CURRICULUM VITAE

Marlene Behrmann (Cohen)
Thomas Stockham Baker University Professor of Cognitive Neuroscience
Carnegie Mellon University, Pittsburgh

A. BIOGRAPHICAL INFORMATION

1. Personal

Date of birth: April 14, 1959 (Johannesburg, South Africa)
Citizenship: South Africa; Canada; United States of America
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Carnegie Mellon University
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2. Degrees

1991 **Ph.D. (Psychology)** University of Toronto. *Advisor*: 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 British Council Fellowship: Birkbeck College, University of London. *Advisor*: Dr. M. Coltheart.
1984 **M.A. (Speech Pathology)** cum laude, University of Witwatersrand, Johannesburg. *Advisor:* 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

2022 Professor, Ophthalmology, University of Pittsburgh Medical School
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: Thomas S. Baker University 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).
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 Dept. 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, University of Witwatersrand.
1982 Speech Pathologist in practice.

4. Honors

2020 Vision Sciences Society's Davida Teller Award exceptional scientific achievements, commitment to equity, and strong history of mentoring.

2020 Fred Kavli Distinguished Career Contributions in Cognitive Neuroscience Award from the Cognitive Neuroscience Society.
2019 Member, American Academy of Arts and Sciences (induction November, Boston)
2019 Rita G. Rudel/Lucy G. Moses Award and Lecture, Columbia University New York
2018 William E. Brown Outstanding MSTP Mentor Award, U. of Pittsburgh and Carnegie Mellon U.
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.
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 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
2000-01 Weston Visiting Professorship, Dept. Computer Science and Applied Mathematics, Weizmann Institute, Israel
2000-01 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.
1993-98 Natural Sciences and Engineering Research Council Women Faculty Award, Canada declined).
1992-97 Medical Research Council of Canada Scholarship. Voluntarily terminated 1994.
1987 Ontario Ministry of Health, Research Personnel Development Scholarship.
1987-98 Natural Sciences and Engineering Research Council Scholarship for Postgraduate Studies.
1995 Ontario, Speech Language and Hearing Assoc. Founders' Award for best paper at OSLA Convention.
1984-85 Isie Smuts Fellowship Award awarded by the South African Assoc. of University Women (Nov '84- March '85).
1984-85 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
Member, Advisory Board, Center for Brain Sciences, Hebrew University, Jerusalem, Israel.
Member, Rothschild Fellowship Committee for Brain, Mind and Language, Israel.

6. Editorial activities

Associate editor, Current Directions in Psychological Science
Editorial board membership: *Open Minds; Journal of Cognitive Neuroscience*; *Cognitive Neuropsychology; Cortex; Annual Review of Psychology; Annual Review of Vision*
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
2022	NIMH, Board of Scientific Counselors
2020-	Member, National Academy of Sciences, Transient Nominating Group member, section representative
2019-	Member, Rothschild Fellowship selection committee
2018	Ad hoc reviewer, NIH Board of Scientific Counsellors
2018	Chair, selection committee for the Troland Award, National Academy of Sciences
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 at Hebrew U., Jerusalem
2016-	External advisory board, VISTA Institute, York University, Toronto

B. CURRENT RESEARCH AWARDS

(pending awards not included)

2022-2025 PI: **M. Behrmann**. National Institutes of Health (NEI).
Title: Reorganization of visual function in patients with posterior cortical research: Selectivity and plasticity. $1,389,972

2021-2024 Co-PI: **M. Behrmann** and D. Plaut
Title: Hemispheric and topographic neural organization of high-level visual representations. National Science Foundation $750,205.00.

2019-2023: PI: J. Gross. Training faculty **M. Behrmann.**
Title: “Interdisciplinary vision sciences training program. T32”. National Eye Institute.

2020 PI: **M. Behrmann**. Simon Innovation Fund, Carnegie Mellon University.

2018-2021: PI: P. Grover; Co-PIs **M. Behrmann**, M. Tarr and S. Kelly. UPMC/CMLH proposal. Automated Title: “Detection and Suppression of “Brain Tsunamis” with Applications to Migraine and Brain Injuries”

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.

Patent (provisional; final pending): Silence localization in brain using non-invasive recordings. Grover, P., Chamanzar, A. and **Behrmann, M.**

Start-up: Precision Neuroscopics (with Shawn Kelly, Pulkit Grover, Jeff Weldon, Etienne Arnelle). Received Phase II NSF funding.

C. PUBLICATIONS

1a. Refereed Journals: published or in press

For all papers, see https://www.ncbi.nlm.nih.gov/myncbi/marlene.behrmann.1/bibliography/public/

255. Haigh, S., Brosseau, P., Eack, S. M., Leitman, D., Salisbury, D. **Behrmann, M**. (2022). Hyper-sensitivity to pitch is related to poorer prosody processing in adults with autism, *Frontiers in Psychiatry, in press,* https://doi.org/10.3389/fpsyt.2022.844830

254. Ayzenberg, V. and **Behrmann, M.** (2022). Object-centered spatial relations: A functional contribution of the dorsal visual pathway to object categorization, *Journal of Neuroscience, https://www.jneurosci.org/content/early/2022/05/03/JNEUROSCI.2257-21.2022.*

253. Sha, Z.., Behrmann, M. … (2022). Subtly altered topological asymmetry of brain structural covariance networks in autism spectrum disorder across 43 datasets from the ENIGMA consortium. *Molecular Psychiatry,* doi: 10.1038/s41380-022-01452-7. Online ahead of print

252. Ahmad, Z., **Behrmann, M.,** Patterson, C. and Freud, E. (2022). Unilateral cortical resection of both visual pathways alters action but not perception in a paediatric patient with pharmaco-resistant epilepsy, *Neuropsychologia, 22, 108182.*

251. **Behrmann, M.** and Avidan, G. (2022). Face perception: Computational insights from phylogeny, *Trends in Cognitive Science,* 26(4):350-363. https://doi.org/10.1016/j.tics.2022.01.006.

250. Hoogman, M. … **Behrmann, M.** (2022). Consortium neuroscience of ADHD and ASD: the ENIGMA adventure. *Human Brain Mapping*, 43, 1, 37-55. doi: 10.1002/hbm.25029. PMID: 32420680

249. Blauch, N. M., **Behrmann, M.** and Plaut, D. C. (2022). A connectivity-constrained computational account of topographic organization in high-level visual cortex, *PNAS,* 119(3):e2112566119. doi: 10.1073/pnas.2112566119.

248. Jones, M. .. **Behrmann, M.** … (2021). Knowledge Gaps for Functional Outcomes After Multilobar Resective and Disconnective Pediatric Epilepsy Surgery: Conference Proceedings of the Patient-Centered Stakeholder Meeting 2019, *Epilepsy Disorders,* Epileptic Disord. 2022 Feb 1;24(1):50-66. doi: 10.1684/epd.2021.1373. PMID: 34806979

247. Hahamy. A., Wilf, M., Rosin, B., **Behrmann, M.** and Malach, R. (2021). How do the blind 'see'? The role of spontaneous brain activity in self-generated perception, *Brain*, 144(1):340-353 doi: 10.1093/brain/awaa384.

246. Chaman Zar, A. R., Haigh, S., Grover, P. and **Behrmann, M.** (2021). Using high resolution EEG and steady state auditory and visual presentation to differentiate migraineurs from controls, Brain Communications, doi:10.1093/braincomms/fcab061.

245. Granovetter, M.C., Ettensohn, L. and **Behrmann, M.** (2021). One hemisphere can support, but is suboptimal, for face and word recognition, *under review*. https://biorxiv.org/cgi/content/short/2020.11.06.371823v1

244. Almasi, R. C. and **Behrmann, M.** (2021). Subcortical regions of the visual system do not process faces holistically, *Brain and Cognition,* 151, 105726.

243. Chaman Zar, A., **Behrmann, M.** and Grover, P. (2021). Neural silences can be localized rapidly using noninvasive scalp EEG, *Nature Communications Biology,* 4, 429. https://doi.org/10.1038/s42003-021-01768-0

242. Avidan, G. and **Behrmann, M.** (2021). The Neural Basis of Face Processing, Including Congenital Prosopagnosia in Volume 6 of the *Annual Review of Vision Science*, Annu. Rev. Vis. Sci. 7:2.1–2.21; https://doi.org/10.1146/annurev-vision-113020-012740

241. Lerner, Y., Scherf, K. S., Katkov, M., Hasson, U. and **Behrmann, M**. (2021). Age-Related Changes in Neural Networks Supporting Complex Visual and Social Processing in Adolescence, *Journal of Cognitive Neuroscience,* 33(11):2215-2230. doi: 10.1162/jocn_a_01756.

240. Maallo, A. M.S., Granovetter, M. C., Freud, E., Kastner, S., Pinsk, M. A., Patterson, C. and **Behrmann, M.** (2020). All hands on deck: Large-scale (re)sculpting of cortical circuits in post-resection children**,** *Scientific Reports,* Dec 9;10(1):21589. doi: 10.1038/s41598-020-78394-z*.*

239. Haigh, S. M., Endevelt-Shapira, Y. and **Behrmann, M.** (2020). Trial-to-trial variability in electrodermal activity to faces in autism, *Autism Research,* 13(12):2083-2093. doi: 10.1002/aur.2377. PMID: 32860323

238. Brosseau, P., Nestor, A. and **Behrmann, M.** (2020). Colorblindness adversely impacts face recognition, *Visual Cognition,* 279-284, https://www.tandfonline.com/doi/full/10.1080/13506285.2020.1788682

237. Snow, J.C., **Behrmann, M.** and Freud, E. (2020). What, if anything, does dorsal cortex contribute to object perception?, Open Mind, *p40-56,* ttps://doi.org/10.1162/opmi_a_00033*.*

236. Boedhoe, O. ..**Behrmann, M.** et al. (2020). Subcortical brain volume, regional cortical thickness and surface area variations across attention-deficit/hyperactivity disorder (ADHD), autism spectrum disorder (ASD), and obsessive-compulsive disorder (OCD) – findings from the ENIGMA-ADHD, -ASD, and -OCD working groups*. American Journal of Psychiatry* :appiajp202019030331. doi: 10.1176/appi.ajp.2020.19030331. Online ahead of print.

235. Granovetter, M. C., Burlingham, C. S., Heeger, D. J. and **Behrmann, M.** (2020). Individuals with autism exhibit atypical pupillary responses under cognitive load, *J. Neuroscience*, 40(19):3815-3826.

234. Collins, E. and **Behrmann, M.** (2020)**.** Exemplar learning reveals the representational origins of expert category perception, *Proc. Nat. Acad. Science*, 117(20):11167-11177.

233. Freud, E. and **Behrmann, M.** (2020). Altered large-scale organization of shape processing in visual agnosia, *Cortex,* 129:423-435. doi: 10.1016/j.cortex.2020.05.009. Epub 2020 May 25. PMID: 32574843

232. Nestor, A., Lee, A. C., Plaut, D. C. and **Behrmann, M**. (2020). Facing image reconstruction: progress, prospects, challenges, *Trends in Cognitive Science*, 24(9):747-759. doi: 10.1016/j.tics.2020.06.006. Epub 2020 Jul 13.

231. Maallo, A. M., Freud, E., Liu, T. T., Patterson, C. and **Behrmann, M.** (2020). Effects of unilateral cortical resection of visual cortex on bilateral human white matter, *Neuroimage,207, 116345.* doi: 10.1016/j.neuroimage.2019.116345.]. PMID: 31712165*.*

230. Blauch, N., **Behrmann, M.** and Plaut, D. C. (2020). Computational insights into human expertise for familiar and unfamiliar face recognition. https://psyarxiv.com/bv5mp/, *Cognition, 203,* 22:104341. doi: 10.1016/j.cognition.2020.104341. Online ahead of print. PMID: 32586632

229. **Behrmann, M.** and Plaut, D. C. (2020). Hemispheric organization in the service of object recognition. *Perception,* doi.org/10.1177/0301006619899049.

228. Sevcikova, Z., Holcomb, P. J., Emmorey, K., **Behrmann, M.,** and Plaut, D. C. (2020). Unique N170 asymmetries to visual words and faces reflect experience-specific adaptation in adult deaf ASL signers, *Neuropsychologia*, Apr;141:107414. doi: 10.1016/j.neuropsychologia.2020.107414. Epub 2020 Mar 3.

227. Postema, M. C., van Rooij, D., … **Behrmann, M**… et al. (2019). Altered structural brain asymmetry in Autism Spectrum Disorder: a large-scale analysis via the ENIGMA Consortium, *Nature Communications,* Oct 31;10(1):4958. doi: 10.1038/s41467-019-13005-8.

226. Haigh, S. M., Chamanzar, A., Grover, P. and **Behrmann, M**. (2019). Cortical hyper-excitability in migraine in response to chromatic patterns, *Headache,* 59(10):1773-1787.

225. Freud, E., Plaut, D. C. and **Behrmann, M.** (2019). Protracted developmental trajectory of shape processing along the two visual pathways, *Journal of Cognitive Neuroscience,* 10: 1589-1597. doi: 10.1162/jocn_a_01434.

224. Liu, T. T., Freud, E., Patterson, C. and **Behrmann, M**. (2019). Visuoperceptual function and category-selective organization in children with cortical resections, *Journal of Neuroscience*, 39, 6299-6314 https://doi.org/10.1523/JNEUROSCI.3160-18.2019

223. Haigh, S., Eack, S. M, Keller, T., Minshew, N. and **Behrmann, M.** (2019). White matter integrity in schizophrenia and autism: abnormal diffusion across the brain in schizophrenia? *Neuropsychologia,* Oct 23;135:107233.

222. Holler, D. E., **Behrmann, M**. and Snow, J. C. (2019). Real-world size coding of solid objects, but not 2-D or 3-D images, in visual agnosia patients with bilateral ventral lesions**,** *Cortex*, 119, 555-568. doi: 10.1016/j.cortex.2019.02.030. PMID 30987739

221. Freud, E., Culham, J., Namdar, G. and **Behrmann, M.** (2019). Object complexity modulates the association between action and perception in childhood, *Journal of Experimental Child Psychology,* 179, 56-72.

220. Holzinger, Y., Ullman, S., **Behrmann, M.** and Avidan, G. (2019). Minimal Recognizable Configurations (MIRCs) elicit category-selective responses in higher-order visual cortex, *J. Cognitive Neuroscience,*9, 1354-1367. PMID: 31059350 DOI:10.1162/jocn_a_01420

219. Collins, E., Freud, E., Kainerstorfer, J., Cao, J. and **Behrmann, M.** (2019). Temporal dynamics of shape processing differentiate contributions of dorsal and ventral visual pathways, *Journal of Cognitive Neuroscience,* 2019, 6, 821-836. doi: 10.1162/jocn_a_01391. [Epub ahead of print] PMID: 30883289

218. Haigh, S., Robinson, A., Grover, P. and **Behrmann, M.** (2018). Visual agnosia: Decoding EEG signals from visual cortex. Special issue of *Vision* (*Visual Perception and its neural mechanism), 2, 44, doi:10.3390/vision2040044.*

217. Nemrodov, D., **Behrmann, M.,** Niemeier, M., Drobotenko, N. and Nestor, A. (2019). Multimodal evidence on individual face processing, *Neuroimage*, 184, 813-825. doi: 10.1016/j.neuroimage.2018.09.083. PMID: 30291975

216. Liu, T. T., Nestor, A., Patterson, C., Vida, M. D., Pyles, J. A., Yang, Y., Freud, E. and **Behrmann, M.** (2018). Successful Reorganization of Category-Selective Visual Cortex following Occipito-temporal Lobectomy in Childhood, *Cell Reports,* 24, 5, p1113-1122.e6

215. Nah, J.C., Neppi-Modona, M., Strother, L., **Behrmann, M.** and Shomstein, S. (2018). Object Width Modulates Object-Based Attentional Selection, *Attention, Perception and Psychophysics,* 80(6):1375-1389. doi: 10.3758/s13414-018-1530-y.PMID: 29691762

214. 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).*

213. 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,* 30(7):1047-1058. doi: 10.1162/jocn_a_01262. PMID: 29561234

212. 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,* 181:120-131. doi: 10.1016/j.neuroimage.2018.06.080. PMID: 29966716

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

210. Geskin, J. and **Behrmann, M.** (2018). Congenital prosopagnosia without object agnosia: A literature review (with commentaries). *Cognitive Neuropsychology*, 35, 1-2, 4-54.

209. van Rooij, D., … **Behrmann, M.** et al. (2018). 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*, Apr 1;175(4):359-369. doi: 10.1176/appi.ajp.2017.17010100. PMID: 29145754

208. 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. PMID: 28980938

207. Vida, M. and **Behrmann, M.** (2017). Subcortical facilitation of rapid responses to threat, *Scientific Reports,* 7:13087, DOI:10.1038/s41598-017-13203-8.

206. Collins, E. G., Dundas, E., Gabay, Y. and **Behrmann, M.** (2017). Hemispheric organization in neuro-developmental disorders. Visual Cognition (Special Issue on "Person Perception')*.* 25, 4-6, 416-429.

205. 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

204. 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

203. 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.

202. Gabay, Y., Dundas, E., Plaut, D. and **Behrmann, M**. (2017). Atypical perceptual processing of faces in developmental dyslexia, *Brain and Language,* 173, 41-51.

201. 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

200. 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

199. 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.

198. Maurides, P. and **Behrmann, M.** (2017). The brain as muse – bridging art and neuroscience. *Leonardo,* 10.1162/LEON_a_01402, January 2017.

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.*

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

Liu, N., **Behrmann, M.,** Turchi, J. N., Avidan, G., Hadj-Bouziane, F. and Ungerleider, L. Hierarchical organization of face patches in macaque cortex as revealed by fMRI and pharmacological inactivation, *revision in prep., Nature Comm.*

Granovetter, M. C., Patterson, C. and **Behrmann, M.** Functional MRI with pediatric epilepsy surgery: a tool for understanding childhood brain plasticity, *in prep for Brain.*

Vin, R., Blauch, N. M. and **Behrmann, M.** Stimulus-Dependent Reorganization of the Visual Word Recognition Network, *in prep.*

Bleimeister, I., Avni, I., Granovetter, M., Meiri, G., Ilan, M., Flusser, H., Michaelovski, A., Menashe, I., **Behrmann, M.** and Dinstein, I. Idiosyncratic pupil regulation in children with autism, *in prep.*

Liu, T. T., Granovetter, M. C., Maallo, A. M. S., Patterson, C. and **Behrmann, M.** Reorganization in extrastriate cortex in children with temporal lobe resection, *in prep.*

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.*

Robinson, A. and **Behrmann, M.** Intermodulation in EEG signals reveals cooperation of mechanisms for face and word recognition, *in prep.*

Nishimura, M., Nestor, A. and **Behrmann, M.** Is sensitivity to spacing specific to faces? *in prep.*

Granovetter, M. C., Maallo, A. M. S., Patterson, C., Glen, D. and **Behrmann, M.** Cortical morphology in a pediatric sample following unilateral resection. *JAMA Neurology*, in prep.

Nischal, R. and **Behrmann, M.** Hemispheric lateralization of word recognition revealed over development using a measure of inversion sensitivity, *submitted manuscript.*

1c. Commentaries and other writing

Behrmann, M. Leslie G. Ungerleider (1946–2020): the multiple careers of a single extraordinary scientist https://www.nature.com/articles/s41593-021-00808-6

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

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2. Books and Book Chapters

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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.

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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 recent scientific meetings

Behrmann, M. (2022). Nu Rho Psi Induction Speaker, Slippery Rock University.

Behrmann, M. (2022) **I**nstitute of Cognitive Neuroscience, Wellcome Institute, London, UK.

Behrmann, M. (2022). Colloquium, Department of Neurobiology, University of Pittsburgh.

Behrmann, M. (2022). Colloquium, Surgical Neurology Branch of the NIH in Bethesda.

Behrmann, M. (2022). University of Pittsburgh Epilepsy Center Grand Rounds, Epilepsy Center.

Behrmann, M. (2022). Keynote speaker, Duke University, DIBS Distinguished Lecture and Symposium, virtual.

Behrmann, M. (2022). Sharif Neuroscience Conference, Tehran, Iran.

Behrmann, M. (2021). Bar Ilan University, Visual Colloquium. The emergence and plasticity of visual domain organization in the cerebral hemispheres.

Behrmann, M. (2021). Hemispheric organization and pattern recognition. VSS, Virtual.

Behrmann, M. (2021). Society for Research in Child Development, virtual meeting. The emergence of hemispheric organization: The case of faces and words.

Behrmann, M. (2020). Keynote speaker, Cognitive Neuroscience Society, virtual meeting. Hemispheric organization for visual recognition.

Behrmann, M. (2019). Keynote speaker. The organisational principles of the visual ventral stream: convergent evidence from neuroimaging, neuropsychology, and computational modelling. MRC Cognition and Brain Sciences Unit (CBU) Cambridge, UK.

Behrmann, M. (2019). Keynote speaker ECVP Leuven, Belgium.

Behrmann, M. (2019). Discussant, symposium, Face perception and face recognition: a clinical perspective, ECVP Leuven, Belgium.

Behrmann, M. (2018). Invited speaker, National Eye Institute 50th anniversary, Bethesda, MD.

Behrmann, M. (2018). Invited speaker, International Neuropsychology Symposium, Cassis, France, June.

Behrmann, M. (2018). Invited speaker, Brenda Milner Centennial Symposium, Montreal, Canada.

Behrmann, M. (2016). Keynote speaker, Shenzen 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.

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

Robert, S., Granovetter, M., Patterson, C. and Behrmann, M. (2022). Investigation of hemispheric functional organization after pediatric epilepsy surgery with naturalistic neuroimaging, *Vision Sciences Society.*

Blauch, N., **Behrmann, M.** and Plaut, D. C. (2022). Connectivity constraints, viewing biases, and task demands within a bi-hemispheric interactive topographic network model account for the layout of human ventral temporal cortex, *Vision Sciences Society.*

Liu, T. T., Granovetter, M., Maallo, A. S. M., Fu, J. Z., Patterson, C. **and Behrmann, M.** (2022). Plasticity of visual cortex following large cortical resection, *Vision Sciences Society.*

Granovetter, M. C., Maallo, A. M. S., Glen, D., Patterson, C. and **Behrmann, M**. Morphometric Changes in the Intact Hemisphere After Pediatric Epilepsy Surgery, American Epilepsy Society, 2021.

Vin, R., Blauch, N., **Behrmann, M.** Investigating distributed functional connectivity during word and nonword visual recognition. Vision Science Society, 2021.

Glen, D. R., Levenstein, J. Granovetter, M., Maallo, A. M. S. and **Behrmann, M.** Large lesion brain alignment. Organization of Human Brain Mapping, 2021.

Ahmad, Z., **Behrmann, M.,** Patterson, C. and Freud, E. Unilateral Cortical Resection of Both Visual Pathways Alters Action but not Perception in a Pediatric Patient with Pharmaco-resistant Epilepsy

Behrmann, M. The Emergence of Hemispheric Organization: The case of faces and words. SRCD April.

Chamanzar, A. **Behrmann, M.** and Grover, P. Neural silences can be localized rapidly using template head models. SFN, virtual, Jan 2021.

Granovetter, M. C., Maallo, A. M. S., Patterson, C. and **Behrmann, M**. Cortical morphology of the contralesional hemisphere following pediatric unilateral resection. SFN, virtual, Jan 2021.

Blauch, N., Maallo, A. M. S., Plaut, D. C. and **Behrmann, M.** Evidence from fMRI for an interactive account of hemispheric lateralization in visual perception. CNS, Virtual, May 2020.

Blauch, N., **Behrmann, M.** and Plaut, D. C. Computational insights into human expertise for (un)familiar face recognition. CNS, Virtual, May 2020.

Maallo, A. M. S., Freud, E., Granovetter, M. C., and **Behrmann, M.** Reorganization of functional connectivity does not obviously explain outcome post-lobectomy. CNS, Virtual, May 2020

Robinson, A. K., Grootswagers, T., Shatek, S., **Behrmann, M.** and Carlson, T. A. (2020). The temporal dynamics of object processing within and across the hemispheres. Vision Sciences Society, Florida.

Blauch, N. M., **Behrmann, M.,** and Plaut, D. C. (2020). Cortical organization as optimization. Vision Sciences Society, Florida.

Haigh, S. M., Brosseau, P., Eack, S. M., Lele, C., Leitman, D. I., Salisbury, D. F. and **Behrmann, M.** (2020). Hyper- and hypo-sensitivity to pitch related to poorer prosody processing: A study in autism and schizophrenia. Society for Biological Psychiatry.

Maallo, A.M., Freud, E., **Behrmann, M.** (2019). Focal changes to human white matter concomitant with unilateral cortical lesions. Society for Neuroscience, Chicago, October.

Haigh, S. M., Brosseau, P., Lele, C., Eack, S. M., Leitman, D. I. and **Behrmann, M.** (2019). Hyper-sensitivity to pitch related to poorer prosody processing in adults with autism. Society for Neuroscience, Chicago, October.

Collins, E. and **Behrmann, M.** (2019). Representational Origins of Visual Expertise: Exemplar Learning Differentiates Novice and Expert Category Perception. Poster, Cognitive Neuroscience Society, San Francisco.

Granovetter, M. C, Burlingham, C. S., Heeger, D. J. and **Behrmann, M.** (2019). Individuals with autism exhibit atypical pupillary responses under cognitive load. Poster, Cognitive Neuroscience Society, San Francisco.

Picci, G., Scherf, K. S. and **Behrmann, M.** (2018). Greeble Training in Adolescents Increases Neural Activation in the FFA. Vision Sciences Society, Naples, Florida, May.

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.

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; University of Oregon.

2019: Rice University, February; Peking University, Beijing, March; University of Massachusetts at Amherst; Hebb Lecture at McGill University, Montreal; Leadership Pittsburgh Keynote speaker Annual meeting, Pittsburgh, January; Leader Brain talk, Leadership Pittsburgh, March; Keynote speaker, Brain recovery Project, Cleveland, July; Keynote speaker European Conference on Visual Perception, Leuven, Belgium, August; Keynote speaker MRC CBU, University of Cambridge, UK, September.

2020: Princeton University; Michigan State University; NIH Workshop Understanding Human Retina Biology and Perception

2021: Salk Institute, UCSD; Grand Rounds, UPMC

2022: Surgical Neurology Branch of the NIH; Sharif Neuroscience Symposium, Tehran; Duke Institute for Brain Sciences Distinguished Lecture 2022, Department of Neurobiology, University of Pittsburgh.

Other synergistic activities:
Keynote speaker, Leadership Pittsburgh Lunch, February 2019
Big Table host, Carnegie Mellon University (under auspices of Leadership Pittsburgh), April 2019
Rothschild Award selection committee
Troland prize committee, National Academy of Sciences
Membership committee, Section 52, National Academy of Sciences
SFN prize committees, Society for Neurosciences

E. STUDENT/POSTDOC TRAINING and Awards

Graduate students (n=19)
Maria Chroneous, current, MSTP
Max Kramer, current
Sophia Roberts; current, Graduate Research Fellowship, NSF
Nick Blauch, current, Program in Neural Computation

Michael Granovetter, current, MSTP, American Epilepsy Foundation Fellowship
Elliot Collins, MSTP, now Psychiatry Resident
Tina Tong Liu, now Postdoc, NIMH
Eva Dundas, now Chief Learning Officer, Branching Minds
Jaime Doyle, Physician's Assistant, Neurosurgery at Geisinger Health System
Valentinos Zachariou, Scientist, Department of Neuroscience, University of Kentucky
Linda Moya, Distinguished Service Professor, Carnegie Mellon University
Cibu Thomas, Center for Scientific Review, NIH.
Dwight Kravitz, Associate Professor, George Washington University
Anthony Cate, Assistant Professor, Roanoke College
Joy Geng, Professor, University of California, Davis
Craig Haimson, Cognitive Science researcher, Interaction Design Foundation
James Fleming, Science Teacher
Rick Gilmore (with Mark Johnson), Professor, Penn State
Shaun Vecera (with Martha Farah), Professor, University of Iowa

Postdoctoral fellows (n=27)
Shouyu Ling, October 2022
Vladislav Ayzenberg, current
Marge Maallo, Postdoc, Linköping University, Sweden
Erez Freud, Assistant Professor, York University
Amanda Robinson, Queensland Brain Institute Neuroscience
Mark Vida
Sarah Haigh, Assistant Professor, University of Nevada
Shai Gabay, Professor, University of Haifa
Ilan Dinstein, Associate Professor, Ben Gurion University
Adam Greenberg, Assistant Professor, Marquette University
Adrian Nestor, Associate Professor, University of Toronto,
K. Suzy Scherf, Associate Professor, Penn State
Mayu Nishimura, Assistant Professor, McMaster University
Serena Butcher
Katherine Humphreys, Institute of Psychiatry, London
Sarah Shomstein, Professor, Assistant Professor,
Lars Strother, Associate Professor, University of Nevada
Jonathan Marotta, Professor, University of Manitoba
John Philbeck, Professor, Assistant Professor,
Galia Avidan, Professor, Ben Gurion University
Mark Orr, Research Associate Professor, University of Virginia
Orna Rosenthal, Research Associate, University of Birmingham
Chris Baker (with Carl Olson), Lab Chief, NIMH
Marie Montant, Aix-Marseille University and CNRS, France
Therese Huston, founding director of the Center for Excellence in Teaching and Learning at Seattle University
Suzanna Becker, Professor, McMaster University
Richard Zemel, Professor, Columbia University

Faculty mentoring
Jacqueline Snow, University of Nevada
Lars Strother, University of Nevada
Meike Ramon, University of Fribourg, Switzerland

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

Avital Hahamy, Weizmann Institute of Science, Israel

F. Department and University Service

2019 and onwards:
1. Adviser, Postdocs Psychology Department
2. Mental Health Training Ad Hoc Committee for Student Experience
3. Task Force for Climate Change (faculty focus)
4. Committee, Mental Health priorities at CMU

Graduate thesis committees:
2022: Emefa, Alireza Chamanzar

G. 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

2021
https://engineering.cmu.edu/news-events/news/2021/04/01-neural-silences.html
https://www.cmu.edu/dietrich/faculty-staff/personal-mentions.html

2020
KCBS All News Radio
https://www.nytimes.com/2020/08/31/health/covid-masks-face-blindness.html
https://www.cmu.edu/news/stories/archives/2020/march/behrmann-honor.html
https://www.cmu.edu/dietrich/news/news-stories/2020/march/behrmann-teller.html
https://www.eurekalert.org/pub_releases/2020-04/sfn-cib033120.php
https://www.spectrumnews.org/news/autistic-people-may-have-trouble-tuning-out-distractions/?utm_source=Spectrum+Newsletters&utm_campaign=a9f884322a-EMAIL_CAMPAIGN_2020_05_01_08_06&utm_medium=email&utm_term=0_529db1161f-a9f884322a-168801273
https://www.youtube.com/watch?v=2jM2hjPtacw&feature=youtu.be

2019
http://eyeonvision.blogspot.com/2019/06/epileptic-children-retaining-visual.html
https://www.sciencedaily.com/releases/2019/06/190604131121.htm
https://www.cmu.edu/news/stories/archives/2019/june/brain-reorganizing.html

https://www.newsweek.com/epileptic-girl-who-had-half-her-brain-removed-can-read-after-organ-rewired-itself-1441797
https://www.cmu.edu/dietrich/news/news-stories/2019/june/brains-reorganize.html
https://www.facebook.com/CMUDietrich/
https://www.instagram.com/p/ByTFXtGlyeF/?utm_source=ig_web_copy_link
https://twitter.com/CMU_DietrichHSS/status/1135978501864075264
https://www.technologynetworks.com/neuroscience/news/childrens-brains-dramatically-rewire-to-retain-perception-after-epilepsy-surgery-320228
https://www.nih.gov/news-events/news-releases/childrens-brains-reorganize-after-epilepsy-surgery-retain-visual-perception
https://onezero.medium.com/the-brain-that-remade-itself-bcc7b3a43cff
https://www.post-gazette.com/life/seen/2019/01/14/Leadership-Pittsburgh-Inc-Champagne-Luncheon-SEEN-Natalie-Bencivenga-Oliphant/stories/201901140006
https://www.cmu.edu/news/stories/archives/2019/april/academy-arts-and-sciences-fellows.html

2018
https://www.the-scientist.com/notebook/after-a-lobectomy--a-boy-still-recognizes-words-and-faces-64939
https://www.parsingscience.org/2018/11/13/marlene-behrmann/
http://www.sajr.co.za/news-and-articles/2018/11/01/south-african-emigres-deeply-shaken-by-pittsburgh-shooting
https://www.usatoday.com/story/news/nation-now/2018/08/03/boy-without-one-sixth-his-brain-normal-pennsylvania/889752002/
https://www.pbs.org/newshour/science/this-child-lost-a-sixth-of-his-brain-the-rest-learned-to-pick-up-the-slack
https://www.washingtonpost.com/news/to-your-health/wp/2018/08/02/a-12-year-old-had-one-sixth-of-his-brain-removed-he-feels-perfectly-normal/?utm_term=.3bebee8c7ef3
https://www.cnn.com/2018/07/31/health/surgeons-remove-part-of-childs-brain-case-study/index.html
https://www.newsweek.com/lobectomy-study-scientists-reveal-boys-incredible-recovery-after-large-chunk-1052238
https://arstechnica.com/science/2018/08/doctors-cut-out-a-large-chunk-of-a-boys-brain-now-hes-doing-just-fine/
https://www.technologynetworks.com/neuroscience/news/long-term-study-of-a-boys-lobectomy-offers-rare-glimpse-of-plasticity-in-action-307013
http://www.dailymail.co.uk/health/article-6011359/Boys-brain-fills-gaps-left-lobectomy-cost-half-sight.html
https://www.nbcnews.com/health/health-news/boy-recovers-normal-life-after-losing-big-part-his-brain-n896341
http://www.post-gazette.com/news/health/2018/08/01/Study-finds-boy-s-brain-found-new-ways-to-learn-after-surgery-carnegie-mellon-new-stanton-tanner-collins/stories/201807310153
http://www.azfamily.com/story/38777084/when-surgeons-removed-one-sixth-of-a-childs-brain-heres-what-happened
https://consumer.healthday.com/cognitive-health-information-26/epilepsy-news-235/brain-s-plasticity-amazes-as-boy-recovers-from-drastic-surgery-736338.html
https://www.eurekalert.org/pub_releases/2018-07/cmu-csc072718.php
https://www.livescience.com/63216-brain-plasticity-lobectomy.html
https://www.newscientist.com/article/2175549-boys-brain-works-just-fine-after-a-large-piece-was-removed/
https://www.cmu.edu/dietrich/news/news-stories/2018/july/marlene-behrmann-lobectomy-study.html
https://www.wired.com/story/google-lens-does-what-the-human-brain-cant/
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/allegheny/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/allegheny/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

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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
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