

Michael-Paul Schallmo

Curriculum Vitae

Department of Psychology
University of Washington
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Education and Training

- Post-doctoral Research Associate in the Department of Psychology – University of Washington, Seattle, WA – 01/2015 to Present
 - Advisor: Scott O. Murray (Psychology Department)
- Ph.D. in Neuroscience – University of Minnesota, Minneapolis, MN – 08/2009 to 12/2014
 - Advisor: Cheryl A. Olman (Psychology Department)
 - Dissertation: “Neural mechanisms of visual context processing in healthy adults and those with schizophrenia”
- B.S. in Brain, Behavior, and Cognitive Science (with Honors & Distinction) – University of Michigan, Ann Arbor, MI – 09/2005 to 05/2009
 - Advisor: Scott A. Langenecker (Neuropsychology Division), 10/2006 to 07/2009
 - Senior Honors Thesis: “Papez circuit activation observed with functional imaging during semantic list learning in healthy adults”

Teaching and Mentorship Experience

- Supervising Murray Lab Research Assistant (Alex Kale) – Sept. 2015 to present
- Teaching Assistant for the University of Minnesota Medical School Human Neuroanatomy Laboratory Course – Spring Semester 2011 & 2012
- Study Group Leader for the University of Michigan Science Learning Center – Organic Chemistry Courses I & II – Fall 2007 to Spring 2009

Honors, Awards and Funding

- Postdoctoral NRSA (F32 EY025121) – National Institute of Health (2015)
- Graduate Research Fellowship (00006595) – National Science Foundation (2011)
- Vision Training Grant (T32 EY007031) – UW Dept. of Biological Structure (2015)
- Doctoral Dissertation Fellowship – UMN Graduate School (2014)
- Stark Travel Award – UMN Graduate Program in Neuroscience (2014)
- Poppele Prize – UMN Graduate Program in Neuroscience (2011)
- Graduate School Fellowship – University of Minnesota (2009)
- Member of Psi Chi, International Honor Society in Psychology (2008)
- UROP Research Travel Grant – University of Michigan (2008)
- UROP Summer Biomedical Research Fellowship – University of Michigan (2007)

- Regents Scholarship – University of Michigan (2005)
- James V. Ellis Scholarship – Rotary Foundation, Farmington Hills, MI (2005)
- Eagle Scout – Boy Scouts of America (2003)

Professional, Volunteer, and Service Activities

- Ad Hoc Journal Reviewer for: Cerebral Cortex, Psychological Medicine, Frontiers in Human Neuroscience, Frontiers in Perception Science, Frontiers in Psychopathology, PLOS ONE.
- Representative on the UMN Graduate Program in Neuroscience Student Board (2013 to 2014), and member of the UMN Neuroscience Community Outreach and Mentorship Committees (2011 to 2013).
- Volunteer presenter during Brain Awareness Week (MN & WA), the Minnesota Brain Bee, Neuroscience booth at the Minnesota State Fair, and guest lecturer at elementary, middle & high schools (2010 to present).

Additional Training

- MR Scanner Operator – UW Diagnostic Imaging Science Center – Jan. 11, 2016
- CPR Certification – American Heart Association – Jul. 22, 2015
- ERP Mini Bootcamp Course – Instructor: Dr. Steve Luck – Jan. 30 to Feb. 1, 2013
- Eye Tracker Training – SR Research Eyelink 1000 – Jun. 3 to 5, 2013

Publications

Schallmo, M-P., Grant, A.N., Burton, P.C., Olman, C.A. (2016). *The effects of orientation and attention during surround suppression of small image features: A 7 Tesla fMRI study.* Journal of Vision. 16(10), 19, p. 1-21. [PMID: 27565016](#)

Schallmo, M-P., Murray, S.O. (2016). *Identifying separate components of surround suppression.* Journal of Vision. 16(1), 2, p. 1-12. [PMC4743711](#)

Schallmo, M-P., Sponheim, S.R., Olman, C.A. (2015). *Reduced contextual effects on visual contrast perception in schizophrenia and bipolar affective disorder.* Psychological Medicine. 45(16), p. 3527-3537. [PMC4624017](#)

Schallmo, M-P., Kassel, M.T., Weisenbach, S.L., Walker, S.J., Guidotti-Breting, L.M., Rao, J.A., Hazlett, K.E., Considine, C.M., Sethi, G., Vats, N., Pecina, M., Welsh, R.C., Starkman, M.N., Giordani, B., Langenecker, S.A. (2015). *A new semantic list learning task to probe functioning of the Papez circuit.* Journal of Clinical and Experimental Neuropsychology. 37(8), p. 816-833. [PMID: 26313512](#)

Schallmo, M-P., Sponheim, S.R., Olman, C.A. (2013). *Abnormal contextual modulation of visual contour detection in patients with schizophrenia.* PLOS ONE. 8(6), p. e68090. [PMC3688981](#)

Vederman, A.C., Weisenbach, S.L., Rapport, L.J., Leon, H.M., Haase, B.D., Franti, L.M., **Schallmo, M-P.**, Saunders, E.F., Kamali, M.M., Zubieta, J-K., Langenecker, S.A., McInnis, M.G. (2012). *Modality-specific alterations in the perception of emotional stimuli in bipolar disorder compared to healthy controls and major depressive disorder*. *Cortex*. 48(8), p. 1027-1034. [PMC3660134](#)

Olman, C.A., Pickett, K.A., **Schallmo, M-P.**, Kimberley, T.J. (2012). *Selective BOLD responses to individual finger movement measured with fMRI at 3T*. *Human Brain Mapping*. 33, p. 1594 -1606. [PMC3713710](#)

Langenecker, S.A., Weisenbach, S.L., Giordani, B., Briceno, E.M., Guidotti, L.M., **Schallmo, M-P.**, Leon, H.M., Noll, D.C., Zubieta, J-K, Schteingart, D.E., Starkman, M.N. (2012). *Impact of chronic hypercortisolism on affective processing*. *Neuropharmacology*. 62, p. 217-225. [PMC3196277](#)

Submitted Manuscripts and those in Preparation

Dawson, E. L., Caveney, A. F., Weisenbach, S. L., Giordani, B., Avery, E., **Schallmo, M-P.**, Bahadori, A., Bieliauskas, L. A., Mordhorst, M., Marcus, S., Kerber, K., Zubieta, J-K., Langenecker, S. A. (submitted). *Executive functioning at baseline prospectively predicts depression treatment response*.

Abstracts and Presentations

Schallmo, M-P., Flevaris, A.V., Kale, A.M., Bernier, R.A., Murray, S.O. (2016, November). *GABA and visual context processing in autism spectrum disorders*. Poster to be presented at the Society for Neuroscience Meeting, San Diego, CA.

Flevaris, A.V., **Schallmo, M-P.**, Kale, A.M., Murray, S.O. (2016, November). *Effects of stimulus size and contrast on motion perception: Comparing psychophysics and fMRI*. Poster to be presented at the Society for Neuroscience Meeting, San Diego, CA.

Millin, R., **Schallmo, M-P.**, Flevaris, A.V., Boynton, G.M., Murray, S.O. (2016, November). *Effects of attention on contrast response in foveal visual cortex*. Poster to be presented at the Society for Neuroscience Meeting, San Diego, CA.

Schallmo, M-P., Murray, S. O. (2016, May). *Identifying separate components of surround suppression during contrast perception in human subjects*. Poster presented at the Vision Sciences Society Meeting, St. Pete Beach, FL.

Schallmo, M-P., Olman, C.A., Sponheim, S.R. (2015, May). *Reduced contextual effects on contrast perception in schizophrenia and bipolar affective disorder*. *Journal of Vision*, 15(12), p. 553. Talk presented at the Vision Sciences Society Meeting, St. Pete Beach, FL.

Kang, S.S., **Schallmo, M-P.**, VanMeerten, N.J., Qiu, C., Olman, C.A., Sponheim, S.R. (2015, March). *Interregional gamma phase synchrony deficits in ventral visual pathways for contour detection in schizophrenia*. *Schizophrenia Bulletin*, 41, p.

S227. Poster presented at the International Congress on Schizophrenia Research, Colorado Springs, CO.

Qiu, C., Espensen-Sturges, T., **Schallmo, M-P.**, Olman, C.A., Sponheim, S.R. (2015, March). *A computational model of contextual influences in visual perceptual abnormalities in schizophrenia*. Schizophrenia Bulletin, 41, p. S97. Poster presented at the International Congress on Schizophrenia Research, Colorado Springs, CO.

Lano, T.J., Kang, S.S., VanMeerten, N.J., **Schallmo, M-P.**, Olman, C.A., Sponheim, S.R. (2014, September). *Similar yet different: An event-related potential examination of contour detection in schizophrenia and bipolar disorder*. Poster presented at the Society for Research in Psychopathology Meeting, Evanston, IL.

Schallmo, M-P., Brancel, S.R., Grant, A.N., Olman, C.A. (2014, May). *Localized BOLD fMRI responses in V1 reflect a task-dependent mixture of luminance contrast and pattern context during iso-orientation surround suppression*. Journal of Vision, 14(10), p. 216. Talk presented at the Vision Sciences Society Meeting, St. Pete Beach, FL.

Olman, C.A., Bao, P., Engel, S.A., Grant, A.N., Purington, C., Qiu, C., **Schallmo, M-P.**, Tjan, B.S. (2014, May). Do hemifield representations co-opt ocular dominance column structure in achiasma? Journal of Vision, 14(10), p. 377. Talk selected for presentation at the Vision Sciences Society Meeting, St. Pete Beach, FL.

Lano, T.J., Kang, S.S., VanMeerten, N.J., **Schallmo, M-P.**, Olman, C.A., Sponheim, S.R. (2014, May). *Early visual neural abnormalities in schizophrenia patients during contour detection*. Poster presented at the Society of Biological Psychiatry Annual Meeting, New York, NY.

Schallmo, M-P., Qiu, C., Yacoub, E., Olman, C.A. (2013, May). *Examining the laminar profile of surround suppression in V1 using high resolution fMRI at 7 Tesla*. Journal of Vision, 13(9), p. 34. Poster presented at the Vision Sciences Society Meeting, Naples, FL.

Sponheim, S.R., Kang, S.S., **Schallmo, M-P.**, VanMeerten, N.J. Olman, C.A. (2013, April). *Seeing lines: Context influences visual contour detection in schizophrenia*. Poster presented at the International Congress on Schizophrenia Research, Orlando, FL.

Schallmo, M-P. (2013, March). *How the brain processes visual information: Neural mechanisms and the effect of schizophrenia*. Invited talk presented at Augsburg College, Minneapolis, MN.

Schallmo, M-P. (2013, February). *Cortical depth-dependent fMRI: A new dimension in imaging*. Invited talk presented at the UMN Graduate Program in Neuroscience Retreat, Minneapolis, MN.

Schallmo, M-P., Sponheim, S.R., Olman, C.A. (2012, May). *Orientation tuning in schizophrenia measured using reverse correlation psychophysics*. Journal of Vision, 12(9), p. 88. Poster presented at the Vision Sciences Society Meeting, Naples, FL.

Schallmo, M-P. (2012, March). *Vision and schizophrenia: Insights into psychosis*. Invited talk presented at the Carleton College Neuroscience Capstone Seminar, Northfield, MN.

Schallmo, M-P., Sponheim, S.R., Marjanska, M., Olman, C.A. (2011, November). *Schizophrenia affects contextual modulation during contour detection*. Poster presented at the Society for Neuroscience Meeting, Washington, DC.

Schallmo, M-P., Sponheim, S.R., Olman, C.A. (2011, May). *Contextual modulation of contour detection is altered in schizophrenia*. Journal of Vision, 11(11), p. 1050. Poster presented at the Vision Sciences Society Meeting, Naples, FL.

Walker, S.J., Wright, S.L., **Schallmo, M-P.**, Hazlett, K.E., Giordani, B., Scheingart, D.E., Starkman, M.N., Zubieta, J-K., Langenecker, S.A. (2010, May). *Learning and memory among individuals with major depressive disorder as measured by CVLT-II and an fMRI paradigm*. Biological Psychiatry, 67(9), p. 224S. Poster presented at the Biological Psychiatry Meeting, New Orleans, LA.

Avery, E.T., Hazlett, K., **Schallmo, M-P.**, Huq, N., Bahadori, A., Own, L.S., Wright, S.L., Caveney, A.F., Young, E.A., Rapport, L.J., Bieliauskas, L.A., Giordani, B., Zubieta, J-K., Langenecker, S.A. (2010, February). *Executive functioning and emotion processing predictors of treatment response in major depressive disorder*. Poster session presented at the International Neuropsychological Society Meeting, Acapulco, Mexico.

Pickett, K.A., Olman, C.A., **Schallmo, M-P.**, Kimberley, T.J. (2009, October). *Cortical mapping during individuated finger movements*. Poster session presented at the Society for Neuroscience Meeting, Chicago, IL.

Schallmo, M-P., Wright, S.L., Leon, H.M., Kade, A.M., Guidotti, L.M., Briceno, E.M., Starkman, M.N., Scheingart, D.E., Giordani, B., Langenecker, S.A. (2009, February). *Papez circuit activation observed with functional imaging during semantic list learning in controls*. Poster session presented at the International Neuropsychological Society Meeting, Atlanta, GA.

Leon, H.M., Langenecker, S.A., Kade, A.M., Franti, L.M., **Schallmo, M-P.**, Vederman, A., Saunders, E.F.H., McInnis, M.G. (2009, February). *Emotion processing decrements are related to symptoms of depression, age, and gender, but not major depressive disorder or bipolar disorder*. Poster session presented at the International Neuropsychological Society Meeting, Atlanta, GA.

Briceno, E.M., Wright, S.L., Moffat, S.D., Muczynski, D., **Schallmo, M-P.**, Langenecker, S.A. (2009, February). *The relationship of depression symptoms to spatial navigation performance across the lifespan*. Poster session presented at the International Neuropsychological Society Meeting, Atlanta, GA.

- Ransom, M. T., Wright, S. L., Avery, E., **Schallmo, M-P.**, Wettersten, K. B., & Langenecker, S. A. (2008, June). *Younger adults with major depressive disorder show select executive functioning challenges*. *Clinical Neuropsychologist*, 22(3), p. 424-425. Poster session presented at the American Academy of Clinical Neuropsychology, Boston, MA.
- Ransom, M.T., Langenecker, S.A., Wright, S.L., Brinkman, M.L., **Schallmo, M-P.**, Bieliauskas, L.A., Rapport, L.J., Welsh, R.C., Zubieta, J-K. (2008, May). *Bilateral medial temporal and right insular hyper activation in females with MDD completing ratings of emotional expressions in faces*. *Biological Psychiatry*, 63(7), p. 212S. Poster session presented at the Biological Psychiatry Meeting, Washington, DC.
- Langenecker, S.A., **Schallmo, M-P.**, Brinkman, M.L., Young, E.A., Zubieta, J-K., Giordani, B. (2008, February). *Predicting treatment response in major depressive disorder (MDD) using computer-based neuropsychological instruments in a clinical setting*. Paper presented at the International Neuropsychological Society Meeting, Waikoloa, HI.
- Schallmo, M-P.**, Hsu, D.T., Wright, S.L., Brinkman, M.L., Mickey, B.J., Young, E.A., Akil, H., Noll, D.C., Zubieta, J.-K., Langenecker, S.A. (2008, February). *Depression, cortisol, and age but not stressful events predict fMRI activation responses to words with negative valence*. Poster session presented at the International Neuropsychological Society Meeting, Waikoloa, HI.

Academic References

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