

CURRICULUM VITAE

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

A. BIOGRAPHICAL INFORMATIONPersonal

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.

2. Employment and Teaching

- 2024 John and Clelia Sheppard Chair in Ophthalmology, University of Pittsburgh Medical School
- 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.
- 997- 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.
- 994-7 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

- :024 Dorothy J Killam named lecture, Montreal Neurological Institute
- :024 52nd Sir Frederic Bartlett Lecture, British Experimental Psychology Society.
- :023 Howard Crosby Warren Medal, Society of Experimental Psychologists
- :023 Lead speaker, Rank Symposium, Cumbria, UK
- :020 Vision Sciences Society's Davida Teller Award exceptional scientific achievements, commitment to equity, and strong history of mentoring.
- :020 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
- :018 William E. Brown Outstanding MSTP Mentor Award, U. of Pittsburgh and Carnegie Mellon U.
- :017 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
- :004 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).
- 998 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.
- 984-85 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.

- 982 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)

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|-------|---|
| 2025 | Member, National Advisory Eye Council, NIH |
| 2025 | Judge, Best Illusions of the Year Contest |
| 2025 | Class V representative, CMC, NAS |
| 2024 | Reviewer, NIH and NSF (no more NIH study section because NAEC member) |
| 24- | Member, VSS Davide Teller award committee |
| 24 | Chair, Prize committee for Society for Experimenting Psychologist Awards |
| 24- | Lila R. Gleitman Prize Selection Committee |
| 23 | SFN Young Investigator Award Committee, |
| 23- | Society for Experimenting Psychologist 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 |
| 2016- | Steering committee, Edmond and Lily Safra Center for Brain Sciences at Hebrew U., Jerusalem |

B. CURRENT RESEARCH AWARDS

Active

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

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. \$2,907,095.00

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.

28 PI: J. Ash 5P30EY008098-35 Core grant for Vision research, NEI. **M. Behrmann** lead on Biostatistics Module.

2025-2029 Co-PI: **M. Behrmann** and D. Plaut

Title: Graded functional organization of ventral and dorsal visual pathways within and between hemispheres. National Science Foundation \$971,537 (Direct).

29 Co-I M. Behrmann (PI: V. Zachariou)

Title: The Impact of Brain Iron on Face Perception and Supporting Neurocognitive Networks in Older Adults
\$221,390 (Direct)

2025-2029 Co-I M. Behrmann (PI: E. Rossi)

Title: The Role of Fronto-parietal and Subcortical Circuits in Fixational Eye Movement Deficits Following Concussion
\$504,414 (Direct and Indirect)

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)

U.S. Patent 12,178,588, directed to a Method for Detecting and Localizing Brian Silences

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 94; number of citations 31,330

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

276. Liu, T. T.*, Granovetter, M. C.*, Maallo, A. M. S., Patterson, C., Plaut, D.C. and **Behrmann, M.** Cross-sectional and longitudinal category-selectivity in visual cortex following pediatric cortical resection, *In press Communications Biology with minor revisions.*

275. 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.
274. Blauch, N. M., Plaut, D. C., Vin, R., and Behrmann, M. (2025). Individual variation in the functional lateralization of human ventral temporal cortex: Local competition and long-range coupling, *Imaging Neuroscience*, in press. <https://www.biorxiv.org/content/10.1101/2024.10.15.618268v2>
273. 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*, 27, 111440.
272. **Behrmann, M.** (2024). The organization, development and plasticity of the cerebral hemispheres for face and word recognition. *Quarterly Journal of Experimental Psychology*, in press.
271. Robinson A. K., Grootswagers T., Shiatek, S., **Behrmann, M.** and Carlson, T. A. (2024). Dynamics of visual object coding within and across the hemispheres: Objects in the periphery. *Scientific Advances*, Jan 3;11(1):eadq0889. doi: 10.1126/sciadv.adq0889. Epub 2025 Jan 1.
270. Bleimeister, I., Avni, I., Granovetter, M., Meiri, G., Ilan, M., Flusser, H., Michaelovski, A. Menashe, I., **Behrmann, M., Dinstein, I. (co-senior authors)** (2024). Idiosyncratic pupil regulation in autistic children, *Autism Research*. doi: 10.1002/aur.3234.
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*. doi: 10.1162/jocn_a_02211. Online ahead of print. PMID: PMC8784138
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.** (2023). 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/fpsy.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. Sehyr, 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). Visuo-perceptual 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
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1b. Refereed Journals: submitted, being revised or in preparation

Ling, S., Beauchamp, M., Wang, Z., Patterson, C., Welch, W. Granovetter, M. C., Robert, S., Avni, I. and **Behrmann, M.** Visual representations in adolescent visual cortex revealed with intracranial electrode recording, *in prep.*

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

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

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

Avni, I. and **Behrmann, M.** Hemispheric and interhemispheric differences in signal propagation as a function of task complexity, *in prep.*

Simmons, C., **Behrmann, M.** and Ayzenberg, V. Functional Integration between Dorsal and Ventral Visual Pathways during Object 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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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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5. **Behrmann, M.** and Tipper, S. P. (1994). Object-based attentional mechanisms: Evidence from unilateral neglect. In C. Umiltà and M. Moscovitch (Eds.) *Attention and Performance XIV: Conscious and nonconscious processing and cognitive functioning*. A Bradford Book, MIT Press, Cambridge, MA, p351-376.
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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. (2025). Keynote speaker, ANTNeuro Neurometing, Franklin Institute, Philadelphia, April.

Sahel, J. A.... **Behrmann, M.** (2024) Updated Safety Results from the PIONEER study: Optogenetics for Non-Syndromic Retinitis Pigmentosa. The Macula Society.

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 ECVF Leuven, Belgium.

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

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

Zachariou V. Behrmann, M., Jiang, Y., Nikolajczyk, B. S., Kern, P. A. & Coskun, E. P. Reduced Face Perception in Aging Linked to Iron Accumulation in Face-Processing Brain Regions. Alzheimer's Association International Conference. Toronto.

Pinchuk Yacobi, N., Sagi, D., **Behrmann, M.** and Bonne, Y. (2025) Long-Range Serial Dependence Predicts the Specificity of Perceptual Learning. International Society for Autism Research.

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.

2025: • VISTA 2025: The Brain and Integrative Vision, York University, Toronto • Colloquium, Columbia University • Colloquium, Cognitive Science Department at Johns Hopkins University • Washington University, Society for Experimental Psychologists • Distinguished lecturer, Cole Eye Institute, Cleveland

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.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>
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