

# JAMES L. DANNEMILLER

SEWALL HALL 470A DEPARTMENT OF PSYCHOLOGY MS-25  
RICE UNIVERSITY 6100 MAIN ST. HOUSTON, TX 77005  
PHONE 713-348-5831 DANNEMIL@RICE.EDU

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## EDUCATION

- Ph.D. in Developmental Psychology 1983  
Dissertation: "The Development of Light Adaptation in Human Infants"  
Ph.D. Advisor: Martin S. Banks, Ph.D.  
The University of Texas at Austin, Austin, TX
- Bachelor of Arts in Psychology 1974  
Northwestern University

## PROFESSIONAL EXPERIENCE

- |              |                                  |  |
|--------------|----------------------------------|--|
| 2009–2013    | Rice University                  | <i>Chair, Department of Psychology</i>           |
| 2004–Present | Rice University                  | <i>Lynette S. Autrey Chair in Social Science</i> |
| 1994–2003    | University of Wisconsin, Madison | <i>Professor</i>                                 |
| 1989–1994    | University of Wisconsin, Madison | <i>Associate Professor</i>                       |
| 1983–1989    | University of Wisconsin, Madison | <i>Assistant Professor</i>                       |

## RECENT HONORS

- |   |              |
|---|--------------|
| Fellow of the American Psychological Society                          | Elected 2010 |
| Distinguished Visitor, Ben Gurion University, Be'er Sheva, Israel     | Fall, 2006   |
| Chair, APA Council of Editors   | 2002–2003    |
| Fellow of Divisions 3 & 7, American Psychological Association         |              |
| University of Wisconsin Chancellor's Award for Distinguished Teaching | 1999         |
| Vilas Associate—University of Wisconsin                               | 1997 & 1998  |
| University of Wisconsin, Psychology Department Teaching Award         | 1995         |

## PROFESSIONAL SERVICE

### Editorial Service

- |                  |                                     |           |
|------------------|-------------------------------------|-----------|
| Editor           | <i>Developmental Psychology</i>     | 1999–2004 |
| Associate Editor | <i>Developmental Psychology</i>     | 1994–1998 |
| Editorial Boards | <i>Child Development</i>            | 1994–1995 |
|                  | <i>Infant and Child Development</i> | Current   |

### National Science Foundation

- |                                  |           |
|----------------------------------|-----------|
| Grant Review Panel Member        | 2000–2002 |
| Grant Review Panel Ad Hoc Member | 2005      |
| Grant Review Panel Member        | 2008–2011 |

**University of Wisconsin**

Letters and Sciences Institutional Review Board (IRB) 2002–2005

**National Institutes of Health**

Cognition and Perception Study Section, NIH, Ad Hoc Member 2004

**Rice University**

Institutional Review Board (IRB) August, 2007–present  
 Author, Psychology Internal Review Spring, 2013

**Manuscript Reviewer**

*Infant Behavior and Development*  
*Vision Research*  
*Perception & Psychophysics*  
*Behavioral & Brain Sciences*  
*Journal of Experimental Child Psychology*  
*Journal of Experimental Psychology: Human Perception & Performance*

**BOOK CHAPTERS**

**PEER-REVIEWED ARTICLES**

Articles: 0 Book Chapters: 0

January 24, 2019 Total Publications: 0

**NON-AUTHORSHIP PAPERS MADE POSSIBLE BY DATA THAT I COLLECTED AND MADE AVAILABLE TO OTHER RESEARCHERS. I ALSO SUPERVISED THE DISSERTATION OF R. LUNDWALL.**

- [1] 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

**RECENT NON-AUTHORSHIP PAPERS FROM STUDENTS WHOSE PH.D DISSERTATIONS I SUPERVISED (R. LUNDWALL)**

- [1] Lundwall, R. A., Sgro, J. F., & Fanger, J. (2018). Response time scores on a reflexive attention task predict a child’s inattention score from a parent report. *PLoS one*, 13(1), e0190724.

**PAPERS OR CHAPTERS SUBMITTED, IN REVISION, OR IN PREPARATION**

**In preparation**

- [1] Dannemiller, J. L. Allele specific expression and genotype–phenotype associations.
- [2] Dannemiller, J. L. Using gene co-expression to understand conflicting phenotypic results on *COMT*.

- [3] Dannemiller, J. L. and Urquhart, Robert L. Mutual information over short distances in the promoters of human genes.
- [4] Dannemiller, J. L. Embodied experience: Tracing environmental effects through the body's genes and biological pathways.

January 24, 2019      Manuscripts Submitted (o), In Revision (o), or In Preparation (4): 4

### CONFERENCE PROCEEDINGS AND INVITED ADDRESSES

- 1980 [1] Dannemiller, J. L. (1980). The use of a criterion in the infant habituation paradigm. International Conference on Infant Studies, New Haven.
- 1982 [2] Dannemiller, J. L., & Banks, M. S. (1982). Light adaptation in human infants. International Conference on Infant Studies, Austin.
- 1983 [3] Dannemiller, J. L. (1983). Early dark adaptation in human infants. Society for Research in Child Development, Detroit.
- 1984 [4] Dannemiller, J. L. (1984). The development of light adaptation in human infants. International Conference on Infant Studies, New York.
- [5] Banks, M. S., Dannemiller, J. L., & Manny, R. E. (1984). A model of steady-state accommodation. Association for Research in Vision and Ophthalmology, Sarasota.
- 1985 [6] Dannemiller, J. L., & Hanks, S. A. (1985). A test of color constancy in 4-month-olds. Society for Research in Child Development, Toronto.
- 1986 [7] Dannemiller, J. L., & Stephens, B. S. (1986). A critical test of infant pattern preference models. International Conference on Infant Studies, Los Angeles.
- [8] Dannemiller, J. L., & Ver Hoeve, J. S. (1986). Asynchronous maturation of visual system structures: Lessons from color blindness. International Conference on Infant Studies, Los Angeles.
- 1987 [9] Freedland, R., & Dannemiller, J. (April, 1987). Detection of stimulus motion in 5-month-olds. Society for Research in Child Development.
- 1988[10] Dannemiller, J., & Freedland, R. (April, 1988). Detection of slow stimulus movement in young infants. International Conference on Infant Studies, Washington, D. C.
- [11] Dannemiller, J., & Babler, T. (May, 1988). Perception of spatially sampled motion. Association for Research in Vision and Ophthalmology, Sarasota, Florida.
- [12] VerHoeve, J., & Dannemiller, J. (May, 1988). A two-dimensional approach to Psychophysical Orientation tuning. Association for Research in Vision and Ophthalmology.
- [13] Balaban, M., & Dannemiller, J. (October, 1988). Cardiac and behavioral aspects of visual preferences in young infants. Society for Psychophysiological Research, San Francisco, CA.

- 1989[14] Heidenreich, S., Babler, T., & Dannemiller, J. (May, 1989). Mechanisms underlying the perception of spatially sampled motion. Presentation at the Annual meeting of The Association for Research in Vision and Ophthalmology, Sarasota.
- [15] Dannemiller, J., Freedland, R., & Balaban, M. (May, 1989). Discrimination of types of relative motion by human infants. Presentation at the Annual meeting of The Association for Research in Vision and Ophthalmology, Sarasota.
- [16] Dannemiller, J. (June, 1989). Detection of motion by human infants. Invited address, Department of Physiological Optics, University of Alabama, Birmingham.
- [17] Balaban, M., & Dannemiller, J. (October, 1989). Recognition of novel visual patterns in young infants: Cardiac responses and visual fixation. Society for Psychophysiological Research, New Orleans.
- 1990[18] Dannemiller, J. (May, 1990). Speed discrimination in human infants. Presentation at the Annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota.
- [19] Freedland, R., & Dannemiller, J. (May, 1990). Evidence for a nonlinear pattern vision process in 12-week-old human infants. Presentation at the Annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota.
- 1991[20] Dannemiller, J. L., & Freedland, R. L. (May, 1991). Detection of standing wave motion by human infants. Presentation at the Annual Meeting of the Association for Research in Vision and Ophthalmology, Sarasota.
- [21] Heidenreich, S. M., & Dannemiller, J. L. (May, 1991). Nonlocal pattern information affects motion interference. Presentation at the Annual Meeting of the Association for Research in Vision and Ophthalmology, Sarasota.
- [22] Dannemiller, J. L. (May, 1991). Detection of motion by human infants. Invited address. Annual Meeting of the Midwestern Psychological Association, Chicago.
- 1992[23] Dannemiller, J. L. (May, 1992). Speed determines infants' detection of standing wave motion. Presentation at the Annual Meeting of the Association for Research in Vision and Ophthalmology, Sarasota.
- [24] Dannemiller, J. L. (1992). Two studies of early sensitivity to motion. School of Optometry, University of California-Berkeley, November.
- 1993[25] Dannemiller, J. L. (1993). Converging evidence for infants' sensitivity to visual motion. Paper presented at the meeting of the Society for Research in Child Development, New Orleans.
- [26] Dannemiller, J. (1993). Infants' detection of dynamic changes in line orientation. Annual Meeting of the Association for Research in Vision and Ophthalmology, Sarasota, Florida, May.
- [27] Dannemiller, J. (1993). Research on early sensory/perceptual development. Twentieth Anniversary Celebration of the Waisman Center on Mental Retardation and Human Development. Madison, September 9.
- 1994[28] Dannemiller, J. L. (May, 1994). Infants' detection of traveling and standing wave line motion. Presentation at the Annual Meeting of the Association for Research in Vision and Ophthalmology, Sarasota.

- [29] Dannemiller, J. L. (June, 1994). Infants' sensitivity to standing and traveling wave motion. International Conference on infant Studies, Paris, France.
- 1995 [30] Roessler, J. & Dannemiller, J. (March, 1995). Development of motion sensitivity in infants 12 to 24 weeks. Presentation at the Society for Research in Child Development, Indianapolis.
- [31] Roessler, J. & Dannemiller, J. (May, 1995). Infants' sensitivity to slow displacements over the first six months. Presentation at the Annual Meeting of the Association for Research in Vision and Ophthalmology, Sarasota.
- [32] Nagata, Y. & Dannemiller, J. (May, 1995). Infants' detection of target motion is affected by visual field heterogeneity. Presentation at the Annual Meeting of the Association for Research in Vision and Ophthalmology, Sarasota.
- [33] Rogers, S., Li, H.-C., & Dannemiller, J. (May, 1995). Scaling not disparity curvature explains 3-D shape perception. Presentation at the Annual Meeting of the Association for Research in Vision and Ophthalmology, Sarasota.
- [34] Nagata, Y. & Dannemiller, J. (October, 1995). Infants' attention to motion under conditions of visual field heterogeneity. Presentation at the 59th Meeting of the Japanese Psychological Association, Okinawa, Japan.
- 1996 [35] Dannemiller, J. (March 15, 1996). Visual Motion Sensitivity Early in Development. Invited talk, Department of Psychology, University of Toronto.
- [36] Nagata, Y., Dannemiller, J., & Wagner, K. (April, 1996). Infants' attention to motion onset is distracted by static distractors. Presentation at the Association for Research in Vision and Ophthalmology, Ft. Lauderdale.
- [37] Dannemiller, J., & Stephens, B. (April, 1996). The influence of temporal factors on spatial contrast discrimination. Presentation at the Association for Research in Vision and Ophthalmology, Ft. Lauderdale.
- [38] Li, Hyung-Chul, Dannemiller, J., & Epstein, W. (November 1, 1996) Perceiving direction reversals in rotating random dot cylinders. Presentation at the Meeting of the Psychonomic Society, Chicago.
- [39] Dannemiller, J. (November 1, 1996). Perception in action: What have we learned from chasing fly balls? Invited address, Vrije Universiteit, Amsterdam, The Netherlands.
- [40] Dannemiller, J. (November 21, 1996). Catching fly balls: A grounded case of perception and action. Invited address, Center for Research in Learning, Perception and Cognition, University of Minnesota.
- 1997 [41] McAvery, S., Pruit, A., Stephens, B., & Dannemiller, J. (April, 1997). Contrast gain control: temporal factors in contrast discrimination. Southeastern Psychological Association, Atlanta.
- [42] Dannemiller, J. L. (April 5, 1997). Separating position and motion sensitivity in early visual development. Society for Research in Child Development, Washington, D.C.
- [43] Stephens, B. R. & Dannemiller, J. L. (May, 1997). Contrast gain control in contrast discrimination. Association for Research in Vision and Ophthalmology, Ft. Lauderdale.

- [44] Li, H.-C. & Dannemiller, J. L. (May, 1997). Perceiving direction reversals in structure-from-motion. Association for Research in Vision and Ophthalmology, Ft. Lauderdale.
- 1998[45] Dannemiller, J. L. (April, 1998). A competition model of early exogenous orienting. Paper presented at the International Conference on Infant Studies, Atlanta.
- [46] Stephens, B., Bundrick, C., & Dannemiller, J. L. (May, 1998). Contrast gain control and spatial frequency bandwidth. Association for Research in Vision and Ophthalmology, Ft. Lauderdale.
- [47] Lewis, T., Mondloch, C., Budreau, D., Maurer, D., Dannemiller, J., Stephens, B., & Kleiner, K. (April, 1998). Face perception in young infants. International Conference on Infant Studies, Atlanta.
- 2000[48] Dannemiller, J. L. (February, 2000). Early selective attention. Invited presentation—consultant for Sackler Panel on funding for perceptual, attentional and cognitive development, New Orleans.
- [49] Dannemiller, J. L. (May, 2000). Visual orienting in infants with multiple targets in the visual field. Association for Research in Vision and Ophthalmology, Ft. Lauderdale.
- [50] Dannemiller, J. L. (June 3, 2000). Competition in Stimulus-Driven Orienting During Early Infancy. Invited talk, Villanova Capture Conference, Sponsored by NSF. Villanova University.
- 2001[51] Dannemiller, J. L. (May 1, 2001). Infants' detection of a moving target among static distractors: Test of a maximum response model. Association for Research in Vision and Ophthalmology, Ft. Lauderdale.
- [52] Dannemiller, J. L. (October 6, 2001). Forced-choice preferential looking and exogenous orienting in infancy. McDonnell Workshop on Infant Looking Time Methods, Tarrytown, NY.
- 2002[53] Dannemiller, J. L. (January 6, 2002). Modeling exogenous orienting in human infants: Motion pops-out (sometimes). Invited talk, Department of Psychology, Washington University, St. Louis, MO.
- [54] Dannemiller, J. L. (May 6, 2002). Modeling exogenous orienting in human infants: Motion pops-out (sometimes). Invited talk, Department of Psychology, University of Houston, Houston, TX.
- [55] Stephens, B., & Dannemiller, J. L. (May 10, 2002). Decruitment effects for magnitude estimates of pattern contrast. Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- [56] Dannemiller, J. L. (May 14, 2002). Motion pop-out in young human infants. Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- 2003[57] Dannemiller, J. L. (February, 2003). Current trends in developmental psychology. Invited address, University of Texas at Austin Graduate Alumnae Conference, Austin, TX.
- [58] Dannemiller, J. L. (April, 2003). Dimensional switching across trials in infant visual orienting. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Tampa, FL.
- [59] Stephens, B. R., Dannemiller, J. L., & Diebel, J. (May, 2003). Contrast decruitment is reduced in matching procedure. Annual Meeting of the Vision Sciences Society, Sarasota, FL.

- [60] Ward, A. W., Stephens, B. R., & Dannemiller, J. L. (May, 2003). Adult perception of schematic faces that infants prefer. Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- [61] Dannemiller, J. L. (May, 2003). A dimensional switching model of early visual orienting in human infants. Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- 2004[62] Dannemiller, J. L. (March 4, 2004). Modeling exogenous orienting in human infants. Colloquium, Department of Neurobiology and Anatomy, University of Texas Health Science Center at Houston.
- [63] Dannemiller, J. L. (October 13, 2004). Modeling orienting to multi-element displays in human infants. Colloquium, School of Optometry, University of Houston, Houston, TX.
- 2005[64] Dannemiller, J. L. (May, 2005). A contrast polarity heterogeneity effect in infant visual orienting. Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- [65] Dannemiller, J. L. (November, 2005). Competition and Models of Exogenous Orienting by Human Infants. Invited talk, Cognoscenti Series, Department of Psychology, Texas A & M University, College Station, TX.
- 2006[66] Dannemiller, J. L., & Lunsford, M. (May, 2006). Perceptual integration with parabolic contours. Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- [67] Braun, A., & Dannemiller, J. L. (May, 2006). Dual uninformative cues and graded facilitation. Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- [68] Dannemiller, J. L. (November, 2006). Contrast and element density effects in infant visual orienting. Zlotowski Neuroscience Center, Ben Gurion University, Be'er Sheva, Israel.
- [69] Dannemiller, J. L. (November, 2006). Modeling visual orienting in human infants. Department of Psychology, Ben Gurion University, Be'er Sheva, Israel.
- [70] Dannemiller, J. L. (December, 2006). Birth weight and infant visual orienting. Developmental Forum, Ben Gurion University, Be'er Sheva, Israel.
- 2007[71] Hamel, M., & Dannemiller, J. L. (May, 2007). Element grouping with semicircular contours. Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- [72] Boyer, J., & Dannemiller, J. L. (May, 2007). The effects of unattended congruency on attended targets. Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- [73] Illiescu, B., & Dannemiller, J. L. (May, 2007). Opposite directions of motion enhance the perception of stereoscopic depth. Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- 2008[74] Dannemiller, J. L., & Hamel, M. (May, 2009). Perturbations of element orientations reveal grouping processes in contour integration. Annual Meeting of the Vision Sciences Society, Naples, FL.
- [75] Lundwall, R. A., & Dannemiller, J. L. (November, 2009). Bilateral Visual Orienting with Adults Using a Modified Posner Paradigm and a Candidate Gene Study. Armadillo, Houston, TX.
- 2010[76] Lundwall, R. A., & Dannemiller, J. L. (May, 2010). Bilateral Visual Orienting with Adults Using a Modified Posner Paradigm and a Candidate Gene Study. Annual Meeting of the Vision Sciences Society, Naples, FL.

- 2011[77] Lundwall, R. A., Guo, D., & Dannemiller, J. L. (April, 2011). Visual orienting is associated with specific neurotransmitter genetic markers. Annual Meeting of the Cognitive Neuroscience Society, San Francisco.
- [78] Lundwall, R. A., & Dannemiller, J. L. (2011, December). Genetic Associations with Cued Visual Orienting in Normal Adults. Poster presentation at the Neuroscience Research Center Competition, Houston, TX.
- 2012[79] Dannemiller, J. L. (May, 2012). A Gene x Gene Interaction in the Attentional Cost of an Invalid Visual Cue. Annual Meeting of the Vision Sciences Society, Naples, FL.
- [80] Dannemiller, J. L. (June, 2012). Genetic Associations with Visual Orienting in Adults. Invited Seminar: John D. Wiley Seminar Series, Waisman Center, University of Wisconsin – Madison, Madison, WI.
- 2013[81] Lundwall, R. A., & Dannemiller, J. L. (2013, June). Visual Attention: Longitudinal Associations in Infancy & Childhood. Oral presentation at the annual meeting of the Child Vision Research Society, Waterloo, Ontario, Canada.
- 2014[82] Dannemiller, J. L. (October, 2014). Allele Specific Expression Can Reduce Apparent Genotype/Phenotype Relations: A Simulation Study. Annual meeting of the American Society for Human Genetics, San Diego, CA.
- 2015[83] Lundwall, R., Schmidt, N., Van Hulle, C., Dannemiller, J., & Goldsmith, H. (March, 2015). Different genes contribute to aggression in boys and girls. Bi-ennial meeting of the Society for Research in Child Development, Philadelphia, PA.
- 2015[84] Dannemiller, J. (October, 2015). Allele Specific Expression Can Substantially Limit Genotype/Phenotype Associations. Annual Meeting of the American Society for Human Genetics, Baltimore, MD.
- 2016[85] Dannemiller, J. (October, 2016). Modeling the effects of linkage disequilibrium and allele specific expression on genotype/phenotype relations. Annual Meeting of the American Society for Human Genetics, Vancouver, BC, CA.
- 2017[86] Dannemiller, J. (October, 2017). Estimating the impact of allele specific expression on detecting genetic associations. Annual Meeting of the American Society for Human Genetics, Orlando, FL. **[This presentation won the Reviewer's Choice Award at the 2017 conference.]**
- 2018[87] Dannemiller, J. (October, 2018). Positive and negative co-expression with *COMT* in four brain areas. Annual Meeting of the American Society for Human Genetics, Orlando, FL.

January 24, 2019      Invited Talks or Conference Presentations: 87

## TEACHING & TRAINING

### Teaching

#### Undergraduate

Statistics



Advanced Statistics for Undergraduates  
 Pollution and Psychological Development  
 Genes and Cognition

**Graduate**

Early Sensory, Perceptual and Attentional Development  
 Vision Science  
 Vision and Visual Development  
 Seminar in Genes and Cognition

**Training**

**Ph. D. and Postdoctoral Students**

<b>Name</b>	<b>Degree</b>	<b>Institution</b>
Timothy Babler	Ph. D.	Edgewood College
Marie Balaban	Ph. D.	Eastern Orgegon University
Jennifer Boyer	Ph. D.	NASA —Johnson Space Center
Robert Freedland	Ph. D.	CUNY - Staten Island
Melanie Hamel	Ph. D.	Private Design Practice
Susan Heidenreich	Ph. D.	University of San Francsico
Hyung-Chul Li	Ph. D.	Kwangwoon University
Rebecca Lundwall	Ph. D.	Brigham Young University
Yoko Nagata	Post-Doc	Komazawa University

**FUNDED GRANT HISTORY**

*Intramural*

- Infant pattern vision. University of Wisconsin Biomedical Research Support Grant, 1983–1984, \$9,800.
- A preliminary test of pupillometry with infants. Wisconsin Alumni Research Foundation, 1984–1985, \$12,300.
- Tests for the development of chromatic opponency during infancy. Wisconsin Alumni Research Foundation, 1985–1986, \$13,800.
- Development of color vision. Wisconsin Alumni Research Foundation, 1986–1987, \$9,936.
- Magnetic Resonance Imaging Quantification of Brain Damage in Prematurely Born Infants: Relations with Visual Attention Measures at 6 Months of Age. Rice University, Social Sciences Research Institute Research Professorship, 6 month research leave of absence (deferred while I was serving as Chair of the Psychology Department at Rice).
- Visual Attention: Development and Genetics. Rice University, Social Sciences Research Institute, March, 2012–March, 2013, \$19, 884 (Dissertation support for Rebecca A. Lundwall).

*Extramural*

- Development of motion perception. NIH-NICHHD, 8-01-87 through 7-31-90, \$196,859.<sup>1</sup>
- Development of motion perception. NIH-NICHHD, 8-01-90 through 7-31-95, \$462,651.
- The development of selective visual attention. NIH-NICHHD, 8-01-96 through 7-31-2001 \$658,920.
- The development of selective visual attention. NIH-NICHHD, 8-01-2001 through 7-31-2008 \$1,915,200.

January 24, 2019      Federal Funding to Date (Direct + Indirect Costs): \$3,233,630

#### *Recently Submitted*

- *Can Allele Specific Expression Account for Missing Heritability in Genetic Association Studies?* Submitted on 4/15/2015 to Google Faculty Research Awards, \$37,863. Not funded but revision encouraged.
- *Allele Specific Expression and Regulatory Loci.* Submitted on 10/15/2015 to Google Faculty Research Awards, \$37,863. Not funded.

#### *In Preparation*

- *Using gene expression networks to explain conflicting behavioral phenotypic results with a single gene: The case of COMT.* I am currently searching for a private funding source. The data collected from this project would then be used to submit an application to NSF.

## **PROFESSIONAL ORGANIZATIONS**

- *Fellow*, American Psychological Society
- American Society for Human Genetics

Last updated: January 24, 2019 • Typeset in L<sup>A</sup>T<sub>E</sub>X<sub>2</sub> $\epsilon$   
<http://psychology.rice.edu/Dannemiller>

<sup>1</sup>Amounts shown are Direct plus Indirect costs across the entire grant period.