



CURRICULUM VITAE
DANA F. BOATMAN, PhD, CCC-A

Current Appointments

Associate Professor, Departments of Neurology and Otolaryngology, Johns Hopkins University

Contact Information

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Education and Training

B.A. French & Philosophy, Bryn Mawr College (cum laude), Bryn Mawr Pennsylvania
M.A. Linguistics, University of Pennsylvania, Philadelphia Pennsylvania
Ph.D. Applied Linguistics, University of Pennsylvania, Philadelphia Pennsylvania
M.S. Clinical Audiology, George Washington University, Washington DC

Positions

1996-2001 Assistant Professor, Neurology and Otolaryngology, Johns Hopkins University
2000-present Director, Neuro-Audiology Clinic, Johns Hopkins Hospital
2002-present Associate Professor, Neurology and Otolaryngology, Johns Hopkins University

Clinical Certifications

American Speech-Language and Hearing Association #01123886 (Audiology)
Maryland License: #0886

Honors and Awards

William E. Arnold Award for Research Excellence, University of Pennsylvania
Junior Investigator Award, Epilepsy Foundation of American
Howard Hughes Undergraduate Research Mentor Award
Clinical Neuroscience Award, The Dana Foundation
Clinical Research Award, American Hearing Research Foundation
Clinical Investigator Award, National Alliance for Autism Research
Presidential Early Career Award in Science and Engineering (PECASE)

Current Funding

NIDCD R01-DC005645
Complex Sound Processing in the Human Temporal Lobe
07/02-06/09
Principal investigator

NIDCD R21-DC007490
Assessment of Right Hemisphere Auditory Speech Function
04/05-03/07
Principal investigator

NINDS R01-NS40596
Electrocortical Studies of Cortical Function
07/05-06/10
Investigator (P.I. Nathan Crone, MD)

Selected Peer-Reviewed Publications

- Boatman D, Lesser R, Gordon B. Auditory speech processing in left temporal cortex: an electrical interference study. *Brain and Language*, 51: 269-290, 1995.
- Boatman D, Hall C, Goldstein M, Lesser R, Gordon B. Neuroperceptual differences in consonant and vowel discrimination: as revealed by direct cortical electrical interference. *Cortex*, 33(1): 83-98, 1997.
- Boatman D, Hart J, Lesser R, et al. Right hemisphere speech perception revealed by amobarbital injection and electrical interference. *Neurology*, 51(2): 458-464, 1998.
- Boatman D, Freeman J, Vining E, et al. Language recovery after left hemispherectomy in children with late onset seizures. *Annals of Neurology*, 46(4): 579-586, 1999.
- Boatman D, Hart J, Gordon B, Selnes O, Miglioretti D, Lenz F. Transcortical sensory aphasia: revisited and revised. *Brain*, 123: 1634-1642, 2000.
- Boatman D, Alidoost M, Bergey G, Gordon B, Crone N, Hart J, Lenz F. Right-hemisphere language in a right-handed patient with late-onset seizures. *Epilepsy and Behavior*, 1(4): 281-286, 2000.
- Boatman D, Krauss G. Language lateralization and early right-ear deafness: was Wernicke right? *Journal of Neurology, Neurosurgery, and Psychiatry*, 69(4): 538-540, 2000.
- Lenz F, Krauss G, Treede R, Lee J, Boatman D, Crone N, Minahan R. Different generators in human temporal-perisylvian cortex and subdural laser-evoked potentials, auditory-evoked potentials, and event-related potentials. *Neuroscience Letters*, 279(3): 153-156, 2000.
- Crone N, Boatman D, Gordon B, Hao L. Event-related synchronization in the gamma band during functional activation of auditory cortex. *Journal of Clinical Neurophysiology*, 112(4): 565-581, 2001.
- Boatman D. Speech perception after right hemispherectomy. *GOVOR/Speech*, 17(2): 129-140, 2001.
- Crone N, Hao L, Hart J, Boatman D, Lesser R, Irizarry R, Gordon B. Electrocorticographic gamma activity during word production in spoken and sign language. *Neurology*, 57 (1): 2045-2053, 2001.
- Moriarty J, Boatman D, Krauss G, Storm P, Lenz F. Human auditory 'memories' can be evoked by stimulation of lateral temporal cortex after ipsilateral medial temporal lobe resection. *Journal of Neurology, Neurosurgery, and Psychiatry*, 71: 549-551, 2001.
- Boatman D, Vining E, Freeman J, Carson B. Auditory processing studied prospectively in two hemidecortication patients. *Journal of Child Neurology*, 18(3): 228-232, 2003.
- Kossoff E, Boatman D, Freeman J. Landau-Kleffner Syndrome Responsive to Levetiracetam. *Epilepsy & Behavior*, 4: 571-575, 2003.
- Boatman D. Impaired speech sound perception in Asperger syndrome. *Journal of Developmental and Learning Disorders*, 7: 27-36, 2003.
- Miglioretti D, Boatman D. Modeling variability in the cortical representation of complex sound perception. *Experimental Brain Research* 153(3): 382-387, 2003.
- Ray S, Jouny C, Crone N, Boatman D, Thakor N, Franaszczuk P. Human ECoG Analysis during speech perception using matching pursuit: a comparison between stochastic and dyadic dictionaries. *IEEE-Biomedical Transactions*, 50(12): 1371-1373, 2003.
- Boatman D. Cortical bases of speech perception: evidence from functional lesion studies. *Cognition*, 92(1): 47-65, 2004.
- Sinha S, Crone N, Fotta R, Lenz F, Boatman D. Transient unilateral hearing loss induced by cortical stimulation. *Neurology*, 64: 383-385, 2005.

- Boatman D. Speech perception in a high-functioning child with autism. *GOVOR/SPEECH*, (2): 83-92, 2005.
- Sinai A, Bowers C, Crainceanu C, Boatman D, Gordon B, Lesser R, Lenz F, Crone N. Electrocorticographic high gamma activity during naming vs. electrical cortical stimulation. *Brain*, 128: 1556-1570, 2005.
- Boatman D, Miglioretti D. Cortical sites critical for speech discrimination in normal and impaired listeners. *Journal of Neuroscience*, 25: 5475-5480, 2005.
- Boatman D, Gordon B, Zimmerman A. Evaluating cortical auditory function in autism. *Journal of Developmental and Language Disorders*, in press.