

CURRICULUM VITAE

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Current Position

2006-present Postdoctoral Fellow, Center for Cognitive Neuroscience, Department of Neurology, University of Pennsylvania (August 2006 – present; H. Branch Coslett)

Education

- 2006 Ph.D., Cognitive Science, Johns Hopkins University (Baltimore, MD)
• Dissertation: *Somatosensory Frames of Reference* (advisor: Brenda Rapp)
- 2002 M.A., Cognitive Science, Johns Hopkins University (Baltimore, MD)
• Master's Thesis: *Representational Dynamism in the Somatosensory Hand Representation Subsequent to Cerebral Lesion* (advisor: Brenda Rapp)
- 1998 B.S., Psychology, with honors. University of Florida (Gainesville, FL)
B.A., Classics, with honors. University of Florida (Gainesville, FL)

Research Support

- 2007-2008 Pilot grant awarded by the Neuro-Cognitive Rehabilitation Research Network: “Neural Correlates of Kinematic Motor Learning” (July 2007 – June 2008)

Publications

Medina, J. & Rapp, B. (in press). Phantom tactile sensations modulated by body position. *Current Biology*.

Medina, J., Kannan, V., Pawlak, M., Kleinman, J., Newhart, M., Davis, C., Heidler-Gary, J., Herskovits, E., & Hillis, A. (in press). Neural substrates of visuospatial processing in distinct reference frames: Evidence from unilateral spatial neglect. *Journal of Cognitive Neuroscience*.

Rapp, B., Hendel, S.K., & Medina, J. (2002). Remodeling of somatosensory hand representations following cerebral lesions in humans. *Neuroreport*, 13, 207-211.

Manuscripts Under Review

Medina, J., Jax, S.A., & Coslett, H.B. (2008). *Maintenance of Internal Models Requires Proprioception: Evidence from Deafferentation*. Manuscript submitted for publication. Available upon request.

Medina, J., Jax, S.A., Brown, M.J., & Coslett, H.B. (2008). *Efference Copy Access in Initial but not Terminal Stages of Movement: Evidence from Deafferentation*. Manuscript submitted for publication. Available upon request.

Medina, J., Jax, S.A., & Coslett, H.B. (2008). *Representing limb location: Neural substrates of predicted state and sensory state information*. Manuscript submitted for publication. Available upon request.

Manuscripts in Preparation

Medina, J., & Rapp, B. (2008). *Somatotopic and non-somatotopic frames of reference – Evidence from the Simon effect*.

Medina, J., & Rapp, B. (2008). *Representational dynamism in the somatosensory hand representation subsequent to cerebral lesion*.

Conference Presentations

Coslett, H.B. & Medina, J. (2007). Reaching with and without vision after deafferentation. Poster presented at the 37th Annual Meeting of the Society for Neuroscience, San Diego.

Medina, J. & Rapp, B. (2007). Multiple somatosensory frames of reference: Evidence from the Simon effect. Poster presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach.

Medina, J., Jax, S.A., & Coslett, H.B. (2007b). Reaching to moving targets after deafferentation. Poster presented at Progress in Motor Control VI, Santos, Brazil.

Medina, J., Jax, S.A., & Coslett, H.B. (2007a). Representing Effector Location: Contributions of Predicted State and Sensory State Information. Poster presented at the 14th annual meeting of the Cognitive Neuroscience Society, New York City.

Medina, J. & Rapp, B. (2006b). Somatosensory Frames of Reference: A Case of Tactile Synchiria. Talk given at the Tactile Research Group meeting, Houston.

Medina, J., & Rapp, B. (2006a). Tactile Perception Modulated by Body Position. Poster presented at the 13th annual meeting of the Cognitive Neuroscience Society, San Francisco.

Medina, J., & Rapp, B. (2004). A Case of Tactile Synchiria: Preserved Somatotopy? Poster presented at the 32nd Annual Meeting of the International Neuropsychological Society, Baltimore.

Medina, J., & Hillis, A. (2003c). Using MR perfusion and diffusion imaging to identify neural substrates of specific types of unilateral spatial neglect. Talk given at the 4th International Conference on Cognitive Science, Sydney, Australia.

Medina, J., & Hillis, A. (2003b). Identifying neural regions for distinct types of unilateral spatial neglect using MR perfusion and diffusion imaging. Talk given at the IGERT Student Research Symposium, Pittsburgh.

Medina, J., Barker, P., Jacobs, M., Wityk, R., & Hillis, A. (2003). Neural Substrates of Specific Types of Unilateral Spatial Neglect: Evidence from MR Perfusion and Diffusion Imaging. Talk given by Argye Hillis at the 55th annual meeting of the American Academy of Neurology, Honolulu.

Medina, J., & Hillis, A. (2003a). Neural Substrates of Distinct Patterns of Unilateral Spatial Neglect. Poster presented at the 10th annual meeting of the Cognitive Neuroscience Society, New York City.

Medina, J., & Rapp, B. (2002). The plasticity of somatosensory representations following cerebral lesions in adult humans. Poster presented at the 9th annual meeting of the Cognitive Neuroscience Society, San Francisco.

Teaching Assistance

Language and Mind, Johns Hopkins University, Fall 2000.

Introduction to Cognitive Neuropsychology, Johns Hopkins University, Fall 2001.

Cognitive Neuroscience: Exploring the Living Brain, Johns Hopkins University, Spring 2002, 2003, 2004.

Topics in Neuroscience, Johns Hopkins University, Spring 2002.

Foundations in Cognitive Science, Johns Hopkins University, Fall 2002.

Reading and Writing: Normal Processes and Disorders, Johns Hopkins University, Fall 2003.

Professional Affiliations

Member, Cognitive Neuroscience Society (2002-present)

Member, Tactile Research Group (2006-present)

Associate Member, Psychonomic Society (2007-present)

Member, Society for Neuroscience (2007-present)

Ad-hoc Reviewer

Behavioural Neurology, Cognitive and Behavioral Neurology, Journal of Cognitive Neuroscience, Neuropsychologia, and Psychological Science

Additional activities

Supervision of six undergraduates engaged in research in cognitive neuropsychology at Johns Hopkins University.

Participation in high school outreach activities in Baltimore, MD in conjunction with Brain Awareness Week.

References

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