

**CURRICULUM VITAE****PERSONAL HISTORY:****Name:** Agatha Lenartowicz, Ph.D.**Work Address:** UCLA Semel Institute for Neuroscience and Human Behavior  
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[https://www.researchgate.net/profile/Agatha\\_Lenartowicz/?ev=hdr\\_xprf](https://www.researchgate.net/profile/Agatha_Lenartowicz/?ev=hdr_xprf)**Research Statement:** The objective of my research is to define the source mechanisms and neural dynamics of attention deficits in both disease states (e.g., ADHD, depression, anxiety) and in healthy adults. Unique to my work, I employ multimodal neuroimaging methods (EEG & fMRI) to investigate these brain dynamics across temporal scales, systems, and states.**EDUCATION:**

2002	B.Sc.Hon (Psychology), University of Toronto
2004	M.A. (Psychology and Neuroscience), Princeton University
2008	Ph.D. (Psychology and Neuroscience), Princeton University

**PROFESSIONAL EXPERIENCE:****ACADEMIC APPOINTMENTS:**

2008-2010	Post-Doctoral Fellow, UCLA	(PI: Poldrack, R.A.)
2010-2012	Post-Doctoral Fellow, UCLA	(PI: Cohen, M.S.)
2012-	Assistant Research Neuroscientist (UCLA)	
2014-	Managing Director (Staglin IMHRO Center for Cognitive Neuroscience)	

**HONORS AND SPECIAL AWARDS:**

Postgraduate Fellowship, NSER Canada	2002
Honours Medal for Academic Merit, University of Toronto	2002
Graduated with Honours, University of Toronto	2002
Psychology Merit Award, University of Toronto	2002
Admission Merit Award, Princeton University	2002
Postgraduate Fellowship, Masters, NSER Canada	2003-2005
Canadian Programme Research Funding, Princeton University	2004
Postgraduate Fellowship, Doctorate, NSER Canada	2005-2007
Quinn Morton Teaching Award, Princeton University	2007-2008
Horizons Pacific Rim Neuroscience Meeting Fellow	2010
Klingenstein Third Generation Fellow	2012-2014

**BIBLIOGRAPHY****RESEARCH PAPERS**

1. **Lenartowicz, A.**, & McIntosh, A.R. (2005). The role of anterior cingulate cortex in working memory shaped by functional connectivity. *Journal of Cognitive Neuroscience*, 17(7). pp.1026-1042. PMID: 16102235
2. Rowe, G., Valderrama, S., Hasher, L., & **Lenartowicz, A.** (2006). Attention dis-regulation: A benefit for implicit memory. *Psychology & Aging*, 21(4). pp. 826-830. PMID: 17201503
3. **Lenartowicz, A.**, & Cohen, J.D., (2010). Updating working memory for context: An event related potential study. *Cognitive, Affective & Behavioral Neuroscience Journal*, 10, 298-315. PMID: 20498352
4. **Lenartowicz, A.**, Yeung, N., Cohen, J.D., (2010). No-go trials can modulate switch cost by interfering with effects of task preparation. *Psychological Research*, 75(1), 66-76. PMID: 20473686
5. **Lenartowicz, A.**, Kalar, D., Congdon, E., Poldrack, R. A., (2010), Towards an Ontology of Cognitive Control, *Topics in Cognitive Science*, 2(4), 678-692.
6. Stern, J.M., Caporro, M., Haneef, Z., Hsiang, J. Y., Buttinelli, C., **Lenartowicz, A.**, Mumford, J.A., Parvizi, J., Poldrack, R.A., (2011). Functional Imaging of Sleep Vertex Sharp Transients, *Clinical Neurophysiology*. 122(7), 1282-6. PMID: 21310653. **Served as analysis consultant on this project, with active role in methods and analysis portions of manuscript.**
7. Aronson, A., Bramen, J., Douglas, P. **Lenartowicz, A.**, Cho, A., Culbertson, C., Brody, A.,Yuille, A., Cohen, M.S., (2011), Large sample group-ICA of fMRI using anatomical-atlas based reduction, bagging and clustering. *International Journal of Imaging Systems and Technology*. 21(2), 223-231. PMCID: 3204794. **Contributed to analysis design, and results interpretation on this project.**
8. **Lenartowicz, A.**, Verbruggen, F., Gordon, L.D., Poldrack, R.A., (2011). Inhibition-related activation in the right inferior frontal gyrus in the absence of inhibitory cues. *Journal of Cognitive Neuroscience*. 23(11). 3388-3399. PMID: 21452946
9. Capporo, M., Haneef, Z., Yeh, H.J., **Lenartowicz, A.**, Buttinelli, C., Parvizi, J., Stern, J.M. (2012) Functional MRI of sleep spindles and K-complexes. *Clin Neurophysiol*. 123(2), 303-309. PMID: 21775199. **Served as analysis consultant on this project, with active role in methods and analysis portions of manuscript.**
10. Haneef, Z., **Lenartowicz, A.**, Yeh, H.J., Engel, J., Stern, J.M. (2012) Effect of lateralized temporal lobe epilepsy on the default mode network. *Epilepsy & Behavior*. 25(3), 350-357.

PMID: 23103309. **Served as analysis consultant on this project, with active role in methods and analysis portions of manuscript.**

11. D'Ardenne, K., Eshel, N., Luka, J., **Lenartowicz, A.**, Nystrom, L., Cohen, J.D. (2012). The role of prefrontal cortex and the midbrain dopamine system in working memory updating. *PNAS*, 109(49), 19900-9. PMID: 23086162. **This project is a collaborative effort that stemmed from my earlier work (c.f., item 3).**
12. Reid, R.C., Davtian, M., **Lenartowicz, A.**, Torrevillas, R.M., Fong, T.W., (2013). Perspectives on the assessment and treatment of adult ADHD in hypersexual men. *Neuropsychiatry* 3(3), 1-14. PMID: N/A. **My contribution was a neuroimaging portion of this perspective on the state of the arts.**
13. **Lenartowicz, A.**, Simpson, G.V., Cohen, M.S., (2013). Perspective: Causes and functional significance of temporal variations in attention control. *Front. Hum. Neurosci.* 7:381. PMID: 23888135
14. Haneef, Z., **Lenartowicz, A.**, Yeh, H.J., Levin, H.S., Engel, J. Jr., Stern, J.M., (2014), Functional connectivity of hippocampal networks in temporal lobe epilepsy. *Epilepsia*, Jan; 55(1): 137-45. PMID: 24313597. **Served as analysis consultant on this project, with active role in methods and analysis portions of manuscript.**
15. **Lenartowicz, A.**, Walshaw, P., McCracken, J.T., McGough, J., Delorme, A., Makeig, S., Loo, S.K., (2014), EEG Correlates of spatial working memory in ADHD. *J Neurosci.* 34(4). 1171-1182. PMID: 23888135
16. **Lenartowicz, A.**, Simpson, G.V., Cohen, M.S., (2014), Neurophysiological signals of ignoring and attending are separable, and related to performance during sustained inter-sensory attention. *J Cog Neuro. Sep; 26(9):* 2055-69. PMID: 24666167.
17. **Lenartowicz, A.**, Loo, S.K., (in press), Use of EEG to Diagnose ADHD. *Curr Psy Reports.*
18. Haneef, Z., **Lenartowicz, A.**, Yeh, H.J., Engel, J., Jr., Stern, J.M. (2014), Network analysis of the default mode network using functional connectivity MRI in temporal lobe epilepsy. *J Vis Exp. Aug 5; (90).* PMID: 25146174. **Served as analysis consultant on this project.**

## **SUBMITTED MANUSCRIPTS**

### **CHAPTERS**

1. **Lenartowicz, A.**, & Poldrack, R. A., (2010), Brain Imaging, In: Koob, G., Thompson, R. F., & Le Moal, M. (Eds.), *Encyclopedia of Behavioral Neuroscience*, volume 1, pp. 187-193. Oxford: Academic Press.

### **ABSTRACTS**

1. **Lenartowicz, A.**, Resnick, S.M., & McIntosh, A.R., *Functional connectivity patterns of the anterior cingulate and their relation to performance in verbal and figural memory*. Society for Neuroscience 32<sup>nd</sup> Annual Meeting [Poster presentation]. Orlando, 2002.
2. **Lenartowicz, A.**, & McIntosh, A.R., *Prefrontal and cingulate covariation related to cueing of working memory*. Society for Neuroscience 33<sup>rd</sup> Annual Meeting [Oral Presentation]. New Orleans, 2003.
3. Burianova, H., **Lenartowicz, A.**, & McIntosh, A.R., *Differential contributions of anterior cingulate and dorsolateral prefrontal cortex to response speed and accuracy*. Society for Neuroscience 33<sup>rd</sup> Annual Meeting [Poster presentation]. New Orleans, 2003.
4. **Lenartowicz, A.**, & McIntosh, A.R., *Differential contribution of prefrontal and cingulate activity as a function of attentional demand in a working memory task*. 10<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping [Poster Presentation]. Budapest, Hungary, 2004.
5. Beason-Held, L.L., Kraut, M.A., **Lenartowicz, A.**, McIntosh, A.R., & Resnick, S.M., *The Effects of task and time on brain activation patterns in the elderly*. 10<sup>th</sup> International Conference on Functional Mapping of the Human Brain [Poster Presentation]. Budapest, Hungary, 2004.
6. **Lenartowicz, A.**, Detre, G., Polyn, S., Norman, K. *Characterization of brain states during task-switching using a neural network classifier*. 12<sup>th</sup> Annual Cognitive Neuroscience Society, [Poster Presentation]. New York, 2005.
7. Gray, J.R., Conway, A.R.A., **Lenartowicz, A.**, Braver, T.S., Burgess, G.C., Kolarick, D.L., Shamos, N.A., Schaefer, A., Engle, R.W., *Individual differences in working memory systems: functionality connectivity, fluid intelligence, and personality*. Society for Neuroscience 35<sup>th</sup> Annual Meeting, [Poster Presentation]. Washington, D.C., 2005.
8. Rowe, G., Valderrama, S., Hasher, L., & **Lenartowicz, A.**, *Attention disregulation: A long-term benefit*. 46<sup>th</sup> Annual Meeting of the Psychonomics Society [Poster Presentation]. Toronto, Canada, 2005.
9. **Lenartowicz, A.**, Yeung, N., Cohen, J.D., *Cue-based preparation effects on switch costs and the contents of task-set*. 46<sup>th</sup> Annual Meeting of the Psychonomic Society [Poster Presentation]. Toronto, Canada, 2005.
10. **Lenartowicz, A.**, Cohen, J.D., *ERP components of task-updating in response to a cue*. Society for Neuroscience 36<sup>th</sup> Annual Meeting [Poster Presentation]. Atlanta, 2006.
11. **Lenartowicz, A.**, Cohen, J.D., *Effects of no-go stimuli on preparatory control in a cued go/no-go task-switching paradigm*. 47<sup>th</sup> Annual Meeting of the Psychonomics Society [Poster Presentation]. Houston, 2007.
12. **Lenartowicz, A.**, Eshel, N., Luka, J., & Cohen, J.D., *Disrupting activity in right prefrontal cortex interferes with task updating in cognitive control*. Society for Neuroscience 37<sup>th</sup> Annual Meeting [Poster Presentation]. San Diego, 2007.

13. Eshel, N., Luka, J., **Lenartowicz, A.**, Nystrom, L.E., & Cohen, J.D. *Transiently disrupting right prefrontal cortex interferes with updating of working memory*. 14<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping. [Poster Presentation] Sydney, Australia, 2008.
14. **Lenartowicz, A.**, Nystrom, L.E., & Cohen, J.D., *Representation of situational context during preparation in task switching as mediated by task specific and behaviorally significant functional connectivity*, 14<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping. [Poster Presentaiton], Sydney, Australia, 2008.
15. **Lenartowicz, A.**, Fox, C.R., & Poldrack, R.A., *Rejection of risky gambles is correlated with increases in frontal-striatal functional connectivity, and varies with loss aversion*. 15<sup>th</sup> Annual Meeting of the Organization of Human Brain Mapping, [Poster Presentation], San Francisco, 2009.
16. Kenner, N.M., Mumford, J.A., **Lenartowicz, A.**, Hommer, R.E., Skup, M., Leibenluft, E., & Poldrack, R.A., *Comparing networks involved in stopping and changing motor responses*. 15<sup>th</sup> Annual Meeting of the Organization of Human Brain Mapping, [Poster Presentation], San Francisco, 2009.
17. Anderson, A., Bramen, J., **Lenartowicz, A.**, Douglas, P., Culbertson, C., Brody, A., Cohen, M.S., *Categorization and Generation of group-wide independent components in fMRI using clustering*. 16<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, [Poster Presentation], Barcelona, Spain, 2010.
18. Caporro, M., Haneef, Z., Yeh, H., Buttinelli, C., **Lenartowicz, A.**, Stern, J.M. *Simultaneous EEG and fMRI of Sleep Spindles and K-Complexes*. American Epilepsy Society Annual Meeting, [Poster Presentation]. San Antonio, TX, 2010.
19. **Lenartowicz, A.**, Verbruggen, A., Poldrack, R.A., *Activation in the right inferior frontal gyrus in the absence of inhibitory cues*. 40<sup>th</sup> Meeting of the Society for Neuroscience, [Poster Presentation]. San Diego, 2010.
20. **Lenartowicz, A.**, Walshaw, P.D., Bookheimer, S., McCracken, J., Loo, S.K. *Independent component analysis and fusion of EEG and fMRI functional connectivity of attention control in children with ADHD*. 2<sup>nd</sup> New Horizons in Human Brain Imaging Meeting. (Poster Presentation). Hawaii, 2010.
21. **Lenartowicz, A.**, Berkman, E.T., Poldrack, R.A., Knowlton, B.J. *Exposure to negative emotional stimuli reduces the efficacy of subsequent response inhibition*. 52<sup>nd</sup> Annual Meeting of The Psychonomic Society [Poster Presentation]. Seattle, 2011.
22. **Lenartowicz, A.**, Walshaw, P.D., McCracken, J., Makeig, S., Loo, S.K. *Parsing of attention control in children with ADHD into independent component processes based on unique spatila-temporal-spectral profiles*. 41<sup>st</sup> Meeting of the Society for Neuroscience, [Oral Presentation]. Washington D.C., 2011.

23. Head, A., Li, W., **Lenartowicz, A.**, Simpson, G.V., Cohen, M.S. *Increased intra-individual variability of ultra-slow cortical EEG activity during sustained attention in adults with ADHD*. . 42<sup>nd</sup> Meeting of the Society for Neuroscience, [Poster Presentation]. New Orleans, 2012.
24. Bramen, J., **Lenartowicz, A.**, Simpson, G.V., Cohen, M.S.. *Higher Default Mode Network Activity is Associated with Lower Performance During a Multi-Modal Continuous Attention Task*. 42<sup>nd</sup> Meeting of the Society for Neuroscience. [Poster Presentation]. New Orleans. 2012.
25. **Lenartowicz, A.**, Simpson, G.V., Cohen, M.S. *Control of non-spatial attention involves both enhancement of target and suppression of distractor related cortical EEG activity*. 42<sup>nd</sup> Meeting of the Society for Neuroscience. [Poster Presentation]. New Orleans. 2012.
26. **Lenartowicz, A.**, Walshaw, P., McCracken, J.T., McGough, J., Makeig, S., Loo, S.K. *EEG Correlates of spatial working memory in ADHD*. 59<sup>th</sup> Annual Meeting of the American Academy of Child & Adolescent Psychiatry. [Poster Presentation]. San Francisco, 2012.
27. Patterson, T.K., **Lenartowicz, A.**, Berkman, E.T., Poldrack, R.A., Knowlton, B., *Impact of emotional image viewing on neural mechanisms of response inhibition*. Cognitive Neuroscience Society. [Poster Presentation]. San Francisco, 2013.
28. Loo, S.K., **Lenartowicz, A.**, Galvan, A., Cho, A., Bookheimer, S., McGough, J., Bilder, R., McCracken, J., *Multimodal imaging of neural mechanisms underlying working memory deficits in ADHD*. Society of Biological Psychiatry Annual Meeting, [Poster Presentation]. San Francisco, 2013.
29. Rodriguez, C. **Lenartowicz, A.**, Cohen, M.S., *An EKG-free method for extracting BCG timing from the EEG signal*. Organization for Human Brain Mapping Annual Meeting. [Poster Presentation]. Seattle, 2013
30. Rodriguez, C., **Lenartowicz, A.**, Cohen, M.S., *A novel method for automatic electrode location and identification*. Organization for Human Brain Mapping Annual Meeting. [Poster Presentation]. Seattle, 2013.
31. Patterson, T.K., **Lenartowicz, A.**, Berkman, E.T., Poldrack, R.A., Knowlton, B.J., *Viewing emotional images alters functional connectivity in a subsequent response inhibition task*. International Conference on Basic and Clinical Multimodal Imaging. [Poster Presentation]. Geneva, 2013.
32. Rodriguez, C. **Lenartowicz, A.**, Cohen, M.S., *An EKG-free method for extracting BCG timing from the EEG signal*. . International Conference on Basic and Clinical Multimodal Imaging. [Poster Presentation]. Geneva, 2013.
33. Rodriguez, C., **Lenartowicz, A.**, Cohen, M.S., *A novel method for automatic electrode location and identification*. . International Conference on Basic and Clinical Multimodal Imaging. [Poster Presentation]. Geneva, 2013.

34. **Lenartowicz, A.** Walshaw, P., McCracken, J.T., McGough, J., Delorme, A., Makeig, S., Loo, S.K., *Concurrent EEG-fMRI Study of the Neural Substrates of Spatial Encoding in ADHD*. International Conference on Basic and Clinical Multimodal Imaging. [Oral Presentation]. Geneva, 2013.