

## REBECCA A. LUNDWALL

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### EDUCATION

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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

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

### PEER REVIEWED JOURNAL ARTICLES

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**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.

## ABSTRACTS

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**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

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

**Lundwall, R. A.**, \*White, T., \*Rhodes, J., & Lundwall, R. (preparing revision). Basic errors on a computer task predict academic scores. *Journal of Educational Psychology*.

\*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. *Merrill Palmer Quarterly: Journal of Developmental Psychology*.

**Lundwall, R. A.**, & \*Rasmussen, C. B. G. (under review). Developmental trajectory of reflexive attention from infancy to childhood. *Merrill Palmer Quarterly: Journal of Developmental Psychology*.

**Lundwall, R. A.**, \*\*Stephenson, K. G., Neeley-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. A., & Gabrielsen, T. (under review). Brain volumes associated with high levels of aggression in children with autism spectrum disorders. *Autism*.

## PUBLICATIONS IN PREPARATION

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**Lundwall, R. A.**, \*Sgro, J., \*Wade, T., \*Kaseda, E., \*Mitchell, M., van Hulle, C., Schmidt, N., Dannemiller, J., & Goldsmith, H. H., (in preparation). *BDNF*, *MAOA*, *SLC5A7* and aggression. Planned submission January 2016.

**Lundwall, R. A.** (in preparation). Replication of two papers on error monitoring which help explain error rates associated with attention deficits. Planned submission March 2016.

**Lundwall, R. A.** & Gabrielsen, T. (in preparation). A meta-analysis of treatments for aggression. Planned submission April 2016.

## PRESENTATIONS

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\*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, Utah.

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

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.

\* = undergraduate student \*\* = graduate student

## FUNDING

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National Institute of Child Health and Human Development (R15)	(in progress) <i>An Innovative Screening Method for Autism in Infants to Facilitate Earlier Intervention</i>
FHSS Capital Equipment Fund	(applied)
Mentoring Environment Grant	(2015) Funding to mentor three students for involvement in research leading to conference presentation.
McCartney Award	(2014) Funding for student involvement in research and publications.
Faculty Center Grant	(2014) Designated funding for teaching materials

## TEACHING EXPERIENCE

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**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)

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

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

## MENTORING

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- 2015      Trained 23 new research assistants. Discussed background readings, trained students on statistical software (SPSS), and discussed statistical results. 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. Other activities included providing and discussing background readings, training students on statistical software (SPSS), and discussing statistical results. 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 and discussing background readings, providing training on the use of EPrime stimulus presentation software, training on study protocol, training on statistical software (SPSS), and discussing statistical results with students.

## CITIZENSHIP

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- 2015 Attended Graduate Student Second Year Poster Presentations
- 2015 Hosted Neuroscience Center Speaker (Professor Anthony LaMantia, George Washington University)
- 2015 Served on the Unit Review Committee: Attended all meetings, reviewed, edited and approved all documents
- 2014-2015 Serve on the Doctoral Dissertation Research Committees of four graduate students
- 2014 Hosted Neuroscience Center Speaker (Professor Tatiana Schnur, Rice University)
- 2013-2015 Serve on the Graduate Student Admissions committee: Attended all meetings, assisted in the creation of the brochure, contacted colleagues at other universities, reviewed applications, created the FAQ page on the graduate student website
- 2013 Hosted students at a Faculty Mentoring Lunch
- 2013 Organized an intra-department writing group for junior faculty
- 2013 Hosted Developmental Research Core Social

## REVIEW EXPERIENCE

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- 2015 Reviewed a paper for *Social Psychiatry and Psychiatric Epidemiology*: 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.
- 2015 Accepted as ad hoc reviewer for *Visual Cognition*
- 2014 Accepted as ad hoc reviewer for *Brain and Cognition*
- 2014 Accepted as ad hoc reviewer for *Developmental Psychology*
- 2014 Accepted as ad hoc reviewer for *Developmental Science*
- 2013 Reviewed student submissions for BYU's Office of Research and Creative Activities (ORCA) grants.
- 2011 Reviewed submissions to the *Association for Psychological Science Student Caucus* grant competition.
- 2008 Assisted in the review of an article being considered for publication in *Developmental Psychology*.

## NATIONAL PROFESSIONAL MEMBERSHIPS

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

## LOCAL GROUP MEMBERSHIPS

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Since 2014	Level One 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