

CURRICULUM VITAE

Marlene Behrmann (Cohen)
 Department of Ophthalmology,
 University of Pittsburgh School of Medicine
 and
 Carnegie Mellon University, Pittsburgh

A. BIOGRAPHICAL INFORMATION1. Personal

Date of birth: April 14, 1959 (Johannesburg, South Africa)
 Citizenship: South Africa; Canada; United States of America
 Address: Department of Ophthalmology, University of Pittsburgh
 Mercy Pavilion Vision Institute
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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 **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, Department of Ophthalmology, University of Pittsburgh Medical School
 Secondary appointments in Psychology, Neuroscience, Neurological Surgery and Communication Disorders.
- 2022 Emeritus Professor, Carnegie Mellon University
- 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

- 2024 Dorothy J Killam named lecture, Montreal Neurological Institute
- 2024 52nd Sir Frederic Bartlett Lecture, British Experimental Psychology Society.
- 2023 Howard Crosby Warren Medal, Society of Experimental Psychologists 2023
- 2023 Lead speaker, Rank Symposium, Cumbria, UK
- 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
- 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*
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 Reviewer, NIH and NSF

2024 Member, VSS Davide Teller award committee

2024 Lila R. Gleitman Prize Selection Committee

2023 SFN Young Investigator Award Committee,

2023 Society for Experimenting Psychologist Chair Award committee

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 grants)

- 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.
- 2024-2028 Co-PI: **M. Behrmann**. PI: J. Snow. National Institutes of Health (NEI).
Title: Bringing the real-world into cognitive neuroscience: from images to real objects. Final funding TBD.
- 2024-2028 Co-PI: Paul Kinchington and **M. Behrmann**.
Title: Interdisciplinary vision sciences training program. T32, National Eye Institute.
- 2024-2027 Co-I: **M. Behrmann** and J. P. Mayo
Title: Organization and possible reorganization of eye movements and their neural substrate. Hillman Foundation.
- 2024-2028 PI: J. Ash 5P30EY008098-35 Core grant for Vision research, NEI. **M. Behrmann** lead on Biostatistics Module.

Patent: Allowance - U.S. Pat. App. 18/410,446 - Method for Detecting and Localizing Brain Silences Using EEG - (CMU Ref: 2019-170)(KDW Ref: 8350.0111C)

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

C. PUBLICATIONS

1a. Refereed Journals: published or in press

H-index 93; number of citations 30,593

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

274. Granovetter, M. C., Maallo, A. M. S., Ling, S., Robert, S., Patterson, C. and **Behrmann, M.** (2024). Functional Resilience of the Neural Visual Recognition System Post-Pediatric Occipitotemporal Resection, *iScience*, in press with minor revisions.

273. **Behrmann, M.** (2024). The organization, development and plasticity of the cerebral hemispheres for face and word recognition. *Quarterly Journal of Experimental Psychology*, in press.

272. Robinson A. K., Grootswagers T., Shatek, S., **Behrmann, M.** and Carlson, T. A. Dynamics of visual object coding within and across the hemispheres: Objects in the periphery. *Scientific Advances*, in press with minor revisions.
271. Chamanzar, A., Freud, E., Grover, P. and **Behrmann, M.** (2024). SilenceMap can provide frequency band inferences about functional silences in object shape processing deficits induced by brain injury, *Imaging Neuroscience*, in press with minor revisions.
270. Bleimeister, I., Avni, I., Granovetter, M., Meiri, G., Ilan, M., Flusser, H., Michaelovski, A. Menashe, I., **Behrmann M.**, (2024). Idiosyncratic pupil regulation in autistic children, *in press, Autism Research*.
269. Liu, N., Avidan, G., Turchi, J. N., Hadj-Bouziane, F. and **Behrmann, M.** (2024). A possible neural basis for attentional capture revealed by fMRI and causal pharmacological inactivation in macaques, *Journal of Cognitive Neuroscience*, 2024 Jun 26:1-19. doi: 10.1162/jocn_a_02211. Online ahead of print.
268. Peskin, N., **Behrmann, M.**, Gabay, S. and Gabay, Y. (2024). Prolonged reliance on subcortical mechanisms during face and word recognition in developmental dyslexia, *Brain and Cognition*, 174, doi: 10.1016/j.bandc.2023.106106. Online ahead of print.
267. Robert, S., Granovetter, M. C., Patterson, C. and **Behrmann, M.** (2024). Investigation of hemispheric functional organization after pediatric epilepsy surgery with naturalistic neuroimaging, *PNAS*, Jul 9;121(28):e2317458121. doi: 10.1073/pnas.2317458121.
266. Simmons, C., Granovetter, M. C., Robert, S., Liu, T. T., Patterson, C. and Behrmann, M. (2024). Holistic processing and expertise effects after pediatric resection of occipitotemporal cortex, *Neuropsychologia*, Feb 15;194:108789. doi: 10.1016/j.neuropsychologia.2024.108789. Epub 2024 Jan 6.
265. Vin, R., Blauch, N. M., Plaut, D. C. and **Behrmann, M.** (2024). Beyond the VWFA: a bihemispheric large-scale network underlies visual word recognition, *iScience*, [Volume 27, Issue 2](#), 108809, 10.1016/j.isci.2024.108809.
264. Ayzenberg, V., Granovetter, M. C., Robert, S., Patterson, C. and **Behrmann, M.** (2023). Differential functional reorganization of ventral and dorsal visual pathways following childhood hemispherectomy, *Developmental Cognitive Neuroscience*, doi: 10.1016/j.dcn.2023.101323.
263. Ayzenberg, V. and **Behrmann, M.** (2024). Development of visual object recognition, *Nature Reviews Psychology*. <https://doi.org/10.1038/s44159-023-00266-w>.
262. Ayzenberg, V. and **Behrmann, M.** (2023). The where, what and how of object perception. *TiCS*, 27(4):335-336. doi: 10.1016/j.tics.2023.01.006.
261. Nischal, R. and **Behrmann, M.** (2023). Hemispheric lateralization of word recognition revealed over development using a measure of inversion sensitivity, *Developmental Science* Jan 30;e13372. doi: 10.1111/desc.13372. Online ahead of print.
260. Ayzenberg, V. and **Behrmann, M.** (2023). An expanded neural framework for shape perception. *TiCS*, 27(3):212-213. doi: 10.1016/j.tics.2022.12.001.

259. Ayzenberg, V., Simmons, C. and **Behrmann, M.** (2023). Temporal asymmetries and interactions between dorsal to ventral visual pathway during object recognition, *Cerebral Cortex Communication*, Jan 13;4(1):tgad003. doi: 10.1093/texcom/tgad003. eCollection 2023.
258. Ayzenberg, V. and **Behrmann, M.** (2022). Does the ventral visual pathway compute shape? *TiCS*, 26(12):1119-1132. doi: 10.1016/j.tics.2022.09.019.
257. Granovetter, M.C., Robert, S., Ettensohn, L., and **Behrmann, M.** (2022). With childhood hemispherectomy, one hemisphere can support--but is suboptimal for--word and face recognition, *PNAS*, 119(44):e2212936119. doi: 10.1073/pnas.2212936119.
256. Haigh, S. M., Van Key, L., Eack, S. M., Leitman, D. I., Salisbury, D.F. * **Behrmann, M.** (2022). Assessing trial-to-trial variability in auditory ERPs in autism and schizophrenia. *Journal of Autism and Developmental Disorders*. Special issue: Sensory Features in Autism and Related Conditions: Developmental Approaches, Mechanisms and Targeted Interventions, doi: 10.1007/s10803-022-05771-0. Online ahead of print.
255. Liu, N., **Behrmann, M.**, Turchi, J. N., Avidan, G., Hadj-Bouziane, F. and Ungerleider, L. (2022). Hierarchical organization of face patches in macaque cortex as revealed by fMRI and pharmacological inactivation, *Nature Communication*, 13(1):6787. doi: 10.1038/s41467-022-34451-x.
254. 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*, 13, 13:844830. <https://doi.org/10.3389/fpsyt.2022.844830>
253. Ayzenberg, V. and **Behrmann, M.** (2022). Object-centered spatial relations: A functional contribution of the dorsal visual pathway to object categorization, *Journal of Neuroscience*, 8;42(23):4693-4710. doi: 10.1523/JNEUROSCI.2257-21.2022.
252. 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
251. 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.
250. **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>.
249. 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
248. 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.

247. 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
246. 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.
245. 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.
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*, *Annual Review of Vision Science.* 7:301-321. doi: 10.1146/annurev-vision-113020-012740. Epub 2021 May 20. PMID: 34014762
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. Freud, E., **Behrmann, M.** and Snow, J.C. (2020). What, if anything, does dorsal cortex contribute to object perception?, *Open Mind*, p40-56, https://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. 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.
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](https://doi.org/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. 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: 3029197
217. 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.
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.
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1b. Refereed Journals: submitted, being revised or in preparation

Chronos, M. Z., **Behrmann, M.*** and Mayo, J. P.* (*equal authors). Childhood hemispherectomy results in ipsilesional smooth pursuit deficits with compensatory saccades, *in prep.*

Granovetter, M., C. Patterson, C., Robert, S. and **Behrmann, M.** Understanding comorbidity and multifactorial outcomes and care for pediatric cortical resection patients, *in prep.*

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

Liu, T. T., Granovetter, M. C., Maallo, A. M. S., Patterson, C. and **Behrmann, M.** Cross-sectional and longitudinal category-selectivity in visual cortex following pediatric cortical resection, *under review.*

Granovetter, M. C., Maallo, A. M. S., Patterson, C., Glen, D. and **Behrmann, M.** Morphometrics of the preserved post-surgical hemisphere in paediatric drug-resistant epilepsy, *submitted*, BIORXIV/2023/559189

Robert, S., Granovetter, M.C. and **Behrmann, M.** Space- and object-based attentional processing in typical development and childhood hemispherectomy, *under review.*

Blauch, N. M., Maallo, A. M. S., Vin, R., Plaut, D.C. and **Behrmann, M.** Individual variation in the laterality of high-level visual cortex: local competition and distributed coupling, *under review.*

Avni, I., Sabry, S., Kimchi, R. and **Behrmann, M.** The neural dynamics of visual ensemble processing, *in prep.*

1c. Commentaries and other writing

Behrmann, M. Leslie G. Ungerleider (1946–2020): the multiple careers of a single extraordinary scientist
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2. Books and Book Chapters

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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.
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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.
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6. **Behrmann, M.**, Kosslyn, S. and Jeannerod, M. (Eds.) (1995). *Mental imagery: Psychological and Neural Mechanisms*. Elsevier Science, North-Holland.

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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 recent scientific meetings

- Behrmann, M.** (2024). The development, hemispheric organization and plasticity of high-level vision. Bartlett Lecture, York University, UK.
- Behrmann, M.** (2024). What is done by the dorsal visual pathway, and how? April, Centre for Research on Brain, Language and Music, Montreal
- Behrmann, M.** (2023). The roots, present, and future of cognitive neuroscience. Address at Cognitive Neuroscience Society Symposium, San Francisco.
- Behrmann, M.** (2023). Face patches and circuitry in human and non-human inferotemporal cortex. Cognitive Neuroscience Society Symposium in memory of Dr Leslie Ungerleider, San Francisco.
- Behrmann, M.** (2022). Nu Rho Psi Induction Speaker, Slippery Rock University.
- Behrmann, M.** (2022) Institute 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, 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.

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

Granovetter, M. C., Jones, M., Puka, K., Robert, S. and **Behrmann, M.** (2024). Delineating Behavioral and Mental Health Outcomes Following Childhood Hemispheric Surgery. Annual Meeting of the American Epilepsy Society, Los Angeles.

Chroneos, M. Z., Mayo, J. P. and Behrmann, M. (2024). Saccade profiles across contexts in childhood hemispherectomy. *Vision Sciences Society, Florida*.

Ayzenberg, V., Granovetter, M. C., Robert, S., Patterson, C. and Behrmann, M. (2024). Differential functional organization of ventral and dorsal visual pathways following childhood hemispherectomy. *Vision Sciences Society, Florida*.

- Granovetter, M. C., Patterson, C. and **Behrmann, M.** (2023). Following Pediatric Hemispherectomy, the Composition of the Patient's Healthcare Team Expands: An Analysis of the Global Pediatric Epilepsy Surgery Registry. Child Neurology Society.
- Granovetter, M. C., Robert, S., Patterson, C. and **Behrmann, M.** (2023). Characterizing Cognitive and Neuropsychological Outcomes Following Pediatric Hemispherectomy. American Epilepsy Society, Orlando, FL.
- Chroneos, M. Z., Mayo, J. P., **Behrmann, M.** (2023). Horizontal and vertical smooth pursuit after childhood hemispherectomy. *Society for Neurosciences, Washington DC.*
- Robert, S., Granovetter, M. C. and **Behrmann, M.** (2023). Plasticity of Hemispheric Functional Organization after Pediatric Epilepsy Surgery. *Society for Neurosciences, Washington DC.*
- Robert, S., Granovetter, M. C. and **Behrmann, M.** (2023). Hemispherectomy-induced alterations in the lateralization of spatial- and object-based attention, *Vision Sciences Society, Florida.*
- Ayzenberg, V. and **Behrmann, M.** (2023). Dorsal and ventral visual pathways: An expanded neural framework for object recognition, *Vision Sciences Society, Florida.*
- Kramer, M.A., Ayzenberg, V., Wang, Z., Patterson C. and **Behrmann, M.** (2023). Functional contributions of the dorsal pathway to shape perception: Evidence from intracranial recording, *Vision Sciences Society, Florida.*
- Chroneos, M. Z., Willett, S. M., Robert, S., Mayo, J. P., **Behrmann, M.** (2023). Sinusoidal Smooth Pursuit After Childhood Hemispherectomy. *Vision Sciences Society, Florida.*
- Robinson, A. K., Grootswagers, T., Shatek, S. M., **Behrmann, M.** and Carlson, T. A. (2022). The dynamics of object coding within and across the hemispheres. *Society for Neurosciences, San Diego.*
- 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, Florida.*
- 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, Florida.*
- 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, Florida.*
- Granovetter, M. C., Maallo, A. M. S., Glen, D., Patterson, C. and **Behrmann, M.** (2021). Morphometric Changes in the Intact Hemisphere After Pediatric Epilepsy Surgery, American Epilepsy Society.
- Vin, R., Blauch, N., **Behrmann, M.** (2021). Investigating distributed functional connectivity during word and nonword visual recognition. Vision Science Society.
- Glen, D. R., Levenstein, J. Granovetter, M., Maallo, A. M. S. and **Behrmann, M.** (2021). Large lesion brain alignment. Organization of Human Brain Mapping.

Ahmad, Z., **Behrmann, M.**, Patterson, C. and Freud, E. (2021). Unilateral Cortical Resection of Both Visual Pathways Alters Action but not Perception in a Pediatric Patient with Pharmaco-resistant Epilepsy.

Behrmann, M. (2021). The Emergence of Hemispheric Organization: The case of faces and words. SRCD April.

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

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

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.

3. Departmental colloquia/seminars since 2014

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 • National Institutes of Health (Memorial Leslie Ungerleider symposium) • New York University

2023: • New York University • Washington University • University of Trento (Mind/Brain Sciences) • Institute for Brain Science, South Korea • Rank Symposium, Cumberland, UK • Vision Institute, Paris

2024: • Swiss Association of Neuropsychologists • Bartlett lecture, York, UK • Killam lecture, Montreal • Children's Neuroscience Unit, Children's Hospital Pittsburgh. • Seeing and acting workshop: Functional and Neural Perspectives, Coimbra, Portugal • Keynote speaker, Israel Vision Sciences Society, Tel Aviv

2025: • VISTA 2025: The Brain and Integrative Vision, York University, Toronto • Colloquium, Cognitive Science Department at Johns Hopkins University

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

Society for Experimenting Psychologists, chair Prize committee

Advisory board, Methusalem grant, KU Leuven.

Advisory board, 'Striving for the First-Class, Improving Weak Links and Highlighting Features (SIH) Key Discipline for Psychology in South China Normal University, funding: National Natural Science Foundation of China, Ministry of Science and Technology of China

Chair, Prize committee, Society of Experimenting Psychologists

E. STUDENT/POSTDOC TRAINING and Awards

Graduate students (n=20)

Claire Simmons, current, MSTP
Aida Mirebrahimi, current, Program in Neural Computation
Maria Chronous, current, MSTP, Rita Levi Montalcini fellowship
Sophia Roberts, current, Graduate Research Fellowship, NSF
Nick Blauch, current, Program in Neural Computation
Michael Granovetter, MSTP, American Epilepsy Society, American 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=29)

Kelly Martin, 2024
Inbar Avni, 2023
Shouyu Ling, 2022
Vladislav Ayzenberg, 2020-2023, Postdoc U Penn
Marge Maallo, Senior Scientist for Algorithms and Product Development at InSingulo AB
Erez Freud, Associate 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

CMU

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

University of Pittsburgh

1. Steering committee, Ophthalmology
2. Mentoring committee, Ophthalmology

G. TEACHING

My teaching has revolved 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
- g. Team teaching in the Biology of Vision, Ophthalmology

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

2024

https://www.pittmed.pitt.edu/news/plasticity-young-brains-epilepsy-hemispherectomy-imaging-marlene-behrmann?utm_source=eblast_internal&utm_medium=email&utm_campaign=pittmedmagazine_summer2024

2023

<https://www.upmcphysicianresources.com/news/021023-behrmann>

<https://www.npr.org/sections/health-shots/2023/03/22/1165131907/neuroplasticity-plasticity-glass-half-full-girl>

2022

<https://www.popsugar.com/fitness/prosopagnosia-face-blindness-48877793>

<https://www.newscientist.com/article/2333604-people-with-half-a-brain-removed-do-well-at-face-and-word->

[recognition/?utm_medium=social&utm_campaign=echobox&utm_source=Twitter#Echobox=1660569574](https://www.nei.nih.gov/about/news-and-events/news/word-and-face-recognition-can-be-adequately-supported-half-brain-study-finds)

<https://www.nei.nih.gov/about/news-and-events/news/word-and-face-recognition-can-be-adequately-supported-half-brain-study-finds>

<https://nextpittsburgh.com/latest-news/precision-neuroscopics-wins-150000-upprize-for-improving-eegs/>

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.parsing-science.org/2018/11/13/marlene-behmann/>

<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-behmann-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/>

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