

REBECCA A. LUNDWALL

DEPARTMENT OF PSYCHOLOGY • 1064 SWKT • PROVO, UTAH 84602

Phone 801-422-5977 • Rebecca_Lundwall@byu.edu

EDUCATION

Ph.D.	Cognitive Neuroscience	2013	Rice University	Houston, TX
	Thesis: <i>Molecular Genetics and Reflexive Visual Attention in Children</i>			
M. A.	Cognitive Neuroscience	2011	Rice University	Houston, TX
	Thesis: <i>Is response time variability on an exogenous visual orienting task associated with specific genetic markers?</i>			
M.Ed.	Counseling and Guidance	1990	Brigham Young University	Provo, UT
B.S.	Pre-Physical Therapy	1987	Brigham Young University	Provo, UT

POSITIONS HELD

Since 2013	Neuroscience Faculty	Brigham Young University	Provo, UT
Since 2013	Assistant Professor, Psychology	Brigham Young University	Provo, UT

PEER REVIEWED JOURNAL ARTICLES

Lundwall, R. A., *Stephenson, K. G., Neely-Tass, E. S., Cox, J. C., South, M., Bigler, E. D., *Anderberg, E., Prigge, M. D., Hansen, B. D., Lainhart, J. E., Kellems, R. O., Petrie, J., & Gabrielsen, T. P. (2016). Brain volumes associated with high levels of aggression in male children diagnosed with autism spectrum disorder. *Research in Autism Spectrum Disorders*. doi:10.1016/j.rasd.2016.12.001.

Lundwall, R. A., & *Rasmussen, C. B. G. (2016). Developmental trajectory of reflexive attention from infancy to childhood. *Frontiers in Human Neuroscience*, 10, 424. doi: 10.3389/fnhum.2016.00424

Lundwall, R. A., Goldsmith, H. H. & Dannemiller, J. L. (2015). Genetic associations with reflexive visual attention in infancy and childhood. *Developmental Science*. doi: 10.1111/desc.12371

Lundwall, R. A., & Dannemiller, J. L. (2015). Genetic contributions to attentional response time slopes across repeated trials. *BMC Neuroscience*, 16, 66.

Lundwall, R. A., & *Watkins, J. K. (2015). Genetic influence on slope variability in a childhood reflexive attention task. *PLoS ONE*, 10(6), e0130668.

Lundwall, R. A., Guo, D. C., & Dannemiller, J. L. (2012). Exogenous visual orienting is associated with specific neurotransmitter genetic markers: A population based genetic association study. *PLoS ONE*, 7:e30731.

Lundwall, R. A. (2002). Parents' perceptions of the impact of their chronic illness or disability on their functioning as parents and on their relationships with their children. *The Family Journal: Counseling and Therapy for Couples and Families*, 10, 300-307.

Lundwall, R. A. (1996). How psychoeducational support groups can provide multidiscipline services to families of people with mental illness. *Psychiatric Rehabilitation Journal*, 20, 64-71.

ABSTRACT

Lundwall, R. A., & Dannemiller, J. L. (2010). Bilateral visual orienting with adults using a modified Posner paradigm and a candidate gene study. *Journal of Vision*, 10(7):88-88. DOI:10.1167/10.7.88 (abstract)

PUBLICATIONS UNDER REVIEW

Lundwall, R. A., *Sgro, J., & *Wade, T. (revisions requested). *SLC6A3* Predicts relational aggression in children.

Lundwall, R. A., *Woodruff, J., & *Tolboe, S. (under review). Characteristics of a child task to measure reflexive attention.

Lundwall, R. A., *White, T., *Rhodes, J., & Lundwall, R. (under review). Basic errors on a computer task predict academic scores.

*Sgro, J., *Fanger, J., & **Lundwall, R. A.** (under review). Parent ratings of inattention linked to the RT cost following an invalid cue on a reflexive attention task.

PUBLICATIONS IN PREPARATION

Lundwall, R. A. (in preparation). Impaired error monitoring helps explain error rates on a reflexive attention task in children.

Lundwall, R. A. & Gabrielsen, T. (in preparation). A meta-analysis of treatments for aggression.

PRESENTATIONS

Lundwall, R., *Nuttall, R., *Kotter, A., *Bayles, T., *Christensen, K., & *Iverson, J. (2017, April). *Infant Siblings of Children Diagnosed with Autism Spectrum Disorder Have Higher Perseveration*. Poster presentation at the Biennial Meeting of the Society for Research in Child Development, Austin, TX.

*Christensen, K., *Nuttall, R., *Koci, M., *Wade, T., *Kotter, A. G., & **Lundwall, R. A.** (2016, November). *The influence of MAOA across the trajectory development of reflexive attention*. Poster presentation at the Annual Psychonomic Society Meeting, Boston, MA.

*Kamhout, S., Clason, S., Bayles, T. & **Lundwall, R. A.** (2016, October). *Genetic associations with infant attention*. Poster presentation at the Intermountain Society for Neuroscience competition at the Neuroscience Program Snowbird Symposium, Snowbird, UT

*Kaseda, E., *White, T., *Sgro, J., *Mitchell, M., *Wade, T. & **Lundwall, R. A.** (2015, October). *Reduced Acetylcholine Availability via SLC5A7 is associated with increased Relational Aggression in Children*. Poster presentation at the Intermountain Society for Neuroscience competition at the Neuroscience Program Snowbird Symposium, Snowbird, UT.

Lundwall, R. A. (2015, September). *Foundations of Genetic Research: A Primer. Methods Workshops*. Oral presentation at the Methods Workshop, School of Family Life, Provo, UT.

Tass, S. N., **Stephenson, K., Prigge, M. D., South, M., **Maisel, M. E., Kellems, R., Hansen, B. D., **Lundwall, R. A.**, Bigler E., and Gabrielsen, T. P. (2015, May). *Brain Volumes Associated with High Levels of Aggression in ASD*. Poster presentation at the International Meeting for Autism Research, Salt Lake City, UT.

Lundwall, R. A., van Hulle, C., Schmidt, N., Dannemiller, J., & Goldsmith, H. H. (2015, March). *MAOA, HTR4, SLC5A7 and Aggression*. Poster presentation at the Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.

Lundwall, R. A. (2013, December). *The MAOA Gene Influences the Development of Reflexive Attention*. Oral presentation for the Speed Networking Event at Brigham Young University.

Lundwall, R. A. (2013, November). *Genetic Influences on the Development of Reflexive Attention*. Oral presentation for Non-Ivory Tower seminar at Brigham Young University.

Lundwall, R. A., & Dannemiller, J. L. (2013, June). *Visual Attention: Longitudinal Associations in Infancy and Childhood*. Oral presentation at the annual meeting of the Child Vision Research Society, Waterloo, Ontario, Canada.

Lundwall, R. A., & Dannemiller, J. L. (2010, May). *Bilateral Visual Orienting with Adults Using a Modified Posner Paradigm and a Candidate Gene Study*. Poster presentation at the annual meeting of the Vision Sciences Society, St. Petersburg, Florida.

SUPERVISED STUDENT POSTERS AND PUBLICATIONS

*Garner, A., *Christensen, K., *Chatterley, G., & *Nuttall, R. (2016, April). *MAOA Influences the Trajectory of Attentional Development*. Poster presented at the Mary Lou Fulton Conference, Provo, UT.

*Mitchell, M., *Wade, T., & *Shawkey, E. (2016, April) *Reduced Acetylcholine Availability via SLC5A7 is Associated with Increased Relational Aggression in Children*. Poster presented at the Mary Lou Fulton Conference, Provo, UT.

*Wade, T., *Mitchell, M., & *Sgro, J. (2016). *SLC5A7 as a predictor of relational aggression in children*. *Chiasm*, 8, 4-10.

*Shepherd, E. (under review). *Daytime sleepiness is associated with depression but not anxiety in children*. *Intuition*.

*Brown, G. R. (2014, April). *Narrowing the StepGap: Correlating stepparent behaviors to positive outcomes*. Poster presented at the Mary Lou Fulton Conference, Provo, UT.

*Sessions, K. (2014, April). *Exercise and depression in a religious population*. Paper presented at the Mary Lou Fulton Conference, Provo, UT.

*Woodruff, J., & *White, T. (2015). *Self-reported reasons for motivation to exercise and association with mental health*. Planned submission to the Utah Conference for Undergraduate Research (UCUR) 2015, St. George, UT.

* = undergraduate student ** = graduate student

FUNDING

National Institute of Child Health and Human Development (R15) (in progress) *An Innovative Screening Method for Autism in Infants to Facilitate Earlier Intervention*

Research Initiation Grant Application – BYU MRI Facility (applied 2016) *Children with and Without Mild Traumatic Brain Injury: Child Cognition Task Performance and Family Support*

Mentoring Environment Grant (2016) *Unseen, But in Plain Sight: Identifying Developmental Patterns of Females with Symptoms of Autism Spectrum Disorder*

Burnham Endowment (2016) *Funding to mentor two students for involvement in autism-related research*.

Simons Foundation Autism Research Initiative (applied 2016) *Functional Connectivity in Awake Children with ASD and Low Verbal Skills (role: consultant)*

Marjorie Pay Hinckley Research Award	(2016) Children with and without mild traumatic brain injury: Child cognition task performance and family support
Mentoring Environment Grant	(2015) Funding to mentor three students for involvement in research leading to conference presentation.
Research Initiation Grant Application – BYU MRI Facility	(2015) <i>Functional Connectivity in Low Functioning Individuals Diagnosed with Autism Spectrum Disorder</i>
McCartney Award	(2014) Funding for student involvement in research and publications.
FHSS Capital Equipment Fund	(2014) Funding for additional lab equipment
Faculty Center Grant	(2014) Designated funding for teaching materials

TEACHING EXPERIENCE

Life Span Development (PSYCH 220) (Fall 2016)

Cognitive Processes (PSYCH 575) (Fall 2015)

Writing Within Psychology (PSYCH 307) (Fall 2014, Winter 2015)

Research Design and Analysis (PSYCH 310) (Winter 2014, Winter 2015, Fall 2015, Winter 2016)

Cognition (PSYCH 375) (Fall 2013, Winter 2014, Fall 2014, Winter 2016)

Graduate Neuroscience Seminar (NEURO 601) (Winter 2014, Winter 2016, Winter 2017 *one of several presenters*)

MENTORING

- 2016 Trained 21 new research assistants. All training involves mentoring students in reading and understanding literature, developing a research design and protocol, ethics, and the use of statistical software (SPSS). Eight students attended local and national conferences with me to present research findings. Began mentoring a graduate student.
- 2015 Trained 25 new research assistants. Wrote papers with four research assistants. Helped students prepare for two undergraduate conferences (the Utah Conference for Undergraduate Research and the Mary Lou Fulton Conference). Helped a student submit an article to *Intuition*. Mentored a student on her Honor's Thesis (in progress). Wrote letters of recommendation for nine students applying for graduate school.
- 2014 Trained 25 new research assistants including seven students who wrote papers with me. Helped one student apply for APA undergraduate funding. Helped two students prepare for the Mary Lou Fulton Conference. Took two additional students to the Rocky Mountain Psychological Association Meeting in Salt Lake City. Wrote letters of recommendations for four students.
- 2013 Trained two new research assistants. This included providing training on the use of EPrime stimulus presentation software.

CITIZENSHIP

- 2016 Accepted position to an ad hoc committee for hiring for Neuroscience Center Professional Track Position
- 2016 Arranged for a Neuroscience Center Speaker (Dr. Stephen Glatt, State University)
- 2016- Diversity Committee Chair
- 2016- Serve on the Marjorie Pay Hinckley Committee to help making budget decisions, review grant applications, and invite speakers who support research on the children, women, and families
- 2013- Serve on the Graduate Student Admissions committee: Attend all meetings, assist in the creation of recruitment materials, contact colleagues at other universities to encourage their students to apply, review graduate student applications, interview students who apply, and update the graduate student website
- 2014- Serve on the Doctoral Dissertation Research Committees of five graduate students
- 2015 Hosted Neuroscience Center Speaker (Dr. Anthony LaMantia, George Washington University)
- 2015 Helped prepare the self-assessment for Unit Review for the Psychology Department
- 2014 Hosted Neuroscience Center Speaker (Dr. Tatiana Schnur, Rice University)
- 2013 Hosted undergraduate students at a Faculty Mentoring Lunch

REVIEW EXPERIENCE

- 2016 Reviewed a paper for *Autism: International Journal of Research and Practice* entitled "Hooked on a Feeling: Repetitive Cognition and Internalizing Symptomatology in Relation to Autism Spectrum Symptomatology"
- 2016 Reviewed a paper for *Infancy* entitled "Regulation of attention in infancy: temperament and home environment factors"
- 2016 Reviewed a paper for *Child Development Perspectives* entitled "Detailed development" on attention to local versus global aspects of stimuli in children with autism.
- 2016 Reviewed a paper for *The Journal of Experimental Child Psychology* entitled "Equivalent auditory distraction for children, young adults, and old adults"
- 2015 Reviewed a paper for *Social Psychiatry and Psychiatric Epidemiology* entitled "Met72 allele of preproghrelin Leu72Met polymorphism was associated with rehabilitation of depression in male Chinese Han adolescents after Wenchuan earthquake"
- 2015 Reviewed graduate student posters for the *Mary Lou Fulton Conference*.
- 2013 Reviewed student submissions for BYU's Office of Research and Creative Activities (ORCA) grants.

Ad hoc reviewer for:

Attention, Perception, & Psychophysics

Brain and Cognition

British Journal of Developmental Psychology

Child Development

Child Psychiatry & Human Development
Developmental Psychology
Developmental Science
British Journal of Developmental Psychology
Infancy
Journal of Applied Developmental Psychology
Journal of Early Adolescence
Visual Cognition

NATIONAL PROFESSIONAL MEMBERSHIPS

Since 2016	Psychonomic Society
Since 2008	Society for Research in Child Development
Since 2013	Society for the Teaching of Psychology
2010-2013	Cognitive Neuroscience Society
2009-2013	Association for Psychological Science
2001-2013	American Psychological Association
2009-2011	Vision Sciences Society

LOCAL GROUP MEMBERSHIPS

Since 2014	Level Two Training at the Magnetic Resonance Imaging Research Facility
2014	Writing within Psychology Instructors Group at BYU
Since 2013	Autism Connect (A Multidisciplinary Research Group at BYU)
Since 2013	Scholarship Writing Group at BYU