different developmental trajectories, *Developmental Science* 10, 4, 15-30. PMID: 17552930
100. Humphreys, K., Avidan, G. and **Behrmann, M.** (2007). A detailed investigation of facial expression processing in congenital prosopagnosia as compared to acquired prosopagnosia. *Experimental Brain Research*, 176, 2, 356-373.
99. **Behrmann, M.**, Gao, F., Avidan, G. and Black, S. E. (2007). Structural imaging reveals anatomical alterations in inferotemporal cortex in congenital prosopagnosia, *Cerebral Cortex*, 17, 10, 2354-63.
98. Humphreys, K., Minshew, N., Leonard, G. and **Behrmann, M.** (2007). A fine-grained analysis of facial expression processing in high functioning adults with autism, *Neuropsychologia*, 45, 4, 685-95.

97. Shomstein, S. and **Behrmann, M.** (2006). Cortical systems mediating visual attention to both objects and spatial locations. *Proceedings National Academy of Science*, 103, 30, 11387-11392. PMID: 16840559
96. **Behrmann, M.**, Peterson, M. A., Moscovitch, M. and Suzuki, S. (2006). Integrative agnosia: deficit in encoding relations between parts, *Journal of Experimental Psychology: Human Perception and Performance*, 32, 5, 1169-1184.
95. **Behrmann, M.**, Thomas, C. and Humphreys, K. (2006). Autism: seeing it differently. *Trends in Cognitive Science*, 10, 6, 258-264.
94. Philbeck, J. W., **Behrmann, M.**, Levy, L. and Biega, T. (2006). Asymmetrical perception body rotation after unilateral vestibular cortex injury. *Neuropsychologia*, 44, 10, 1878-1890.
93. Geng, J. J. and **Behrmann, M.** (2006). Competition between simultaneous stimuli modulated by location probability in hemispatial neglect, *Neuropsychologia*, 44, 7, 1050-1060.
92. Rosenthal, O. and **Behrmann, M.** (2006). Acquiring long-term high-level visual representations following extensive extrastriate damage, *Neuropsychologia*, 44, 5, 799-815.
91. Geng, J. J. and **Behrmann, M.** (2006). Spatial probability as an attentional bias in visual search, *Perception and Psychophysics*, 67, 7, 1252-1268.
90. **Behrmann, M.**, Avidan, G., Leonard, G., Kimchi, R., Luna, B., Humphreys, K. and Minshew, N. (2006). Configural processing in autism and its relation to face processing, *Neuropsychologia*, 44, 1, 110-129.
89. Ravizza, S., **Behrmann, M.** and Fiez, J. (2005). Right parietal contributions to verbal working memory, *Neuropsychologia* 43, 14, 2057-2067.
88. **Behrmann, M.**, Avidan, G., Marotta, J. J. and Kimchi, R. (2005). Detailed exploration of face-related processing in congenital prosopagnosia: 1. Behavioral findings. *Journal of Cognitive Neuroscience*, 17, 7, 1130-1149.
87. Avidan, G., Hasson, U., Malach, R. and **Behrmann, M.** (2005). Detailed exploration of face-related processing in congenital prosopagnosia: 2. Functional neuroimaging findings. *Journal of Cognitive Neuroscience*, 17, 7, 1150-1167.
86. Kimchi, R., Hadad, B., **Behrmann, M.** and Palmer, S. (2005). Microgenesis and ontogenesis of perceptual organization: Evidence from global and local processing of hierarchical stimuli. *Psychological Science*, 16, 4, 282-290.
85. **Behrmann, M.** and Avidan, G. (2005). Congenital prosopagnosia: Face-blind from birth. *Trends in Cognitive Science*, 9, 4, 180-187.
84. **Behrmann, M.**, Marotta, J. J., Gauthier, I., Tarr, M. J., McKeef, T. (2005). The neural correlates of behavioral change in visual agnosia: consequences of expertise training with Greebles. *Journal of Cognitive Neuroscience*, 17, 4, 554-568.
83. **Behrmann, M.**, Geng, J. J. and Shomstein, S. (2004). Parietal cortex and attention. *Current Opinion in Neurobiology*, 14, 2, 212-217. PMID:15082327
82. Gauthier, I., **Behrmann, M.** and Tarr, M. J. (2004). Are Greebles like faces? Using the neuro-psychological exception to test the rule. *Neuropsychologia*, 42, 14, 1961-1970.
81. Baker, C., Olson, C. and **Behrmann, M.** (2004). Role of attention and perceptual grouping in visual statistical learning. *Psychological Science*, 15, 7, 460-466.
80. **Behrmann, M.**, Ebert, P., and Black, S. E. (2004). Hemispatial neglect and visual search: a large scale analysis from the Sunnybrook Stroke study. *Cortex*, 40, 247-264.

79. Philbeck, J. W., **Behrmann, M.**, Levy, L., Potoicchio, Jr., S. J., & Caputy, A. J. (2004). Path integration deficits during linear locomotion after human medial temporal lobectomy. *Journal of Cognitive Neuroscience*, 16, 4, 510-520.
78. Marotta, J. J. and **Behrmann, M.** (2004). Patient Schn: Has Goldstein and Gelb's case withstood the test of time? *Neuropsychologia*, 42, 5, 633-638.
77. McKeeff, T. J. and **Behrmann, M.** (2004). Relating naming latency and covert processing in pure alexia. *Cognitive Neuropsychology*, 21(2/3/4), 443-458.
76. **Behrmann, M.** and Ewell, C. (2003). Expertise in tactile object recognition. *Psychological Science*, 14, 5, 480-486.
75. Marotta, J. J., McKeeff, T. and **Behrmann, M.** (2003). Hemispatial neglect: Its effects on visual perception and visually-guided grasping. *Neuropsychologia*, 41(9), 1262-1271.
74. **Behrmann, M.** and Kimchi, R. (2003). What does visual agnosia tell us about perceptual organization and its relationship to object perception? *Journal of Experimental Psychology: Human Perception and Performance*, 29,1, 19-42.
73. Baker, C. I., **Behrmann, M.**, and Olson, C. R. (2002). Impact of visual discrimination training on the representation of parts and wholes in monkey inferotemporal cortex. *Nature Neuroscience*, 5, 11, (November) 1210-1216 (see Representing whole objects: temporal neurons learn to play their parts pp 1105 – 1106 Charles E. Connor. News and Views.)
72. **Behrmann, M.**, Black, S. E., McKeeff, T. and Barton, J. J. S. (2002). Oculographic analysis of word reading in hemispatial neglect. *Physiology and Behavior*, 77, 4-5, 613-619.
71. Geng, J. J. and **Behrmann, M.** (2002). Implicit cueing by statistical contingencies affects visual search in normal participants and patients with hemispatial neglect. *Psychological Science*, 13, 6, 520-525.
70. Cate, A. and **Behrmann, M.** (2002). Spatial and temporal influences on extinction in parietal patients. *Neuropsychologia*, 40, 13, 2206-2225.
69. Hasson, U., Levy, I., **Behrmann, M.**, Hendler, T., Malach, R. (2002). Eccentricity bias as an organizing principle for human high-order object areas. *Neuron*, 34, 479-490.
68. Marotta, J. J., McKeeff, T. J. and **Behrmann, M.** (2002). The effects of inversion and rotation on face processing in prosopagnosia. *Cognitive Neuropsychology*, 19, 1, 31-47.
67. Zemel, R. S., **Behrmann, M.**, Mozer, M. C. and Bavelier, D. (2002). Experience-dependent perceptual grouping and object-based attention. *Journal of Experimental Psychology: Human Perception and Performance*, 28, 1, 202-217.
66. Fleming, J., Klatzky, R. and **Behrmann, M.** (2002). Time course of planning for object and action parameters in visually-guided manipulation. *Visual Cognition*, 9, 4/5, 502-527.
65. **Behrmann, M.**, Ghiselli-Crippa, T., Sweeney, J., Dimatteo, I. and Kass, R. (2002). Mechanisms underlying spatial representation revealed through studies of hemispatial neglect. *Journal of Cognitive Neuroscience*, 14, 2, 272-290.
64. **Behrmann, M.**, Ghiselli-Crippa, T., and Dimatteo, I. (2001/2002). Impaired initiation but not execution of leftward saccades to left targets in hemispatial neglect. *Behavioral Neurology*, 13, 39-60.
63. Philbeck, J., **Behrmann, M.** and Loomis, J. (2001). Updating of locations during whole body rotations in patients with hemispatial neglect. *Cognitive, Affective and Behavioral Neuroscience*, 1, 4, 330-343.

62. **Behrmann, M.** and Plaut, D. C. (2001). The interaction of spatial reference frames and hierarchical object representations: Evidence from figure copying in hemispatial neglect, *Cognitive, Affective and Behavioral Neuroscience*, 1, 4, 307-329.
61. Haimson, C. and **Behrmann, M.** (2001). Object-based attention to inferred portions of occluded objects. *Psychonomic Bulletin and Review*, 8, 3, 496-503.
60. Montant, M. and **Behrmann, M.** (2001). Phonological activation in pure alexia. *Cognitive Neuropsychology*, 18, 8, 697-727.
59. **Behrmann, M.**, Shomstein, S., Black, S. E. and Barton, J. J. S (2001). Eye movements of letter-by-letter readers during reading: Effects of word length and lexical variables. *Neuropsychologia*, 39,9, 983-1002. PMID: 11516450
58. Marotta, J. J., Genovese, C., and **Behrmann, M.** (2001). A functional MRI study of face recognition in patients with prosopagnosia, *Neuroreport*, 12, 8, 959-965.
57. Philbeck, J., Klatzky, R. L., **Behrmann, M.**, Loomis, J. M. and Goodridge, J. (2001). Active control of locomotion facilitates nonvisual navigation. *Journal of Experimental Psychology: Human Perception and Performance*, 27, 141-153.
56. Vecera, S., **Behrmann, M.** and Filapek, V. (2001). Attending to the parts of a single object: Part-based selection mechanisms. *Perception and Psychophysics*, 63, 2, 308-321.
55. Montant, M. and **Behrmann, M.** (2000). Pure alexia: A case review. *Neurocase*, 6, 265-294.
54. **Behrmann, M.**, Zemel, R. and Mozer, M. C. (2000). Occlusion, symmetry, and object-based attention: Reply to Saiki (2000). *Journal of Experimental Psychology: Human Perception and Performance*, 26, 4, 1497-1505.
53. Vecera, S., **Behrmann, M.** and McGoldrick, J. (2000). Selective attention to the parts of an object. *Psychonomic Bulletin and Review*, 7, 2, 301-308.
52. Philbeck, J.W., **Behrmann, M.**, Black, S.E., & Ebert, P. (2000). Intact spatial updating during locomotion after right posterior parietal lesions. *Neuropsychologia*, 38, 950-963.
51. **Behrmann, M.** (2000). The mind's eye mapped onto the brain's matter. *Current Directions in Psychological Science*, 9, 2, 50-54.
50. Gauthier, I., **Behrmann, M.** and Tarr, M. (1999). Can face recognition really be dissociated from object recognition? *Journal of Cognitive Neuroscience*, 11, 4, 349-370.
49. **Behrmann, M.** and Haimson, C. (1999). The cognitive neuroscience of visual attention. *Current Opinion in Neurobiology*, 9, 158-163.
48. Foster, J., **Behrmann, M.** and Stuss, D. (1999). Attentional Dysfunction in Alzheimer's Disease. *Neuropsychology*, 13, 1-23.
47. Berry, E.L., Nicolson, R.I., Foster, J.K., **Behrmann, M.** & Sagar, H.J. (1999). Visual search deficits in Parkinson's disease: involvement of the frontal lobes. *Neuropsychologia*, 37, 787-795.
46. **Behrmann, M.** and Tipper, S. P. (1999). Attention accesses multiple spatial frames of reference: Evidence from neglect. *Journal of Experimental Psychology: Human Perception and Performance*, 25, 1, 83-101.
45. **Behrmann, M.** and Meegan, D. (1998). Visuomotor processing in unilateral neglect. *Consciousness and Cognition*, Special Issue (Eds A. D. Milner and M. Goodale), 7, 381-409.

44. Fleming, J. and **Behrmann, M.** (1998). Inducement of altered spatial representations: An analog of hemispatial neglect in normal subjects. *Neuropsychologia*, 36, 5, 469-475.
43. Barton, J. J. S., **Behrmann, M.**, Black, S. E. (1998). Ocular search during line bisection: The effects of hemineglect and hemianopia. *Brain*, 121, 1117-1131.
42. **Behrmann, M.**, Nelson, J. and Sekuler, E. B. (1998). Visual complexity in letter-by-letter reading: "Pure" alexia is not so pure. *Neuropsychologia*, 36,11, 1115-1132.
41. **Behrmann, M.**, Plaut, D. C. and Nelson, J. (1998). A literature review and new data supporting an interactive account of letter-by-letter reading. *Cognitive Neuropsychology*, 15, 7-51.
40. **Behrmann, M.**, Zemel, R. S. and Mozer, M. (1998). Object-based segmentation and occlusion: Evidence from normal subjects and a computational model. *Journal of Experimental Psychology: Human Perception and Performance*, 24,4, 1011-1036.
39. Moscovitch, M., Winocur, G. and **Behrmann, M.** (1997). What is special about face recognition? Nineteen experiments on a person with visual object agnosia and dyslexia but normal face recognition. *Journal of Cognitive Neuroscience*, 9, 5, 555-604.
38. **Behrmann, M.**, Barton, J, Watt, S. and Black, S. E. (1997). Impaired visual search in patients with unilateral neglect: An oculographic analysis. *Neuropsychologia*, 35, 11, 1445-1458.
37. Williams, D. E., Reingold, E. , Moscovitch, M. and **Behrmann, M.** (1997). Patterns of eye movement during parallel and serial visual search tasks. *Canadian Journal of Experimental Psychology*, 51, 2, 151-164.
36. Becker, S., Moscovitch, M., **Behrmann, M.** and Joordens, S. (1997). Long-term semantic priming: A computational account and empirical evidence. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 23, 1059-1082.
35. Patterson, K. E. and **Behrmann, M.** (1997). Frequency and consistency effects in a pure surface dyslexic patient. *Journal of Experimental Psychology: Human Perception and Performance*, 23, 4, 1217-1231.
34. Buck, B., Black, S. E., **Behrmann, M.**, Caldwell, C. and Bronskill, M. (1997). Spatial- and object-based attentional deficits in Alzheimer's disease: Relationship to SPECT measures of parietal perfusion. *Brain*, 120, 1229-1244.
33. Marotta, J., **Behrmann, M.** and Goodale, M. (1997). The removal of binocular cues disrupts the calibration of grasping in patients with visual form agnosia. *Experimental Brain Research*, 116, 1, 113-121.
32. Mapelli, D. and **Behrmann, M.** (1997). The role of color in object recognition: Evidence from visual agnosia. *NeuroCase*, 3, 237-247.
31. Watt, S., Jokel, R. and **Behrmann, M.** (1997). Surface dyslexia in a non-fluent progressive aphasic. *Brain and Language*, 56, 2, 211-223.
30. Vecera, S. and **Behrmann, M.** (1997). Spatial attention does not require preattentive grouping. *Neuropsychology*, 11, 30-43.
29. Tipper, S. P. and **Behrmann, M.** (1996). Object-centered not scene-based visual neglect. *Journal of Experimental Psychology: Human Perception and Performance*, 22, 5, 1261-1278.
28. Sekuler, E. and **Behrmann, M.** (1996). Perceptual cues in pure alexia. *Cognitive Neuropsychology*, 13, 7, 941-974.

27. Foster, J., **Behrmann, M.** and Stuss, D. (1995). Aging and Visual Search: Generalized Cognitive Slowing or Selective Deficits in Attention? *Aging and Cognition*, 2, 4, 279-299.
26. Sorin-Peters, R. and **Behrmann, M.** (1995). Changes in perception of communication abilities of aphasic patients and their families. *Aphasiology*, 9, 6, 565-575.
25. Kosslyn, S. M., **Behrmann, M.** and Jeannerod, M. (1995). Perspectives on the cognitive neuroscience approach to mental imagery. *Neuropsychologia*, 33, 11, 1335-1344.
24. **Behrmann, M.** and McLeod, J. (1995). The rehabilitation of letter-by-letter reading. *Neuropsychological Rehabilitation*, 5, 1/2, 149-180.
23. Ho, J. B.-H., **Behrmann, M.**, and Plaut, D. C. (1995). The interaction of spatial reference frames and hierarchical object representations: A computational investigation of drawing in hemispatial neglect. Proceedings of the 17th Annual Conference of the Cognitive Science Society (pp. 148-153). Hillsdale, NJ: Erlbaum.
22. **Behrmann, M.** and Shallice, T. (1995). Pure alexia: An orthographic not spatial disorder. *Cognitive Neuropsychology*, 12, 4, 409-454.
21. **Behrmann, M.**, Black, S. E. and Murji, S. (1995). The status of spatial attention in the mental architecture: Evidence from neuropsychology. *Journal of Clinical and Experimental Neuropsychology*, 17, 2, 220-242.
20. **Behrmann, M.**, Moscovitch, M. and Winocur, G. (1994). Intact mental imagery and impaired visual perception: Dissociable processes in a patient with visual agnosia. *Journal of Experimental Psychology Human Perception and Performance*, 20, 5, 1068-1087.
19. Moscovitch, M. and **Behrmann, M.** (1994). Coding of spatial information in the somatosensory system: Evidence from patients with right parietal lesions. *Journal of Cognitive Neuroscience*, 6, 2, 151-155.
18. Moscovitch, M., **Behrmann, M.** and Winocur, G. (1994). Do PETS have long or short ears? Mental imagery and neuroimaging. *Trends in Neuroscience*, 17, 7, 292-294.
17. **Behrmann, M.** and Moscovitch, M. (1994). Object-centered neglect in patients with unilateral neglect: Effects of intrinsic left-right coordinates of objects. *Journal of Cognitive Neuroscience*, 6, 1, 1-16.
16. Klein, D., **Behrmann, M.** and Doctor, E. (1994). The evolution of deep dyslexia: Evidence for the spontaneous recovery of the semantic reading route. *Cognitive Neuropsychology*, 11, 5, 579-611.
15. **Behrmann, M.**, Winocur, G. and Moscovitch, M. (1992). Dissociation between mental imagery and object recognition in a brain-damaged patient. *Nature*, 359, 636-637.
14. Mozer, M., Zemel, R., **Behrmann, M.** and Williams, C. (1992). Learning to segment images using dynamic feature binding. *Neural Computation*, 4, 647-672.
13. **Behrmann, M.** and Bub, D. (1992). Surface dyslexia and dysgraphia: Dual routes, a single lexicon. *Cognitive Neuropsychology*, 9, 3, 209-251.
12. **Behrmann, M.**, Moscovitch, M. and Mozer, M. (1991). Directing attention to words and nonwords in normal subjects and in a computational model: Implications for neglect dyslexia. *Cognitive Neuropsychology*. Special Issue on Peripheral and Neglect Dyslexias, 8, 3/4, 213-248.
11. **Behrmann, M.**, Moscovitch, M., Black, S.E. and Mozer, M. (1990). Perceptual and conceptual factors underlying neglect dyslexia: two contrasting case studies. *Brain*, 113, 4, 1163-1183.

10. Mozer, M. and **Behrmann, M.** (1990). On the interaction of selective attention and lexical knowledge: A connectionist account of neglect dyslexia. *Journal of Cognitive Neuroscience*, 2, 96-123.
9. **Behrmann, M.** and Black, S.E. (1990). The evolution of letter-by-letter reading: a single case study. *Brain and Language*, 39, 405-427.
8. **Behrmann, M.** and Lieberthal, T. (1989). Category-specific treatment of a lexical semantic deficit. *British Journal of Disorders of Communication*, 24, 281-299.
7. Black, S.E., **Behrmann, M.**, Bass, K. and Hacker, P. (1989). Selective writing impairment: beyond the allographic code. *Aphasiology*, 3, 3, 265-277.
6. **Behrmann, M.** and Herdan, S. (1987). The case for cognitive neuropsychological remediation. *South African Journal of Communication Disorders*, 37.
5. **Behrmann, M.** (1987). The rites of righting writing: homophone remediation in acquired dysgraphia. *Cognitive Neuropsychology*, 4, 3, 365-384.
4. Irvine, L. and **Behrmann, M.** (1986). The communicative and cognitive deficits following closed-head injury. *South African Journal of Communication Disorders*, 36, 53-56.
3. Penn, C. and **Behrmann, M.** (1986). Towards a classification scheme for aphasic syntax. *British Journal of Disorders of Communication*, 21, 1, 21-38.
2. **Behrmann, M.** (1985). Laryngeal behavior and fluency inducing therapy. *South African Journal Communication Disorders*, 32, 34-37.
1. **Behrmann, M.** and Penn, C. (1984). Non-verbal communication in aphasia. *British Journal of Disorders of Communication*, 19, 155-176.

1b. Refereed Journals: submitted, being revised or in preparation

- Haigh, S., Eack, S. M., Keller, T and **Behrmann, M.** White matter integrity in schizophrenia and autism: abnormal diffusion across the brain in schizophrenia?
- Haigh, S., Robinson, A., Grover, P. and **Behrmann, M.** Visual agnosia: A super-Nyquist approach, in preparation. Special issue of *Vision*, entitled *Visual Perception and its neural mechanisms*, in prep.
- Liu, T. T., Freud, E., Patterson, C. and **Behrmann, M.** Visuo-perceptual function and category-selective organization in children with cortical resections, *submitted manuscript*.
- Nemrodov, D., **Behrmann, M.**, Niemeier, M., Drobotenko, N. and Nestor, A. Shape and surface information: multimodal evidence on individual face processing, *submitted manuscript*.
- Scherf, K. S., Whyte, E., Minshew, N. and **Behrmann, M.** Adolescents with autism learn to individuate multi-part objects holistically: Replicated Longitudinal Intervention Studies, *submitted manuscript*.
- Freud, E., Culham, J., Namdar, G. and **Behrmann, M.** Reduced dissociation between perception and action in childhood, *submitted manuscript*.
- Lerner, Y., Scherf, K. S., Katkov, M., Hasson, U. and Behrmann, M. Age-related differences in inter-subject correlation of cortical activity under natural viewing conditions? *in preparation*.

- Collins, E., Freud, E., Kainerstorfer, J., Cao, J. and **Behrmann, M.** Temporal dynamics of shape processing as revealed by three independent visual pathways, *in preparation*.
- Sevcikova, Z., Plaut, D. C., Behrmann, M., Emmorey, K. and Holcomb, P. J. Characterizing early visual ERP components during recognition of words and common objects (faces, cars) in deaf ASL signers, *in preparation*.
- Holler, D. E., **Behrmann, M.** and Snow, J. C. The format counts: perception of real life size of objects versus images, *in preparation*.
- Liu, T. T., Nestor, A., Patterson, C., Vida, M. D., Pyles, J. A., Yang, Y., Freud, E. and **Behrmann, M.** The developing ventral visual pathway following right occipital and posterior temporal lobectomy, *submitted manuscript*.
- Liu, N., Avidan, G., **Behrmann, M.**, Hadj-Bouziane, F., and Ungerleider, L. Reversible inactivation in non-human primates and impairment in face processing, *in prep*.
- Robinson, A. and **Behrmann, M.** Intermodulation in EEG signals reveals cooperation of mechanisms for face and word recognition, *in prep*.
- Collins, E. G., Freud, E., and **Behrmann, M.** Dorsal cortex representations as revealed by EEG, *in prep*.
- Nishimura, M. and **Behrmann, M.** Is sensitivity to spacing specific to faces? *in prep*.
- Shomstein, S., Greenberg, A. and **Behrmann, M.** The basis of the amelioration of hemispatial neglect using prisms. *in prep*.
- Hahamy, A., Behrmann, M. and Malach, R. How do the blind see: An imaging study of Bonnet syndrome, *in prep*.
- Holzinger, Y., Ullman, S., **Behrmann, M.** and Avidan, G. Minimal Recognizable Configurations (MIRCs) elicit category-selective responses in higher-order visual cortex, *in prep*.

1c. Commentaries

Avidan, G. and **Behrmann, M.** (2002). Correlations between the fMRI BOLD Signal and Perception. *Neuron*, 34, 1-3.

2. Books and Book Chapters

43. **Behrmann, M.** and Vida, M. (2016) Visual object recognition. In J. Serences (Ed Section II Sensation and Perception; J. Wixted Ed.) *Stevens Handbook of Experimental Psychology and Cognitive Neuroscience*. Wiley.
42. **Behrmann, M.** and Minshew, N. (2015). Sensory processing in autism. In M. Leboyer and P. Chaste (Eds.) *Autism Spectrum Disorders: Phenotypes, mechanisms and treatments*. Karger Medical and Scientific Publishers. Basel, Switzerland, p54-67.
41. **Behrmann, M.**, Richler, J. J., Avidan, G. and Kimchi, R. (2014). Holistic Face Perception. In J. Wagemans (Ed.) *Handbook of Perceptual Organization*. Oxford Handbooks Online. 10.1093/oxfordhb/9780199686858.013.010
40. **Behrmann, M.** and Scherf, K. S. (2012). Visual processing in autism. In Pelphrey, K. (Ed.) *Encyclopedia of Autism and Related Disorders*, Springer Publications, New York.
39. **Behrmann, M.** and Hammer, M. (2013). Agnosia. In A. Ettinger and D. Weisbrot (Eds.) *Neurological differential diagnosis*. Cambridge University Press.

38. Dinstein, I. and **Behrmann, M.** (2011). Mirror neuron system in Autism. In Pelphrey, K. (Ed.) *Encyclopedia of Autism and Related Disorders*, Springer Publications, New York.
37. **Behrmann, M.** and Scherf, K. S. (2011). Visual processing in Autism. In F. Volkmar (Ed.) *Encyclopedia of Autism and Related Disorders*, Springer Publications, New York.
36. Minshew, N., Scherf, K. S., **Behrmann, M.**, and Humphreys, K. (2011). Autism as a Developmental Neurobiological Disorder: New Insights from Functional Neuroimaging. In D. Amaral, G. Dawson and D. Geschwind (Eds.) *Autism Spectrum Disorders*, Oxford University Press, chapter 36, pp630-647.
35. **Behrmann, M.**, Avidan, G., Thomas, C. and Nishimura, M. (2011). Impairments in face perception. In A. Calder, J. V. Haxby, G. Rhodes and M. Johnson (Eds.) *Handbook of Face Perception*. Oxford University Press, p799-820.
34. **Behrmann, M.** (2010), "Visual perception and spatial awareness", in McClelland, J. and Lambon-Ralph, M. (eds), *Cognitive Neuroscience: The Biomedical & Life Sciences Collection*, Henry Stewart Talks Ltd, London (online at <http://hstalks.com/?t=BL1052698-Behrmann>)
33. **Behrmann, M.**, Avidan, G., Thomas, C. and Humphreys, K. (2010). Congenital and Acquired Prosopagnosia: Flip sides of the same coin?. In D. Bub, I. Gauthier and M. Tarr (Eds.). *Perceptual Expertise: Bridging Brain and Behavior*. Oxford University Press, p167-196.
32. **Behrmann, M.** and Shomstein, S. (2009). Executive functions: Spatial Cognition. In (Ed.) L. Squire *Encyclopedia of Neuroscience*, volume 9, p173-179. Oxford: Academic Press.
31. **Behrmann, M.** (2009). Fellini has the right idea: Hemispatial neglect in the world. In D. Freedberg (Ed.) *The Neurosciences, Social Sciences, Humanities, and the Arts*. Columbia University Press, NY.
30. Scherf, S., **Behrmann, M.** and Humphreys, K. (2008). Acquisition and disruption of category-specificity in the ventral visual stream. In S. Dickinson et al. (Eds.) *Object Categorization: Computer and Human Vision Perspectives*. Chapter 18, pp348-368. Cambridge University Press, UK.
29. **Behrmann, M.** (2008). Visual agnosia. In B. Goldstein (Ed.) *Encyclopedia of Perception*. Sage Publishers.
28. **Behrmann, M.** and Shomstein, S. (2008). Object-based attention. In B. Goldstein (Ed.) *Encyclopedia of Perception*. Sage Publishers.
27. Avidan, G., Thomas, C. and **Behrmann, M.** (2008). An integrative approach to understanding the psychological and neural basis of congenital prosopagnosia. In M. Jenkins and L. Harris (Eds.) *Cortical Mechanisms of Vision*, Cambridge University Press, p209-235.
26. Klatzky, R., **Behrmann, M.** and Macwhinney, B. (Eds.) (2008). *Embodiment, Ego-Space and Action*. Mahwah, NJ: Erlbaum.
25. **Behrmann, M.** and Geng, J. J. (2006). Attention. In E. E. Smith and S. M. Kosslyn (Eds.) *Cognitive Psychology: Mind and Brain*. Prentice Hall, NY.
24. Kosslyn, S. M., **Behrmann, M.** and Reisberg, D. (2005). Introspection and mechanisms in mental imagery. In R. Davidson (Ed.) *Interactions between Western and Eastern Scientists*. MIT Press, Cambridge, MA.
23. **Behrmann, M.**, Geng, J. J. and Baker, C. I. (2005). Acquisition of long-term visual representations: Psychological and neural mechanisms. In B. Uttl, N. Ohta and C. Macleod (Eds.) *Dynamic cognitive processes: The Fifth Tsukuba International Conference*. Tokyo, Springer Verlag, p1-26.
22. **Behrmann, M.** and Patterson, K. (2004). (Eds.). *Words and Things: Cognitive neuropsychological studies in tribute to Eleanor M. Saffran*. Psychology Press, UK.

21. **Behrmann, M.** (2003). The neuropsychology of perceptual organization. In G. Rhodes and M. Peterson (Eds.) *The perception of faces, objects and scenes: Analytic and holistic processes*. Oxford University Press, NY, p295-334.
20. Geng, J. J. and **Behrmann, M.** (2003). Selective visual attention and visual search: Behavioral and neural mechanisms. In B. Ross and D. Irwin (Ed.) *The Psychology of Learning and Motivation*. Academic Press, NY, p157-184.
19. Kimchi, R., **Behrmann, M.** and Olson, C. (2003). (Eds.) *Perceptual Organization*. Lawrence Erlbaum Associates, Hillsdale, NJ.
18. **Behrmann, M.** and Kimchi, R. (2003). Visual perceptual organization: Lessons from lesions. In R. Kimchi, M., Behrmann and C. Olson (Eds.) *Perceptual Organization*. Lawrence Erlbaum Associates, Hillsdale, NJ, pp337-375.
17. **Behrmann, M.** and Geng, J. (2002). What is 'left' when all is said and done? Spatial coding and hemispatial neglect. In H. O. Karnath, D. Milner and G. Vallar (Eds.) *The Cognitive and Neural Bases of Spatial Neglect*. Oxford University Press, Oxford, pp85-100.
16. Viele, K., Kass, R. E., Tarr, M. J., **Behrmann, M.**, Gauthier, I. (2002). Recognition of faces versus greebles: A case study in model selection. In C. Gatsonis, R.E. Kass, A. Carriquiry, A. Gelman, D. Higdon, D.K. Pauler, I. Verdinelli (Eds.) *Case Studies in Bayesian Statistics*, vol VI. Springer, New York.
15. Marotta, J. J. and **Behrmann, M.** (2002). Agnosia. In V. S. Ramachandran (Ed.) *The Encyclopedia of the Human Brain*. Academic Press, San Diego, CA.
14. Vecera, S. and **Behrmann, M.** (2002). Attention and unit formation: A biased competition account of object-based attention. In T. Shipley and P. Kellmann (Eds.) *From Fragments to Objects: Segmentation and Grouping in Vision*. Elsevier Science.
13. **Behrmann, M.** (2002). The neural basis of neglect. In J. L. McClelland and R. Thompson (Eds.) *International Encyclopedia of the Social and Behavioral Sciences*. Elsevier Science, Limited, UK, p10467-10473.
12. **Behrmann, M.** and Philbeck, J. (2001). Spatial representation and updating: Evidence from neuropsychological investigations In D. R. Montello (Ed.) *Spatial information theory: Foundations of geographic information science*, pages 352-270. Springer-Verlag, Berlin.
11. **Behrmann, M.** and Moscovitch, M. (2001). Face recognition. In F. Boller and J. Grafman (Eds.) *Handbook of Neuropsychology*. 2nd edition. Elsevier Science, North Holland, 181-206.
10. **Behrmann, M.** (2000). Spatial frames of reference and hemispatial neglect. In M. Gazzaniga (Ed.) *The Cognitive Neurosciences*, second edition. MIT Press, Cambridge, MA, chap 45, 651-666.
9. **Behrmann, M.** (1999). Pure alexia: Psychological mechanisms and rehabilitation directions. To appear in R. Klein and P. McMullen (Eds.) *Converging methods for the study of reading and acquired dyslexia*. MIT Press, Cambridge, MA, chapter 6, 153-190.
8. **Behrmann, M.**, Moscovitch, M. and Winocur, G. (1999). Vision and imagery. In G. W. Humphreys (Ed.) *Case studies in the neuropsychology of vision*. Psychology Press, London, chapter 5, 81-110.
7. Patterson, K. E., Plaut, D. C., McClelland, J. L., Seidenberg, M., **Behrmann, M.** and Hodges, J. (1997). Connections and disconnections: A connectionist account of surface dyslexia. In J. Reggia, R. Berndt and E. Ruppini (Eds.) *Neural modelling of brain and cognitive disorders*. World Scientific, New York.

6. **Behrmann, M.**, Kosslyn, S. and Jeannerod, M. (Eds.) (1995). *Mental imagery: Psychological and Neural Mechanisms*. Elsevier Science, North-Holland.
5. **Behrmann, M.** and Tipper, S. P. (1994). Object-based attentional mechanisms: Evidence from unilateral neglect. In C. Umiltà and M. Moscovitch (Eds.) *Attention and Performance XIV: Conscious and nonconscious processing and cognitive functioning*. A Bradford Book, MIT Press, Cambridge, MA, p351-376.
4. **Behrmann, M.** (1994). Neglect dyslexia: Deficit in attention and printed word recognition. In M. Farah and G. Ratcliff (Ed.) *The Neural Bases of Higher-Level Vision*. Lawrence Erlbaum Associates, Hillsdale, NJ, p173-215.
3. Black, S. E. and **Behrmann, M.** (1994). Localization in alexia. In A. Kertesz (Ed.) *Localization and neuroimaging in Neuropsychology*. Academic Press, p331-376.
2. **Behrmann, M.** and Byng, S. (1992). A Cognitive Approach to Neurorehabilitation. In D. Margolin (Ed.) *Cognitive Neuropsychology in Clinical Practice*. Oxford University Press, p327-350.
1. Mozer, M. and **Behrmann, M.** (1992). Reading with attentional impairments: A brain damaged model of neglect and attentional dyslexias. In R. G. Reilly and N. E. Sharkey (Eds.) *Connectionist approaches to natural language processing*. Hillsdale, NJ: Erlbaum Associates, p409-460.

D. PRESENTATIONS

1. Invited papers presented at scientific meetings (last 5 years)

- Behrmann, M.** (2016). Keynote speaker, Shenzhen Neuroscience Symposium, China, December.
- Behrmann, M.** (2016). Invited speaker, 2016 McDonnell Summer Institute in Cognitive Neuroscience.
- Behrmann, M.** (2016). Invited speaker, Gordon conference on Neurobiology of Cognition.
- Behrmann, M.** (2015). Speaker, Concepts, Actions and Objects, Rovereto, Italy, May.
- Behrmann, M.** (2015). Speaker, 4th symposium on Behavioral Neurology, Lucerne, Switzerland, May.
- Behrmann, M.** (2015). Speaker, Vision Science Society, May, Florida.
- Behrmann, M.** (2014). Speaker, Big Data and Neurodevelopmental Disorders, World Economic Forum, Tianjian China.
- Behrmann, M.** (2014). Keynote speaker, Object Perception, Learning, & Attention, Macquarie University, Sydney, Australia.
- Behrmann, M.** (2014). Keynote speaker, Cognitive Neuroscience Society, April, Boston.
- Behrmann, M.** (2014). Keynote speaker, Lake Ontario Visual Science (LOVE), Niagara Falls, February.
- Behrmann, M.** (2013). When neuropsychology and functional imaging do not see eye-to-eye. University of Pittsburgh, Philosophy of Neuroscience meeting, November.
- Behrmann, M.** (2013). Pure alexia, Meeting of Danish research council, Copenhagen.
- Behrmann, M.** (2012). Invited keynote speaker. Eastern Psychological Association. Pittsburgh, PA, March.

Behrmann, M. (2012). Invited speaker. XXX International Congress of Psychology, Cape Town, South Africa, July.

Behrmann, M. (2011). Invited speaker. Altered canonical neural computations in autism. Autism Cell conference, Arlington, November.

2. Papers presented at meetings and symposia (last five years)

Haigh, S. M., Eack, S. M., Keller, T., Minshew, N. J. and **Behrmann, M.** (2018) Abnormal diffusion across the brain in schizophrenia compared to autism. Society for Neurosciences, San Diego, DC.

Nemrodov, D., **Behrmann, M.**, Niemeier, M., Drobotenko, N. and Nestor, A. (2017). Shape and surface: an evaluation of different neuroimaging modalities. Society for Neurosciences, Washington, DC.

Freud, E., Robinson, A. and **Behrmann, M.** (2017). The dorsal pathway contributes to the perception of three-dimensional (3D) structure – Evidence from Continuous Flash Suppression. Society for Neurosciences, Washington, DC.

Venkatesh, P., Grover, P., Robinson, A., **Behrmann, M.**, Krishnan, A., Kelly, S., Weldon, J., Tarr, M. (2017) Fundamental limits, algorithms, and instrumentation for novel non-invasive and minimally-invasive "ultra-resolution" EEG systems. 8th International Workshop on the Statistical Analysis of Neuronal Data, Pittsburgh.

Nah, J.C, Neppi-Modona, M., Strother, L., **Behrmann, M.** and Shomstein, S. (2017). The Effect of Size on Object-Based Attentional Selection. Vision Sciences Society, Naples, Florida, May.

Freud, E., Plaut, D. C., Culham, J. and **Behrmann, M.** (2017). Large scale organization of object processing in the ventral and dorsal pathways. Vision Sciences Society, Naples, Florida, May.

Behrmann, M. and Geskin, J. (2017). Are all objects created equal? Vision Sciences Society, Naples, Florida, May.

Collins, E., Park, J. P., and **Behrmann, M.** (2017). Number in the human subcortex. Vision Sciences Society, Naples, Florida, May.

Tong, T., Nestor, A., Kay, K., Vida, M., Pyles, J., Zhang, X., Patterson, C. and **Behrmann, M.** (2016). The topography of early & higher-order visual cortex in a young patient following temporal lobectomy. Society for Neurosciences, November, San Diego.

Freud, E., Plaut, D. C., Culham, J. and **Behrmann, M.** (2016). Large scale organization of object processing in the ventral and dorsal pathways. Society for Neurosciences, November, San Diego.

Robinson, A., Plaut, D. C. and **Behrmann, M.** (2016). Face processing selectively interferes with word processing during rapid serial visual presentation. Society for Neurosciences, November, San Diego.

Grover, P., Boring, M., Robinson, A., Kelly, S., Weldon, J., Tarr, M., and **Behrmann, M.** (2016). Questioning the self-fulfilling prophecy of EEG's low spatial resolution. COSYNE, Utah.

Freud, E., Ganel, T., Avidan, G. and **Behrmann, M.** (2015). The role of the right-ventral visual stream in the representation of object 3D structure, Vision Sciences Society, Naples, Florida.

Rosenthal, G. Tanzer, M., **Behrmann, M.** and Avidan, G. (2014). Mapping the Topology of the Face Processing Network in Congenital Prosopagnosia. Society for Neurosciences, Washington, November.

- Nestor, A., Liu, T., Patterson, C. and **Behrmann, M.** (2014) Recovery of high-level visual functions in patients with hemispherectomy. Society for Neurosciences, Washington, November.
- Shomstein, S., Uyar, F., Greenberg, A. S. and **Behrmann, M.** (2014). Sensory Processing with Varying Degrees of Attention: Lessons from Parietal Lobe Damage, Society for Neurosciences, Washington, November.
- Hahamy, A., **Behrmann, M.** and Malach, R. (2014) Idiosyncratic inter-hemispheric functional connectivity patterns in autism. Human Brain Mapping.
- Dundas, E., Gabay, Y., Plaut, D. C. and **Behrmann, M.** Altered hemispheric organization for faces and words in developmental dyslexia. Vision Sciences Society, 2014.
- Harris, H., Egan, R., Gupta, A., Minshew, N. J., Bonneh, Y., Heeger, D., Sagi, D. and Behrmann, M. Visual learning in autism. Vision Sciences Society, 2014.
- Avidan, G., Tanzer M. and Behrmann, M. (2014) Structural and functional impairment of the face processing network in congenital prosopagnosia. Vision Sciences Society, Florida.
- Scherf, S., Behrmann, M., Thomas, C., Avidan, G. and Elbich, D. (2014) Structural properties of white matter circuits necessary for face perception. Vision Sciences Society, Florida.
- Nestor, A., Plaut, D. C. and Behrmann, M. Facial identity – an investigation of neural encoding and image reconstruction. Vision Sciences Society, 2014.
- Haar, S., Berman, S., **Behrmann, M.** and Dinstein, I. Anatomical MRI Abnormalities in Autism? IMFAR, 2014.
- Haigh, S. and **Behrmann, M.** (2013). Variable sensory-evoked responses in autism. Society for Neurosciences, San Diego.
- Shomstein, S., Uyar, F., Greenberg, A., Nepi-Modona, M. and **Behrmann, M.** (2013). Improving Quality of Sensory Representations with Prismatic Adaptation. Society for Neurosciences, San Diego.
- Behrmann, M.**, Avidan, G. and Nestor, A. (2013). Multivariate pattern analysis of the face processing network in congenital prosopagnosia. Society for Neurosciences, San Diego.
- Kim, J. G., Aminoff, E., **Behrmann, M.** and Kastner, S. (2013). The neural basis of developmental topographic disorientation. Society for Neurosciences, San Diego.
- Nishimura, M., Scherf, K. S., Zachariou, V., Tarr, M. J. & Behrmann, M. (2013). Development of size- and view-invariance in LOC: an fMR-adaptation study. Vision Sciences Society, Florida.
- Scherf, K. S., Elbich, D., Minshew, N. & **Behrmann, M.** (2013). Core and Extended Face-Processing Regions are Hypoactive in Autism and Related to Symptom Severity. Vision Sciences Society, Florida.
- Greenberg, A. and **Behrmann, M.** (2013). The Effects of Object Closure on Object-Based Attention. Vision Sciences Society, Florida.
- Shomstein, S., Uyar, F., Greenberg, A. and **Behrmann, M.** (2013). Sensory processing with varying degrees attention: Lessons from hemispatial neglect. Vision Sciences Society, Florida.
- Snow, J. C., **Behrmann, M.** and Goodale, M. A. (2013) Neuropsychological evidence for separate shape representations in vision and touch: a study using the Judd variant of the Muller-Lyer illusion. Vision Sciences Society, Florida.
- Behrmann, M.** Plaut, D. and Dundas, W. (2012). The Joint Development of Hemispheric Lateralization for Words and Faces. Meeting of the Psychonomic Society, Minneapolis.

Nestor, A., Plaut, D. and **Behrmann, M.** (2012). Face space – an investigation of its neural basis. Society for Neurosciences, New Orleans.

Aminoff, E., Kim, J., Kastner, S., & **Behrmann, M.** (2012). Psychological and neural mechanisms underlying congenital topographagnosia. Society for Neurosciences, New Orleans.

Scherf, K. S., Luna, B. and **Behrmann, M.** (2012). Developmental changes in the functional organization of neural networks supporting face and object processing. Symposium presentation, Society for Neurosciences, New Orleans.

Avidan, G., Tanzer, M., Hadj-Bouziane, F., Liu, N. Ungerleider, L. and **Behrmann, M.** (2012). Selective dissociation between core and extended regions of the face processing network in congenital prosopagnosia. Symposium presentation, Society for Neurosciences, New Orleans.

Gilaie-Dotan, S., **Behrmann, M.**, Bentin, S., Rees, G. and Saygin, A. P. (2012). Biological motion perception in patients with form processing deficits. Society for Neurosciences, New Orleans.

Lerner, Y., Scherf, K. S., Hasson, U. and **Behrmann, M.** (2012). Developmental Changes in Inter-subject Synchronization of Cortical Activity, Society for Neurosciences, New Orleans.

Shomstein, S., Uyar, F., Greenberg, A. S. and Behrmann, M. (2012). Enhancing sensory responses to neglected information with prismatic adaptation. Society for Neurosciences, New Orleans.

Greenberg, A. S., Uyar, F. Behrmann, M. and Shomstein, S. (2012). Retinotopic information interacts with categorization in human object selective cortex, Society for Neurosciences, New Orleans.

Greenberg, A. S., Rosen, M., Zamora, K., Cutrone, E. and Behrmann, M. (2012). Object-based attention is impervious to nearby targets during visual search. Vision Sciences Society, Naples, Florida, May.

Nestor, A., Behrmann, M. and Plaut, D. (2012). A large scale computational investigation of face space. Vision Sciences Society, Naples, Florida, May.

Said, C., Heeger, D. and Behrmann, M. (2012) Normal binocular rivalry in autism. Vision Sciences meeting, Naples Florida, May.

3. Departmental colloquia/seminars since 2009

2009: University of Delaware Cognitive Science; University of Waterloo Center for Theoretical Neuroscience; New York University; University of London, FIL, National Institutes of Health (LBC); Cheung-Chung University, Taiwan.

2010: University of California San Diego; Princeton University

2011: Ben Gurion University of the Negev, Israel; Haifa University; Weizmann Institute of Science

2012: Georgetown Department of Neuroscience; University of California, San Diego; University of Rochester; consultant Bar Ilan University, Israel, a major new initiative in autism

2013: Indiana University; Research Round Table, University of Pittsburgh; Pure alexia, Meeting of Danish research council, Copenhagen; Johns Hopkins University.

2014: Ohio State University; West Virginia University; Macquarie University, Sydney

2015: George Washington University; University of California, San Diego; University of Toronto; University of Pennsylvania; University of Trento, Italy; SISSA, Trieste, Italy

2016: University of California, San Diego; Arizona State University; Organizer Neurons to Neighborhood, Carnegie Mellon University; ICM - Institut du Cerveau et de la Moelle épinière, Paris

2017: National Institutes of Health; University of California, Davis; Washington University, St Louis; Brown University; York University, Toronto; Statistical Analysis of Neural Data (SAND8), Pittsburgh, PA; University of Maryland; University of Reno.

2018: IBRO-Simons computational neuroscience summer school in South Africa; 2018 Learning Forum Emory University, Atlanta; 2018 installment of the Nornes Lectureship in Neuroscience, Concordia College, Moorhead, MN; International Neuropsychological Symposium, Cassis, France; Montreal Neurological Institute, Canada; 50th anniversary National Eye Institute, Washington DC; Women in Data Science international conference, Pittsburgh PA.

2019: Peking University; Keynote speaker ECVF Leuven, Belgium

E. STUDENT/POSTDOC TRAINING

Graduate students (n=14)

Elliot Collins
Tina Liu Tong
Eva Dundas
Jaime Doyle
Valentinos Zachariou
Linda Moya
Cibu Thomas
Dwight Kravitz
Anthony Cate
Joy Geng
Craig Haimson
James Fleming
Rick Gilmore (with Mark Johnson)
Shaun Vecera (with Martha Farah)

Postdoctoral fellows (n=24)

Erez Freud
Amanda Robinson
Mark Vida
Sarah Haigh
Shai Gabay
Ilan Dinstein
Adam Greenberg
Adrian Nestor
K. Suzy Scherf
Mayu Nishimura
Serena Butcher
Katherine Humphreys
Sarah Shomstein
Lars Strother
Jonathan Marotta
John Philbeck
Galia Avidan
Mark Orr
Orna Rosenthal
Chris Baker (with Carl Olson)
Marie Montant
Therese Huston
Suzanna Becker

Richard Zemel

Lab visitors for semester or more

Rutie Kimchi, University of Haifa
Marco Neppi-Modona, University of Turin
Lisa Saskia Arduino, University of Rome
Marie Montant, CNRS Marseille
Rachel Mycroft, University of Exeter
Michael Granovetter, University of Pittsburgh Medical School
Avital Hahamy, Weizmann Institute of Science, Israel

F. TEACHING

My teaching revolves around two major themes: Biological Foundations of Behavior (sometimes referred to as Physiological or Biological Psychology) and Visual Cognition. I have taught courses at both the undergraduate and graduate level. Several of the classes bring these two themes together (e.g. Introduction to Cognitive Neuroscience and Cognitive Neuropsychology). Examples of courses include:

- a. Introduction to Cognitive Neuroscience
- b. Cognitive Neuropsychology
- c. Biological Foundations of Behavior
- d. Visual Cognition
- e. Cognitive Psychology (graduate level)
- f. Hemispheric specialization

I have also taught upper-level and graduate seminar classes such as:

- a. Attention
- b. Perception and action
- c. Visual cognition
- d. Hemispheric organization

In the news

2018

<http://www.steelers.com/news/article-4/Chuck-Noll-Foundation-announces-grants/c57230fb-abd6-4f22-bb75-ecd061b23438>
<https://www.cmu.edu/dietrich/news/news-stories/2018/march/chuck-noll-foundation-grant.html>
<http://triblive.com/news/healthnow/13335797-74/chuck-noll-foundation-awards-grants-to-concussion-researchers>
<https://www.facebook.com/theNASciences/posts/1227036204104107>
<https://www.cmu.edu/dietrich/news/news-stories/2018/march/women-in-data-science.html>
<https://nornes2018.weebly.com/>

2017

<https://www.cmu.edu/news/stories/archives/2017/december/eeg-study.html>
<https://www.cmu.edu/dietrich/news/news-stories/2017/december/neuroscientists-engineers-new-eeg.html>
<http://www.cmu.edu/dietrich/news/news-stories/2017/march/subcortex-number-processing.html>
<https://www.science-et-vie.com/article/on-denombre-mieux-avec-un-seul-oeil-8183>
<https://www.fatherly.com/?s=behrmann>

2016

<http://www.hollandsentinel.com/news/20161227/scientists-explore-mystery-of-face-recognition>
<http://www.post-gazette.com/news/science/2016/12/27/Carnegie-Mellon-University-describes-the-mystery-of-facial-recognition-by-human-brains/stories/201612260102>

<http://www.cmu.edu/dietrich/news/news-stories/2016/december/brain-map-processes-faces.html>.
<http://www.post-gazette.com/life/seen/2016/09/12/Brain-Gain-Gala-event-held-by-the-Ladies-Hospital-Aid-Society/stories/201609120011>
<http://www.cmu.edu/dietrich/news/news-stories/2016/may/behrmann-braindress.html>
<http://www.post-gazette.com/life/fashion/2016/05/15/Stylebook-snapshot-Brain-dress-by-Carnegie-Mellon-University-professor-Marlene-Behrmann-weaves-together-science-fashion/stories/201605150030>
https://www.facebook.com/carnegiemellonu/?hc_ref=NEWSFEED

2015

<https://www.psychologytoday.com/blog/the-athletes-way/201510/idiosyncratic-brain-synchronization-associated-autism>
<http://www.nature.com/neurosci/neuropod/index-2015-10-29.html> (Podcast)
<https://spectrumnews.org/news/brains-face-detector-lights-up-questions-about-autism-origins/>
<http://www.talkradionews.com/health/2015/10/06/study-repetition-not-good-for-autism-learning.html>
<http://www.cmu.edu/news/stories/archives/2015/october/repetition-and-autism.html>
<http://www.cmu.edu/news/stories/archives/2015/april/behrmann-elected-to-NAS.html>
<http://www.cmu.edu/news/stories/archives/2015/april/autism-awareness-month.html>
<http://www.cmu.edu/news/stories/archives/2015/january/recoginzing-people-and-movements.html>
<http://www.futurity.org/face-blindness-movements-836782/>
<http://www.cmu.edu/news/stories/archives/2015/january/brain-patterns-in-autism.html>
<http://www.sciguru.org/newsitem/18244/researchers-discover-idiosyncratic-brain-patterns-autism>
<http://www.sciguru.org/newsitem/18254/idiosyncratic-brain-patterns-autism>
<http://www.dailymail.co.uk/sciencetech/article-2917133/Autism-uncovered-Brains-people-condition-work-idiosyncratic-ways-claims-groundbreaking-study.html>
http://www.marcumandwallace.org/news_show_national.asp?id=35539
http://www.philly.com/philly/health/mental-health/HealthDay695581_20150119_Those_With_Autism_May_Have_Unique_Brain_Connections__Study_Shows.html
<http://www.tkgnews.com/brains-of-people-with-autism-work-in-idiosyncratic-ways/>
http://www.science20.com/news_articles/idiosyncratic_brain_patterns_in_autism-152412
http://www.huffingtonpost.com/2015/01/21/brain-autism_n_6508194.html
<http://www.sciencedaily.com/releases/2015/01/150121093551.htm>
<https://ucsdneuro.wordpress.com/2015/01/25/same-diagnosis-different-working-brains-rethinking-functional-connectivity-in-autism/>
<http://thetartan.org/2015/2/2/scitech/brain>
http://sfari.org/news-and-opinion/news/2015/noisy-patterns-of-connectivity-mark-autism-brains?utm_source=Autism+research+news+from+SFARI.org&utm_campaign=3aea584960-SFARI_Newsletter_20150203&utm_medium=email&utm_term=0_0a60ccb345-3aea584960-381149562

2014

<http://www.the-scientist.com/?articles.view/articleNo/41326/title/A-Face-to-Remember/>
<http://blogs.discovermagazine.com/neuroskeptic/2014/10/25/autistic-people-normal-brain-anatomy/#.VEwQEOdN2FE>
http://www.cogneurosociety.org/behrmann_qa/
<http://www.cmu.edu/homepage/society/2014/summer/data-science-on-the-world-stage.shtml>

2013

triblive.com/news/alleggheny/4066490-74/face-behrmann-blindness#axzz2UV3eMfiF
<http://www.cnn.com/2013/05/23/showbiz/celebrity-news-gossip/brad-pitt-esquire-face-blindness>
<http://www.inquisitr.com/674873/brad-pitt-says-he-may-suffer-face-blindness-wants-to-get-tested/>
<http://www.prnewswire.com/news-releases/carnegie-mellon-invites-brad-pitt-to-campus-for-face-blindness-diagnosis-research-208463191.html>
<http://www.huffingtonpost.com/marlene-behrmann/>
<http://wesa.fm/post/prosopagnosia-when-face-just-isnt-familiar>
<http://triblive.com/news/alleggheny/4728463-74/brain-university-behrmann#axzz2foHHJSUL>
<http://www.post-gazette.com/stories/news/health/mysteries-of-the-mind-researchers-work-to-unravel-causes-of-autism-706522/>

<http://www.post-gazette.com/stories/news/health/baggage1009roth11-706804/>
<http://www.post-gazette.com/stories/news/health/in-children-hemispherectomy-successfully-treats-seizures-708443/>
 Mandela tributes
http://www.thejewishchronicle.net/view/full_story/24197453/article-South-African-Jews-remember-Mandela
<http://www.post-gazette.com/opinion/2013/12/15/Go-well-Madiba.html>

2012

Greenberg et al. J. Neuroscience 2012
<http://www.sciencedaily.com/releases/2012/02/120221212618.htm>
<http://www.post-gazette.com/pg/12062/1213879-115.stm>
 Dinstein et al. Neuron 2012
<http://www.post-gazette.com/stories/news/science/pitt-cmu-researchers-contribute-to-new-study-on-autism-and-repetitive-behavior-654000/>
<http://www.emilywillinghamphd.com/2012/09/scientist-roundtable-discussion-of.html>
<http://sfari.org/news-and-opinion/news/2012/2018noisy2019-brain-signals-could-underlie-autism-study-says>
<http://www.cmu.edu/homepage/health/2012/fall/autism-connections.shtml>
http://www.nature.com/nature/journal/v490/n7418/full/490008d.html?WT.ec_id=NATURE-20121004

2011

Losing face
<http://www.essentialpublicradio.org/story/2011-12-12/losing-face-9655>
 Discover magazine January/February "The Brain" by Carl Zimmer, p12-13.
 Review of Dinstein, Behrmann and Heeger Neuron paper (2010) https://sfari.org/news/-/asset_publisher/6Tog/content/broken-mirror-concept-of-autism-challenged
 How the Brain Processes Faces: Neural System Responsible for Face Recognition Discovered
http://www.sciencedaily.com/releases/2011/05/110531121319.htm?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+sciencedaily+%28ScienceDaily%3A+Latest+Science+News%29
 Neural mechanisms of object recognition discovered
http://www.sciencedaily.com/releases/2011/07/110713131415.htm?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+sciencedaily+%28ScienceDaily%3A+Latest+Science+News%29
<http://www.nytimes.com/2011/07/19/science/19obbrain.html>
<http://www.post-gazette.com/pg/11200/1161321-115.stm>
 Video abstract: <http://www.cell.com/neuron/abstract/S0896-6273%2811%2900481-8>
 Comment on Dinstein I. et al. *Neuron* **70**, 1218-1225 (2011).
https://sfari.org/news/-/asset_publisher/6Tog/content/brains-of-toddlers-with-autism-out-of-sync
<http://sfari.org/news-and-opinion/conference-news/2011/society-for-neuroscience-2011/autism-brains-have-noisy-signals-imaging-study-finds>

2010

<http://www.cmu.edu/uro/highlights/marlene-behrmann.html>
 "Seeing isn't believing", *New Scientist*, 28 August 2010, p30-33 (Article by David Robson)
<http://www.post-gazette.com/pg/10133/1057866-114.stm>
<http://news.sciencemag.org/sciencenow/2010/05/a-crack-in-the-mirror-neuron-hyp.html>
https://sfari.org/news-and-commentary/open-article/-/asset_publisher/6Tog/content/imaging-study-refutes-mirror-neuron-theory-of-autism?redirect=%2Fnews-and-commentary%2Fall
<http://www.post-gazette.com/pg/10122/1054987-114.stm>
<http://www.post-gazette.com/multimedia/?ClipID=4749760&cmpid=relatedarticle>
 Article and video on face blindness/prosopagnosia
<http://www.post-gazette.com/pg/10059/1039213-60.stm>
 Article on Temple Grandin

2009

http://www.boston.com/news/science/articles/2009/01/19/have_we_met/?s_campaign=8315

Have we met? Jan 19, 2009

http://www.nzz.ch/nachrichten/forschung_und_technik/nicht_jeder_erkennt_gesichter_1.1314005.html

Nicht jeder erkennt Gesichter (German NZZ newspaper) Feb 3, 2009

http://www.nytimes.com/2009/05/26/health/26face.html?_r=1&ref=health

A memory for faces: Extreme Version, New York Times, May 26, 2009

Quoted on p23, 24 in 'Rapt: Attention and the focused life' by W. Gallagher. Penguin, 2009.

Taped in interviews for GoCognitive.com (www.gocognitive.com). Three segments available for public viewing.

2008

<http://abcnews.go.com/Health/MindMoodNews/story?id=6310172&page=1>

Scientists explain mystery of 'face blindness', Nov 24, 2008