

CURRICULUM VITAE

Jane W. Couperus

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CURRENT POSITION

Foundation for Psychocultural Research – Hampshire College Program in Culture, Brain, and Development Assistant Professor of Developmental Cognitive Neuroscience
Hampshire College, Amherst MA, July 2004-Present

EDUCATION

University of Minnesota, Minneapolis, MN

Attended Sept. 2000-July 2004

PhD. in Child Development, minor in Neuroscience, GPA: 4.00

Claremont Graduate University, Claremont, CA

Attended Sept. 1997-May 2000

M.A. in Applied Developmental Psychology, Sept. 1999 GPA: 3.84

Wesleyan University, Middletown, CT

Attended Jan. 1994-May 1996

B.A. in Psychology and Music, May 1996, Cum. GPA: 3.96 (95.22)

Hamilton College, Clinton, NY

Attended Aug. 1992-Dec. 1993, Cum. GPA: 3.62 (91.52)

SCHOLARSHIPS AND HONORS

Dissertation Fellowship: 2003-2004

Eva O. Miller Fellowship: 2002-2003

Cognitive Science Center Traineeship: 2001-2002

Graduate School Fellowship: 2000-2001

Phi Beta Kappa: Inducted Spring 1996

Thorndike Prize (Excellence in Psychology): Spring 1996

Psi Chi President: 1995-1996 Secretary: 1994-1995

Charles A. Dana Prize Scholarship (Leadership in Academics): Fall 1993

GRANTS

Cognitive Neuroscience Grant (anonymous donor to Hampshire): \$20,000, 2007
Faculty Development Grant: \$1000, 2007; \$1500, 2008
Faculty Development Summer Grants (Keck Grant): \$1250, 2005; \$1450, 2006; \$2000, 2007
Institute of Child Development Small Grant: \$500, Fall 2004
Center for Neurobehavioral Development Small Grant: \$800, Fall 2004
Cognitive Science Center Mini-Grant: \$500, Spring 2001

PUBLICATIONS AND CONFERENCE PRESENTATIONS

Publications

Couperus, J. W. (2009) Implicit learning modulates selective attention at sensory levels of perceptual processing. *Attention, Perception, and Psychophysics* 71(2), 342-351.
doi:10.3758/APP.71.2.342

Karatekin, C., Couperus, J. W., Marcus, D. J., & White, T. J. (2008). Effects of delay and retrieval mode on memory-guided saccades in 10-year-olds and adults. In N. B. Johansen (Ed.), *New Research on Short-Term Memory*. Happaage, NY: Nova Science Publishers.

Karatekin, C., Marcus, D., & Couperus, J.,W. (2007). *Regulation of Cognitive Resources During Sustained Attention and Working Memory in 10-year-olds and Adults*. *Psychophysiology*, 44(1), 128-144.

Couperus, J.W. & C.A. Nelson (2006). Early Brain Development and Plasticity. In K. McCartney and D. Phillips (Eds), *The Blackwell Handbook of Early Childhood Development*. NY:Blackwell.

Karatekin, C., Couperus, J.W., Marcus, D.J. (2004). *Attention allocation on the dual task paradigm as measured through behavioral and psychophysiological responses*. *Psychophysiology* 41(2), 175-185.

Couperus, J.W., Hunt, R., Nelson, C.A., Thomas, K. (under review). *Selection and Filtering in Visual Search: Differential Effects in 10-Year-Old Children and Adults*.

**Benau, E. M., Morris, J., Couperus, J.W. (under review). *Semantic processing in 10 year olds and adults: Incongruity and the N400*.

Hunt, R. H., Couperus, J.W., Nelson, C.A., Thomas, K.M. (under review). *Continuous recognition memory in adults and children: An ERP study of parametric memory load manipulation*. Manuscript in preparation.

Thomas, K.M., Hunt, R.H., Townsend, E.L., Couperus, J.W., Mueller, B.A. & Nelson, C.A (in preparation). *Developmental Differences in Continuous Recognition Memory: An fMRI Study of Medial Temporal Lobe Function*. Manuscript in preparation.

**=study designed by undergraduate and written up for publication by Couperus

Conference Presentations

Couperus, J.W., *Girard, C. (April 2009). *Modulation of Early Visual Processing by Selective Attention in Adolescents: An ERP Study*. Poster session presented at the 2009 Biennial Meeting of the Society for Research in Child Development, Denver, CO.

Couperus, J.W. (April 2009). *Neurological and Biological Perspectives on Executive Attention Across Childhood and Adolescence*. Paper symposium chair at the 2009 Biennial Meeting of the Society for Research in Child Development, Denver, CO.

Couperus, J.W. (April 2009). *Modulation of Early Visual Selection as a Function of Perceptual Load Across Development: An ERP Study*. Paper presentation at the 2009 Biennial Meeting of the Society for Research in Child Development, Denver, CO.

Couperus, J.W., Mangun, G.R. (March 2009) *Separable Mechanisms of Signal Enhancement and Signal Suppression During Visual-Spatial Selective Attention*. Slide Presentation at the 16th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA

Couperus, J.W. (April 2008). *Modulation of P1 as a Function of Visual Selective Attention in Adults and Children* Poster session presented at the 15th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Couperus, J.W., *Landis, M. L., *Frady, T.D. (May 2007). *Flexing Selective Attention: Electrophysiological Correlates of Shifting between Early and Late Selective Attention*. Poster session presented at the 14th Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

Couperus, J.W. (Apr. 2006). *Implicit Learning and Selective Attention to Parafoveal Stimuli: An Electrophysiological Study*. Poster session presented at the 13th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Couperus, J.W., Hunt, R., Nelson, C.A., Thomas, K. (Apr. 2005). *Selective Attention Development Affects Implicit Learning*. Poster session presented at the 2005 Biennial Meeting of the Society for Research in Child Development, Atlanta, GA.

Hunt, R.H., Couperus, J.W., Townsend, E.L., Nelson, C.A., Thomas, K.M. (Apr. 2005). *Developmental Differences in Continuous Recognition Memory: An fMRI and ERP Study of Parametrically Manipulated Memory Load*. Paper presented at the 2005 Biennial Meeting of the Society for Research in Child Development, Atlanta, GA.

Hunt, R.H., Townsend, E.L., Couperus, J.W., Nelson, C.A., Thomas, K.M. (Apr. 2005). *A Developmental fMRI Study of Medial Temporal Lobe Function: Differences in Continuous Recognition Memory*. Poster session presented at the 2005 Biennial Meeting of the Society for Research in Child Development, Atlanta, GA.

Hunt, R. H., Couperus, J.W., Nelson, C.A., Thomas, K.M. (June 2004). *Continuous recognition memory in adults and children: An ERP study of parametric memory load manipulation*. Poster session presented at the 10th Annual Meeting of the Organization for Human Brain Mapping, Budapest, Hungary.

Thomas, K.M., Hunt, R.H., Townsend, E.L., Couperus, J.W., Nelson, C.A., Mueller, B.A. (June 2004). *Developmental Differences in Continuous Recognition Memory: An fMRI Study of Medial Temporal Lobe Function*. Poster session presented at the 10th Annual Meeting of the Organization for Human Brain Mapping, Budapest, Hungary.

Hunt, R. H., Couperus, J.W., Nelson, C.A., Thomas, K.M. (Apr. 2004). *Electrophysiological Correlates of Continuous Recognition Memory in Adults and Children: A Parametric Manipulation of Memory Load*. Poster session presented at the 11th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Thomas, K.M., Hunt, R.H., Townsend, E.L., Couperus, J.W., Nelson, C.A., Mueller, B.A. (Apr. 2004). *Developmental Differences in Hippocampal Function: An FMRI Study of Continuous Recognition Memory*. Poster session presented at the 11th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Couperus, J.W., Nelson, C.A. (Apr. 2003). *Electrophysiological Correlates of Working Memory and Attention Across Modalities*. Poster session presented at the 10th Annual Meeting of the Cognitive Neuroscience Society, New York City, NY.

Couperus, J.,W., Karatekin, C., Marcus, D. (Apr. 2002). *Attention Allocation on a Dual Task Paradigm as Measured by Task-evoked Pupillary Responses*. Poster session presented at the 9th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Marcus, D., Karatekin, C., Couperus, J.,W. (Apr. 2002). *Behavioral and Psychophysiological Measures of Working Memory on the N-Back Task*. Poster session presented at the 9th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Karatekin, C., Couperus, J.,W. (Apr. 2002). *An Oculomotor Study of the Effects of Delay and Response Mode on Spatial and Spatial-temporal Working Memory*. Poster session presented at the 9th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Couperus, J.W., Neufeld, S., (Apr. 1999). *Rule Systems and the Socialization of Children with Hearing Impairments*. Poster session presented at the Society for Research in Child Development Biennial Meeting, Albuquerque, NM.

Seamon, J., Couperus, J.W., et al., (Nov. 1995). *The Mere Exposure Effect Demonstrates Long-Term Implicit Memory*. Poster session presented at the 36th Annual Meeting, The Psychonomic Society, Los Angeles, CA.

Conference Presentations With Undergraduates of Undergraduate Projects

*Benau, E., Morris, J., *Ratzan, E., *Frady, T., Couperus, J.W. (April 2008). *Reading, The Brain, and Reading the Brain: Does Working Memory Affect N400 Amplitude?* Poster session presented at the 15th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

*Isserman, N.J., *Gordon-McKeon, S., *Frady, T., Couperus, J.W. (April 2008). *Economics, Emotion, and Electroencephalography: ERP correlates of decision-making in the Ultimatum Game* Poster session presented at the 15th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

*Moser, N., *Pressman, A., *Chakroff, A., Couperus, J.W. (Apr. 2006). *Variations in Cognitive Processing of Temporal Auditory Structures*. Poster session presented at the 13th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

*=undergraduates

Unpublished Manuscripts

Couperus, J.W., Nelson, C.A. (2003). *Electrophysiological Correlates of Working Memory Across Modalities*. Unpublished manuscript.

Masters Thesis:

Couperus, J. (1999). *Parental Rule Systems and Child Compliance in Children with Hearing Impairments*. Unpublished manuscript.

Undergraduate Senior Honors Thesis:

Couperus, J. (1996). *Mere Exposure and Recognition for Novel Musical Pieces*. Unpublished manuscript.

RESEARCH EXPERIENCE

University of California at Davis, Davis, CA

Research Associate Without Salary, Sabbatical Fall 2007

- Research examining the relationship between facilitation and suppression within selective attention.

Hampshire College, Amherst, MA

Research Interests: Neurological substrates of attention, memory, and learning. Current research examines the development of selective attention and its role in implicit learning as well as the neurological processes involved in attention and learning. Additionally, changes in these neurological processes across development are being examined.

Institute of Child Development, University of Minnesota, Minneapolis, MN

Personal Research: Sept. 2000-July 2004

- Research topics: ERP studies of working memory and attention and behavioral study of implicit learning and selective attention

Research Assistant: Cognitive Developmental Neuroimaging Lab: Mentor Dr. K.M. Thomas: Sept. 2002-July 2004

- Research topics: Assisted with KSADS for a study of implicit learning in children, assisted with fMRI's of children who were born to diabetic mothers examining memory development

Research Assistant: Developmental Cognitive Neuroscience Lab: Mentor: Dr. C.A. Nelson: Sept. 2000-July 2004

- Research topics: Worked on various projects including; Lisa Scott's study of working memory, Elise Townsend's study of children with cardiac impairments (examining memory), and Dr. Nelson's Infants of Diabetic Mothers study that examined children's memory development using the EGI system to obtain ERPs

Research Assistant: Karatekin Lab: Mentor: Dr. C. Karatekin: Sept. 2000-May 2002

- Research topics: Working memory and attention studied using behavioral and pupillary responses

Claremont Graduate University, Claremont, CA

Research Assistant: The Rancho Project: Sept. 1997-Summer 1999

- Research topic: The effects of Orthopedic Disability on Social Interaction

Personal Research: Sept. 1997-May 1999

- Research topic: Parental Rule Systems for Children with Hearing Impairments

McLean Hospital, Belmont, MA

Research Assistant: Dr. Martin Tiecher in the Child and Adolescent Neuropsychology Department: Feb.-June 1997

- Research topic: ADHD

Wesleyan University, Middletown, CT

Student Research Assistant: John Seamon's Memory Lab: Academic Year 1994-1995 and 1995-1996

- Research topic: Mere exposure for visual stimuli with concurrent memory load (auditory/visual).

TEACHING EXPERIENCE

Hampshire College, Amherst, MA

FPR Assistant Professor of Developmental Cognitive Neuroscience: Fall 2004-present

Courses taught include:

- Birth of Mind: Biological Foundations of Psychological Development; Fall 2004, 2005; Spring 2008

- Adolescence: Culture, Brain, and Development; Spring 2007,2009
- Neuroscience of Personality; Spring 2007
- Brain and Cognition II: ERP Methodologies, Spring 2005
- Attention, Brain, and Cognition: Electrophysiological Methodologies, Fall 2006, Spring 2009
- Sex on the Brain: Sex, gender, and biology, Fall 2004; Spring 2006, 2008
- The Plastic Brain; Spring 2005, Fall 2008
- Developmental Psychopathology; Fall 2005, Fall 2006, 2008
- Emotions and the Brain: Culture, Brain, and Development; Co-taught Spring 2006
- Independent Study; Fall 2004 - present
Topics: Cross-modal memory and ERPs, Categorization and memory in children, ERP Methodologies, Attention and Memory, Division III Projects (various topics)

Institute of Child Development, University of Minnesota, Minneapolis, MN

Instructor

- Prenatal Development and the Environment; Summer 2003

Co-Instructor

- Biological Foundations of Development; Fall 2002
- Introduction to Child Psychology; Spring 2002

Teaching Assistant

- Research Methods; Spring 2002, Spring 2003
- Perception; Fall 2001

Claremont Graduate University, Claremont, CA

Teaching Assistant

- Intermediate Psychological Statistics, ANOVA, Multiple Regression: Fall 1998, Spring 1999

California State University at San Bernadino, San Bernadino, CA

Guest Lecture

- Cognitive Development in Middle Childhood; Fall 1999 (Psychology of Middle Childhood course taught by Susan Neufeld, M.A.)

The Arlington School, Belmont, MA

Teaching Assistant/Substitute Teacher/Math Tutor: Feb.-June 1997

- Worked full time with adolescents in a point-five private school for adolescents with severe emotional and psychiatric problems. Assisted a photography and multimedia class (3-4 classes a day), assisted an art class (1-2 classes a day), taught mathematics (Algebra I/II, Geometry) (1-3 classes a day), acted as a substitute teacher in various classrooms when required.

Wesleyan University, Middletown, CT

Teaching Assistant

- Psychological Statistics and Statistics Lab; Spring 1995
- Perception; Fall Semester 1995

PROFESSIONAL ACTIVITIES

Textbook Reviews:

Feldman, R. S. (2008). Understanding Psychology 9th Ed. And Essentials of Understanding Psychology 8th Ed. New York: McGraw Hill

-Edited and revised/rewrote the Neuroscience boxes with updated articles.

Feldman, R. S. (2007). Understanding Psychology 9th Ed. And Essentials of Understanding Psychology 8th Ed. New York: McGraw Hill

-Recommended 2-3 Neuroscience articles that could be included for each chapter

Santrock, J. (2007). Child Development 7th Ed. New York: McGraw Hill.

-Reviewed for brain and brain development content

Patterson, Charlotte, J. (2007). Child Development. New York: McGraw Hill.

-Reviewed for brain and brain development content

Ad Hoc Journal Reviews:

Neuroscience Letters

Brain and Cognition

International Journal of Psychophysiology

Psychological Bulletin and Review

Grant Reviews:

U.S. Civilian Research & Development Foundation (CRDF)

PROFESSIONAL AFFILIATIONS

Cognitive Neuroscience Society (CNS):

Regular Member: Jan. 2005-present

Graduate Student Affiliate: Spring 2001-Fall 2004

Society for Research in Child Development (SRCD):

Regular Member: Jan. 2005-present

Student Member: June 1998- Spring 2003

American Psychological Association (APA):

Graduate Student Affiliate Sept. 1998-Fall 2001

COMMITTEE WORK/INSTITUTIONAL AFFILIATIONS

Institutional Affiliations

Hampshire College, Amherst, MA

- Member Hampshire Culture Brain and Development Program, Fall 2004-present
- Member Childhood, Youth and Learning Program, Spring 2005-present

University of Minnesota, Minneapolis, MN

- Alumni Member of the Center for Neurobehavioral Development, July 2004-present
- Graduate Student Member of the Center for Neurobehavioral Development, Fall 2001-July 2004
- Associate Member of the Cognitive Science Center, Fall 2001-present.
- Affiliate Member of the Cognitive Science Center, Fall 2000- Spring 2001

Committee Work

Hampshire College, Amherst, MA

- Steering Committee Member, Hampshire Culture Brain and Development Program, Fall 2004-present
- Hampshire Alcohol and Drug Task Force, Spring 2008-present
- Educational Planning Committee, Fall 2008 – present
- College Retention Committee, Fall 2008 – present
- Division III Exceptions Committee, Fall 2008 - present
- Internal Review Board Member, Fall 2005-Spring 2006; Chair, Fall 2006-Spring 2007
- Judicial Council Committee, Fall 2004-Spring 2005

Institute of Child Development, University of Minnesota, Minneapolis, MN

- Prospective Student Visit Committee, Fall 2000-Summer 2004

Cognitive Science Center, University of Minnesota, Minneapolis, MN

- External Colloquium Committee, Fall 2001-Spring 2002
- Internal Colloquium Committee, Fall 2002-Spring 2003

Claremont Graduate University, Claremont, CA

- Graduate Student Liaison to the Faculty, 1998-1999
- Visiting Student Committee, 1998-1999

REFERENCES

Dr. Charles A. Nelson, PhD., Richard David Scott Chair in Pediatrics, Harvard Medical School; Director of Research, Developmental Medicine. Childrens Hospital Boston, Office 621, 1 Autumn St. Boston, MA, 02115 (617) 355-0401.

Dr. Kathleen M. Thomas, PhD., Professor of Child Psychology. Institute of Child Development, University of Minnesota, 51 East River Road, Minneapolis, MN 55455, (612) 625-3389.

Dr. Barbara Yngvesson, PhD. Professor of Anthropology. Chair of the School of Social Sciences, Chair of the FPR Hampshire College Program in Culture, Brain, and Development. School of Social Sciences, Hampshire College, 893 West St. Amherst, MA 01002, (413) 559-5578.