

# Jared Medina

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## Current Position

2018- Associate Professor, Department of Psychology and Brain Sciences, University of Delaware

## Positions Held

2012-2018 Assistant Professor, Department of Psychology and Brain Sciences, University of Delaware

2011-2012 Visiting Assistant Research Professor, Department of Neurology, Center for Cognitive Neuroscience, University of Pennsylvania

2009-2012 Visiting Assistant Professor, Department of Psychology, Haverford College

2006-2011 Postdoctoral Fellow, Department of Neurology, Center for Cognitive Neuroscience, University of Pennsylvania (advisors: H. Branch Coslett, Roy Hamilton)

## Education

2006 Ph.D., Cognitive Science, Johns Hopkins University (advisor: Brenda Rapp)

2002 M.A., Cognitive Science, Johns Hopkins University

1998 B.S., Psychology; B.A., Classics, with honors. University of Florida

## **Publications**

Liu, Y., & **Medina, J.** (in press). Visuoproprioceptive conflict in hand position biases tactile localization on the hand. *Journal of Experimental Psychology: Human Perception & Performance*.

Liu, Y., O'Neal, A., Rafal, R.D. & **Medina, J.** (2020). Intact tactile detection yet biased tactile localization in a hand-centered frame of reference: A case study. *Neuropsychologia*, 147, 107585.

**Medina, J.**, Jax, S.A., & Coslett, H.B. (2020). Impairments in action and perception after right intraparietal damage. *Cortex*, 122, 288-299.

**Medina, J.**, Theodoropoulos, N., Reyes, P. & Gherri, E. (2019). External coding and salience in the tactile Simon effect. *Acta Psychologica*, 198, 102874.

Erlikhman, G., Caplovitz, G.P., Gurariy, G., **Medina, J.** & Snow, J.C. (2018). Towards a unified perspective of object shape and motion processing in human dorsal cortex. *Consciousness and Cognition*, 64, 106-120.

Ambrosio, E., White, N., Faseyitan, O., Kessler, S.K., **Medina, J.** & Coslett, H.B. (2018). Magnifying the view of the hand changes its cortical representation: A transcranial magnetic stimulation study. *Journal of Cognitive Neuroscience*, 30(8), 1098-1107.

Shah-Basak, P.P., Chen, P., Caulfield, K., **Medina, J.** & Hamilton, R.H. (2018). The role of the right superior temporal gyrus in stimulus-centered spatial processing. *Neuropsychologia*, 113, 6-13.

Liu, Y., & **Medina, J.** (2018). Integrating Multisensory Information across External and Motor-based Frames of Reference. *Cognition*, 173, 75-86.

**Medina, J.**, & Cason, S. (2017). No Evidential Value in Samples of Transcranial Direct Current Stimulation (tDCS) Studies of Cognition and Working Memory in Healthy Populations. *Cortex*, 94, 131-141.

Liu, Y., & **Medina, J.** (2017). Influence of the Body Schema on Multisensory Integration: Evidence from the Mirror Box Illusion. *Scientific Reports*, 7: 5060.

**Medina, J., & Fischer-Baum, S.** (2017). Single-case Cognitive Neuropsychology in the Age of Big Data. *Cognitive Neuropsychology*, 34, 440-448.

Brooks, J., & **Medina, J.** (2017). Perceived location of touch. *Scholarpedia*, 12(4):42285.

**Medina, J., & Duckett, C.** (2017). Domain-general biases in spatial localization: Evidence against a distorted body model hypothesis. *Journal of Experimental Psychology: Human Perception and Performance*, 43(7), 1430-1443.

**Medina, J., & DePasquale, C.** (2017). Influence of the Body Schema on Mirror-Touch Synesthesia. *Cortex*, 88, 53-65.

**Medina, J., & Coslett, H.B.** (2016). Understanding body representations. *Cognitive Neuropsychology*, 33, 1-4.

**Medina, J., & Coslett, H.B.** (2016). What can errors tell us about body representations? *Cognitive Neuropsychology*, 33, 5-25.

**Medina, J., Drebing, D.E., Hamilton, R.H., & Coslett, H.B.** (2016). Phantoms on the hands: Influence of the body on brief synchiric visual percepts. *Neuropsychologia*, 82, 104-109.

**Medina, J., Khurana, P., & Coslett, H.B.** (2015). The influence of embodiment on multisensory integration using the mirror box illusion. *Consciousness and Cognition*, 37, 71-82.

**Medina, J., McCloskey, M., Coslett, H.B., & Rapp, B.** (2014). Somatotopic Representation of Location: Evidence from the Simon Effect. *Journal of Experimental Psychology: Human Perception and Performance*, 40, 2131-2142.

**Medina, J., & Rapp, B.** (2014). Rapid experience-dependent plasticity following somatosensory damage. *Current Biology*, 24, 677-680.

**Medina, J., Beauvais, J., Datta, A., Bikson, M., Coslett, H.B., & Hamilton, R.H.** (2013). Transcranial direct current stimulation accelerates allocentric target detection. *Brain Stimulation*, 6, 433-439.

**Medina, J., Norise, C., Faseyitan, O., Coslett, H.B., Turkeltaub, P., & Hamilton, R.** (2012). Finding the Right Words: Transcranial Magnetic Stimulation Improves

Discourse Productivity in Non-fluent Aphasia After Stroke. *Aphasiology*, 26, 1153-1168.

Khurshid, S., Trupe, L.A., Newhart, M., Davis, C., Molitoris, J.J., **Medina, J.**, Leigh, R., & Hillis, A.E. (2012). Reperfusion of Specific Areas is Associated with Improvement in Distinct Forms of Hemispatial Neglect. *Cortex*, 48, 530-539.

Coslett, H.B., **Medina, J.**, Kliot, D., & Burkey, A. (2010). Mental motor imagery indexes pain: The hand laterality task. *European Journal of Pain*, 14, 1007-1013.

**Medina, J.**, Jax, S.A., Brown, M.J., & Coslett, H.B. (2010). Contributions of Efference Copy to Limb Localization: Evidence from Deafferentation. *Brain Research*, 1355, 104-111.

Coslett, H.B., **Medina, J.**, Kliot, D., & Burkey, A. (2010). Mental Motor Imagery and Chronic Pain: The Foot Laterality Task. *Journal of the International Neuropsychological Society*, 16, 603-612.

**Medina, J.**, & Coslett, H.B. (2010). From Maps to Form to Space: Touch and the Body Schema. *Neuropsychologia*, 48, 645-654.

**Medina, J.**, Kimberg, D.Y., Chatterjee, A., & Coslett, H.B. (2010). Inappropriate usage of the Brunner-Munzel test in recent voxel-based lesion-symptom mapping studies. *Neuropsychologia*, 48, 341-343.

**Medina, J.**, Kannan, V., Pawlak, M., Kleinman, J., Newhart, M., Davis, C., Heidler-Gary, J., Herskovits, E., & Hillis, A. (2009). Neural substrates of visuospatial processing in distinct reference frames: Evidence from unilateral spatial neglect. *Journal of Cognitive Neuroscience*, 21, 2073-2084.

**Medina, J.**, Jax, S.A., & Coslett, H.B. (2009). Two-Component Models of Reaching: Evidence from Deafferentation in a Fitts' Law Task. *Neuroscience Letters*, 451, 222-226.

**Medina, J.**, & Rapp, B. (2008). Phantom tactile sensations modulated by body position. *Current Biology*, 18, 1937-1942.

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

**Grants Awarded**

- 2019-2023 **National Science Foundation (CMMI-1934650)**  
“Understanding and Enhancing Proprioception via Model-Based Human-Robot Interactions”  
PI: Jennifer Semrau (Univ. of Delaware)  
Co-PI: Jared Medina  
Total Costs: \$748,231
- 2016-2021 **National Science Foundation (OIA-1632849)**  
“RII Track-2 FEC: Neural networks underlying the integration of knowledge and perception”  
PI: Jared Medina  
Total Costs: \$6,000,000
- 2016-2018 **National Institutes of Health, subcontract (U54 GM104941)**  
“Examining Somatosensory Plasticity After Stroke”  
PI: Stuart Binder-Macleod (Univ. of Delaware)  
Pilot project PI: Jared Medina  
Total Costs: \$85,000
- 2016-2017 **National Institutes of Health, subcontract (P50 DC012283)**  
“Neurobiology of Language Recovery in Aphasia: Natural History and Treatment”  
PI: Cynthia Thompson (Northwestern)  
Subcontract PI: Jared Medina  
Total Costs: \$15,000
- 2013-2015 **University of Delaware Research Foundation (13A00851)**  
“Understanding the Body Schema – The Cognitive Neuroscience of Body Representation”  
PI: Jared Medina  
Total costs: \$35,000
- 2011-2013 **University of Pennsylvania Institute of Aging**  
“Transcranial Direct Current Stimulation to Enhance Language Recovery in Patients with Aphasia after Subacute Stroke”  
PIs: Jared Medina & Roy Hamilton  
Total costs: \$50,000

2007-2009    **National Institutes of Health, subcontract (R24 HD050836)**  
“Neural Correlates of Kinematic Motor Learning”  
PI: John Whyte  
Co-PI: Jared Medina  
Total costs: \$12,000

### **Invited Talks**

2020 Feb    Harvard University (Caramazza Lab)  
2019 Nov    University of Nevada - Reno  
2018 Mar    Medical University of South Carolina  
2018 Feb    Nemours Children’s Hospital  
2018 Jan    National Institute on the Teaching of Psychology  
2017 Nov    University of New South Wales  
2017 Nov    Macquarie University  
2017 Apr    Emory University  
2017 Jan    Johns Hopkins University  
2016 Jun    Beijing Normal University  
2014 Jun    Universitat di Hamburg  
2014 Feb    Rice University  
2014 Feb    University of Pennsylvania, Department of Neuropsychiatry  
2014 Jan    Center for Mind/Brain Sciences (CiMEC), University of Trento  
2012 Apr    University of Chicago (Goldin-Meadow Lab)  
2012 Jan    Johns Hopkins University  
2011 Feb    Mount Holyoke College

### **Presentations**

#### *Conference & Workshop Talks*

**Medina, J.** (2018). Influence of stored body representations on multisensory integration. Talk given at the 18<sup>th</sup> International Multisensory Research Forum, Toronto.

**Medina, J.** (2018). Examining embodiment using the mirror box illusion. Talk given at Attention and Awareness, New York City.

**Medina, J.** (2017). Disembodying touch with the mirror box illusion. Talk given at the 58<sup>th</sup> annual meeting of the Psychonomic Society, Vancouver.

**Medina, J.** (2017). No evidential value in tDCS studies of cognition and working memory. Talk given at the University of Nebraska NSF EPSCoR Core Outreach Workshop, Lincoln.

**Medina, J.** (2017). Examining somatosensory plasticity and behavioral recovery after stroke. Talk given at the 4<sup>th</sup> Annual Meeting of the Delaware Clinical and Translational Research Program, Newark.

**Medina, J.** (2017). Sensory deficits and motor function after stroke: Evidence from single subject fMRI. Talk given at Stroke Recovery Research: From Translational Science to Community Based Research, Charleston.

**Medina, J.** (2016). Patterns of tactile localization after damage to somatosensory cortex. Talk given at the Tactile Research Group meeting, Boston.

Liu, Y., & **Medina, J.** (2016). Influence of the Body Schema on Multisensory Integration: Evidence from the Mirror Box Illusion. Talk given at the 57<sup>th</sup> Annual Meeting of the Psychonomic Society, Boston.

**Medina, J.** (2016). The landmark localization task and domain-general biases: evidence against a distorted body model hypothesis. Talk given at the 16<sup>th</sup> International Multisensory Research Forum, Suzhou, China.

**Medina, J.** (2016). Single case cognitive neuropsychology in the 21<sup>st</sup> century. Plenary session talk at the European Workshop in Cognitive Neuropsychology, Bressanone, Italy.

**Medina, J.** (2014). Mirror-touch synesthesia: Effects of body position on percept localization. Talk given at the 55<sup>th</sup> Annual Meeting of the Psychonomic Society, Long Beach.

**Medina, J.,** Baumert, E., & Ziegler, M. (2014). Knowledge of hand configuration without knowledge of hand location. Talk given at the 15<sup>th</sup> International Multisensory Research Forum, Amsterdam, the Netherlands.

**Medina, J.,** Jax, S.A., & Coslett, H.B. (2014). Impairments in action and perception after right intraparietal damage. Talk given at the European Workshop in Cognitive Neuropsychology, Bressanone, Italy.

**Medina, J.**, Khurana, P., & Coslett, H.B. (2013). Embodiment and the mirror box illusion. Talk given at the Tactile Research Group meeting, Toronto, Canada.

**Medina, J.** (2013). Dynamic shifts in tactile localization after stroke. Invited symposium talk given at the 14<sup>th</sup> International Multisensory Research Forum, Jerusalem, Israel.

**Medina, J.**, Khurshid, S., Hamilton, R.H., & Coslett, H.B. (2012). Examining tactile spatial remapping using transcranial magnetic stimulation. Talk given at the 13<sup>th</sup> International Multisensory Research Forum, Oxford, England.

**Medina, J.**, Hamilton, R.H., Norise C., Turkeltaub, P.E., & Coslett, H.B. (2011). Transcranial Magnetic Stimulation Improves Discourse Productivity in Nonfluent Aphasics. Talk presented at the 49<sup>th</sup> Meeting of the Academy of Aphasia, Montreal, Canada.

**Medina, J.**, Drebing, D.E., Hamilton, R.H., & Coslett, H.B. (2011). A case of phantom synchiric percepts in touch and vision. Talk presented at the 12<sup>th</sup> International Multisensory Research Forum, Fukuoka, Japan.

Rapp, B., & **Medina, J.** (2010). Somatosensory frames of reference. Invited plenary lecture presented at the European Workshop on Cognitive Neuropsychology, Bressanone, Italy.

**Medina, J.**, & Rapp, B. (2009). Dynamic shifts in tactile localization following stroke. Talk presented at the Tactile Research Group meeting, Boston.

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

**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 55<sup>th</sup> annual meeting of the American Academy of Neurology, Honolulu.

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



**Medina, J., & Hillis, A.** (2003). 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.

*Symposium Organizer*

**Medina, J. & Yau, J.** (2018). Multisensory Integration and the Body – International Multisensory Research Forum, Toronto. Speakers: Stephanie Badde, Sarah D’Amour, Marie Martel, Jared Medina, Luke Miller, Jeffrey Yau

**Medina, J. & Fischer-Baum, S.** (2016). Single-Case Cognitive Neuropsychology in the 21<sup>st</sup> century – European Workshop on Cognitive Neuropsychology. Speakers: Daniel Dilks, Simon Fischer-Baum, Marina Laganaro, Jared Medina, Michael McCloskey, Tim Shallice.

*Posters*

O’Neal, A., & **Medina, J.** (2019). Vicarious Touch Influences Tactile Processing. Poster presented at the 60<sup>th</sup> Annual Meeting of the Psychonomic Society, Montreal, Canada.

Liu, Y., O’Neal, A. & **Medina, J.** (2019). Nonsomatotopic Spatial Biases in Tactile Localization with Normal Tactile Detection: A Case Study. Poster presented at the 37<sup>th</sup> European Workshop on Cognitive Neuropsychology, Bressanone, Italy.

Leach, W., & **Medina, J.** (2019). A Body You Couldn't Have: Eliciting Embodiment for Impossible Postures Using the Mirror Box Illusion. Poster presented at the 37<sup>th</sup> European Workshop on Cognitive Neuropsychology, Bressanone, Italy.

Liu, Y., Grzenda, M., & **Medina, J.** (2018). Modeling uncertainty to understand biases in tactile localization after brain damage. Poster presented at Hand, Brain and Technology 2018, Ascona, Switzerland.

**Medina, J. & Liu, Y.** (2018). Somatosensory and motor reorganization after stroke: Evidence from fMRI in humans. Poster presented at Hand, Brain and Technology 2018, Ascona, Switzerland.

Liu, Y., O'Neal, A., & **Medina, J.** (2018). Biased tactile localization with an intact somatosensory system: A case study. Poster presented at the 25<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, Boston.

Liu, Y., & **Medina, J.** (2017). Multiple mechanisms underlying shifts in perceived limb position in the mirror box illusion. Poster presented at the 58<sup>th</sup> annual meeting of the Psychonomic Society, Vancouver.

Liu, Y., Faseyitan, O., Coslett, H.B., & **Medina, J.** (2017). Motor and somatosensory reorganization in a patient with a somatosensory lesion. Poster presented at the 47<sup>th</sup> annual meeting of the Society for Neuroscience, Washington, D.C.

Liu, Y., & **Medina, J.** (2017). Two mechanisms for shifts in perceived limb position in the mirror box illusion. Poster presented at the 17<sup>th</sup> International Multisensory Research Forum, Nashville.

**Medina, J.**, & Katz, S. (2017). Disembodied touch: A mirror induced illusion. Poster presented at the 17<sup>th</sup> International Multisensory Research Forum, Nashville.

Liu, Y., & **Medina, J.** (2016). Corporeal constraints on multisensory integration: Evidence from the mirror box illusion. Poster presented at the 16<sup>th</sup> International Multisensory Research Forum, Suzhou, China.

Cason, S., & **Medina, J.** (2016). Examining the evidential value of tDCS studies using a p-curve analysis. Poster presented at the 23<sup>rd</sup> annual meeting of the Cognitive Neuroscience Society, New York.

Grzenda, M., & **Medina, J.** (2016). Biases in tactile localization subsequent to cortical damage. Poster presented at the 23<sup>rd</sup> annual meeting of the Cognitive Neuroscience Society, New York.

Liu, Y., & **Medina, J.** (2016). Beyond modalities: Integrating multisensory information across different reference frames. Poster presented at the 23<sup>rd</sup> annual meeting of the Cognitive Neuroscience Society, New York.

**Medina, J.**, Faseyitan, O., & Coslett, H.B. (2015). Post-stroke cortical reorganization subsequent to somatosensory lesion. Poster presented at the 22<sup>nd</sup> annual meeting of the Cognitive Neuroscience Society, San Francisco.

Liu, Y., & **Medina, J.** (2015). Examining spatial and motor congruence in a mirror box illusion. Poster presented at the 16<sup>th</sup> International Multisensory Research Forum, Pisa, Italy.

**Medina, J.**, & DePasquale, C. (2015). Visual interference and subtypes of mirror-touch synesthesia. Poster presented at the 16<sup>th</sup> International Multisensory Research Forum, Pisa, Italy.

**Medina, J.**, & DePasquale, C. (2014). Feeling your touch: Spatial frames of reference and subtypes of mirror-touch synesthesia. Poster presented at the 44<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington, DC.

**Medina, J.**, & DePasquale, C. (2014). Influences of the body schema on mirror-touch synesthesia. Poster presented at the 15<sup>th</sup> International Multisensory Research Forum, Amsterdam, the Netherlands.

Coslett, H.B., & **Medina, J.** (2014). Using TMS to examine visual contributions to the body schema. Poster presented at the 21<sup>st</sup> annual meeting of the Cognitive Neuroscience Society, Boston.

**Medina, J.**, Baumert, E., & Ziegler, M. (2014). Dissociating the body schema: Evidence from two case studies. Poster presented at the 66<sup>th</sup> annual meeting of the American Academy of Neurology, Philadelphia.

Coslett, H.B., & **Medina, J.** (2014). Apparent body size alters motor function. Poster presented at the 66<sup>th</sup> annual meeting of the American Academy of Neurology, Philadelphia.

Coslett, H.B., Faseyitan, O., **Medina, J.**, & Iannaccone, M. (2014). Effects of gaze, head and hand location on motor function: Evidence from TMS in normal subjects. Poster presented at the 66<sup>th</sup> annual meeting of the American Academy of Neurology, Philadelphia.

**Medina, J.**, Khurana, P., & Coslett, H.B. (2013). Action and embodiment in a mirror box illusion. Poster presented at the 14<sup>th</sup> International Multisensory Research Forum, Jerusalem, Israel.

Norise, C., Garcia, G., Beauvais, J., Faseyitan, O., Drebing, D., **Medina, J.**, & Hamilton, R. (2013). Individually-Targeted Transcranial Direct Current Stimulation Enhances Language Recovery in Patients with Chronic Non-Fluent

Aphasia. Data blitz presentation at the 65<sup>th</sup> Annual Meeting of the American Academy of Neurology, San Diego.

**Medina, J.**, Khurana, P., & Coslett, H.B. (2013). Manipulating Action in the Mirror Box Illusion. Poster presented at the 20<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco.

Norise C., Beauvais J., Drebing D., Faseyitan O., **Medina J.**, & Hamilton R.H. (2012). Individually-Guided Transcranial Direct Current Stimulation Facilitates Lasting Improvement in Patients with Non-Fluent Aphasia: A Pilot Study. Poster presented at the 50<sup>th</sup> Academy of Aphasia Annual Meeting, San Francisco.

Novick, A., Fiddes, N., Huber, T., & **Medina, J.** (2012). Response type and sex differences in a tactile temporal order judgment task with tools. Poster presented at the 13<sup>th</sup> International Multisensory Research Forum, Oxford, England.

Iannacone, M., & **Medina, J.** (2012). The rubber hand illusion and the tactile Simon effect. Poster presented at the 13<sup>th</sup> International Multisensory Research Forum, Oxford, England.

Drebing, D., **Medina, J.**, Coslett, B., Shenton, J.T., & Hamilton, R.H. (2012). An acquired deficit of intermodal temporal processing for audiovisual speech: A case study. Poster presented at the 13<sup>th</sup> International Multisensory Research Forum, Oxford, England.

**Medina, J.**, Drebing, D.E., Coslett, H.B., & Hamilton, R.H. (2012). Phantoms and the body schema: A case of tactile and visual synchiria. Poster presented at the 19<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, Chicago.

Khurshid, S., **Medina, J.**, Hamilton, R.H., & Coslett, H.B. (2012). Dissecting the body schema: Transcranial magnetic stimulation and the tactile temporal order judgment task. Poster presented at the 19<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, Chicago.

**Medina, J.**, Beauvais, J.C., Huber, E., Oliner, R., Coslett, H.B., & Hamilton, R.H. (2011). Transcranial direct current stimulation influences contralateral visual target detection. Poster presented at the 41<sup>st</sup> Annual Meeting of the Society for Neuroscience, Washington, DC.

**Medina, J.**, Greenberg, M.P., Coslett, H.B., & Hamilton, R.H. (2011). Somatotopic representation of visual stimuli – Evidence from the Simon effect. Poster presented at the 12<sup>th</sup> International Multisensory Research Forum, Fukuoka, Japan.

Norise, C., **Medina, J.**, Coslett, H.B., & Hamilton, R.H. (2011). Fostering Fluency: Transcranial Magnetic Stimulation Improves Fluency in Subjects with Chronic Nonfluent Aphasia. Poster presented at the 18<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco.

**Medina, J.**, Kliot, D., & Coslett, H.B. (2010). Effects of Perceived Limb Position on a Tactile Simon Effect Task. Poster presented at the 51<sup>st</sup> Annual Meeting of the Psychonomic Society, St. Louis.

**Medina, J.**, Jax, S.A., Prasad, S., & Coslett, H.B. (2010). Role of visual guidance in reaching after right intraparietal sulcus resection. Poster presented at the 10<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples.

**Medina, J.**, Benson, J., & Coslett, H.B. (2010). Differential Effects of Magnified Vision of the Arm on Tactile and Motor Tasks. Poster presented at the 17<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, Montreal, Canada.

**Medina, J.**, Jax, S.A., & Coslett, H.B. (2009). The neural correlates of kinematic motor learning: a transcranial magnetic stimulation study. Poster presented at the 39<sup>th</sup> Annual Meeting of the Society for Neuroscience, Chicago.

Jax, S.A., **Medina, J.**, & Coslett, H.B. (2009). Disrupted generalization of visuomotor rotation learning following cerebellar stroke. Poster presented at the 19<sup>th</sup> meeting of the Society for the Neural Control of Movement, Waikoloa, Hawaii.

Kannan, V.C., Pawlak, M.A., **Medina, J.**, Herskovits, E.H., & Hillis, A.E. (2008). Brain Voxels Associated with Distinct Neglect Subtypes. Poster presented at the 133<sup>rd</sup> Annual Meeting of the American Neurological Association, Salt Lake City.

Coslett, H.B., & **Medina, J.** (2007). Reaching with and without vision after deafferentation. Poster presented at the 37<sup>th</sup> 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 48<sup>th</sup> Annual Meeting of the Psychonomic Society, Long Beach.

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

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

**Medina, J., & Rapp, B. (2006).** Tactile Perception Modulated by Body Position. Poster presented at the 13<sup>th</sup> 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 32<sup>nd</sup> Annual Meeting of the International Neuropsychological Society, Baltimore.

**Medina, J., & Hillis, A. (2003).** Neural Substrates of Distinct Patterns of Unilateral Spatial Neglect. Poster presented at the 10<sup>th</sup> 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 9<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, San Francisco.

### **Accomplishments**

#### *Awards and honors*

Howard Hughes Medical Institute Post-Doctoral Teaching Fellowship, Haverford College (2009-2011).

National Science Foundation, Integrative Graduate Education & Research Training (IGERT) Fellowship (2000-2005).

National Hispanic Merit Scholarship (awarded to the top Hispanic high school students in the United States), University of Florida (1993-1997).

### ***Popular Press***

Our mirror-touch synesthesia research was covered by the [Huffington Post](#), the [Boston Herald](#), [Business Insider](#), [Vice](#), and [NSF Discovery Files](#).

Research on the tactile Simon effect covered in “[Rinks oder lechts?](#)” Article in Jan/Feb 2011 issue of *Gehirn & Geist* (sister publication to *Scientific American Mind*, in German).

Research on tactile synchiria featured in [Faculty of 1000](#) and [Science Blogs – Neurophilosophy](#).

### ***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)

### ***Grant Reviewer***

Czech Science Foundation, European Research Council, Fonds de la Recherche Scientifique/Fund for Scientific Research (Belgium), Israel Science Foundation, Leverhulme Trust, National Science Foundation, Research Grants Council of Hong Kong, Wellcome Trust.

### ***Ad-hoc Reviewer***

*Acta Psychologica, Attention, Perception & Psychophysics, Behavioural Neurology, Brain and Language, Brain Stimulation, Cerebral Cortex, Clinical Psychology Review, Cognition, Cognitive and Behavioral Neurology, Cognitive Neuropsychology, Cognitive Neuroscience, Cognitive Processing, Consciousness & Cognition, Cortex, Current Biology, Developmental Medicine & Child Neurology, eLife, European Journal of Neuroscience, Experimental Brain Research, Frontiers in Human Neuroscience, Frontiers in Cognitive Science, Human Movement Science, Japanese Psychological Research, Journal of Cognitive Neuroscience, Journal of Cognitive Psychology, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Human Perception and Performance, Journal of the International Neuropsychological Society, Journal of Neurophysiology, Journal of Neuroscience, Neuroimage: Clinical, Neurology, Neuropsychologia, Neurorehabilitation & Neural Repair, Neuroscience & Biobehavioral*

*Reviews, Neuroscience Letters, PeerJ, Perception, PLOS One, Psychological Science, Quarterly Journal of Experimental Psychology, Scientific Reports, Social Cognitive and Affective Neuroscience, and Topics in Stroke Rehabilitation.*

### ***Dissertation Defense Committees***

Emma Beisheim, Physical Therapy  
Greg Wade, Cognitive Psychology  
Minwoo Kim, Cognitive Psychology  
Morgan Sherer, Behavioral Neuroscience  
Patrese Robinson-Drummer, Behavioral Neuroscience

### ***Lab Graduates***

Yuqi Liu (Ph.D.)  
William Leach (M.A.)

### ***Other***

External examiner, Ph.D thesis, University of Queensland  
External examiner, Master's thesis, Macquarie University

### **Teaching Experience**

#### ***Courses Taught***

*Introduction to Cognitive Neuroscience*, Haverford College, Fall 2009, Spring 2011.

*Foundations of Psychology*, Haverford College, Fall 2011, Spring 2012.

*Experimental Methods & Statistics Lab*, Haverford College, Fall 2011.

*Advanced Topics in Psychology: Body and Space*, Haverford College, Spring 2012;  
University of Delaware, Spring 2014, Fall 2017, Fall 2020.

*Honors General Psychology*, University of Delaware, Fall 2012, Spring 2013, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Spring 2018, Fall 2018, Fall 2019, Fall 2020.

*Cognition*, University of Delaware, Fall 2014, Fall 2015, Spring 2016, Spring 2017, Fall 2017, Spring 2019.



**Nominated for Excellence in Teaching Award, Univ. of Delaware, 2014, 2016, 2020.**

**Nominated for Excellence in Honors Teaching Award, Univ. of Delaware, 2020.**

**Additional activities**

*Mentorship*

Supervision of >50 undergraduates engaged in research in cognitive neuroscience at the University of Delaware, University of Pennsylvania and Johns Hopkins University.

Supervision of eight University of Delaware Summer Scholars, four NSF REUs, one McNair Scholar, four undergraduate independent research projects and nine senior thesis projects.

*Outreach and Service*

Director - *Summer Undergraduate Workshop in Cognitive and Brain Sciences* (2017-present, a two-week NSF-funded student workshop for STEM undergraduates interested in a career in the cognitive sciences, held at the University of Delaware).

Chair – Diversity Committee, Dept. of Psychological and Brain Sciences (2017-present)

Invited Speaker – Delaware Stroke Initiative Annual Meeting, 2013.

Frequent speaker at local stroke support groups.

Instructor – Penn Neuroscience Boot Camp, August 2010, August 2011.

Invited Speaker – Penn Undergraduate Neuroscience Society, February 2011.