

Curriculum Vita

July 23, 2018

Name: Philip A. Allen

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Date of Birth: 1/13/61 (Marietta, OH)

Education:

<u>Institution</u>	<u>Degree</u>	<u>Year</u>	<u>Field</u>
Duke University Medical Center Durham, NC	Post- doctoral fellowship	1987- 1989	Experimental Psychology and Aging
Ohio State University Columbus, OH	Ph.D.	1987	Psychology
Ohio State University Columbus, OH	M.A.	1984	Psychology
Ohio State University Columbus, OH	B.S.	1983	Psychology

Professional Service:

NIH grant reviewer (2001-2018)

SEP/SRG fellowship study section: 10 ZRG1 F16-L (20) (Risk, Prevention, and Health Behavior)—2014-2018

Chaired BBBP-D 02 July 22nd, 2013

Chaired BBBP-E 05 November 4th, 2010

Chaired BBBP-D MARRA 80 and 3 July 14th, 2010

Served on ZRG1 AARR F52 (social and behavior methodology) June 10-11, 2010,
February 21, 2011

APA Division 20 Program Chair (2009)

CDC SEP chair (2009)

NIH SEP (special emphasis panel) reviewer and chair (2008)
Chairperson of NIH (CSR) Study Section: Adult Psychopathology and Disorders of
Aging (APDA) (2005-2007)
Member of the NIH APDA study section (2001-2007)
American Psychological Association—Member (Divisions 3, 20, 40)
American Psychological Association—Fellow, Division 20, Division 3
Psychonomic Society—Member, Fellow
Gerontological Society of America—Member

University Service:

Faculty Senate: 2012-present
Grad Council: 2014-present
University Council: 2016-present
University Budget Committee: 2017-present
University of Akron Institutional Review Board: Chair (2003-2006)

Journal Editing/Reviewing:

Associate Editor:

Psychology and Aging
Experimental Aging Research
PLoS ONE (academic editor)

Ad hoc reviewer for:

Aging, Neuropsychology, and Cognition
Acta Psychologica
American Journal of Psychology
Archives of Scientific Psychology
Assessment
Attention, Perception & Psychophysics
Behavior Research Methods
Brain and Cognition
Brain Research
Canadian Journal of Experimental Psychology
Consciousness and Cognition
Cortex
Current Directions in Psychological Science
Developmental Psychology
Frontiers in Emotion Science
Frontiers in Integrative Neuroscience
Human Factors
Journal of Adult Development
Journal of the American Aging Association
Journal of Cognitive Psychology

Journal of Clinical and Experimental Neuropsychology
Journal of Experimental Psychology: Human Perception and Performance
Journal of Experimental Psychology: Learning, Memory, and Cognition
Journal of Gerontology: Psychological Sciences
Journal of the International Neuropsychological Society
Journal of Memory and Language
Journal of Research in Reading
Memory
Neurobiology of Aging
Neuropsychologia
Neuropsychology Review
Organizational Behavior and Human Decision Processes
Ophthalmic and Physiological Optics
Perception
Personality and Individual Differences
Psychiatry Research
Psychological Assessment
Psychological Bulletin
Psychological Medicine
Psychological Science
Psychonomic Bulletin and Review
Spatial Vision
Visual Cognition

Professional Experience:

Professor, Department of Psychology, University of Akron, Akron, OH, January 1, 2000 to the present

Professor, Department of Psychology, Cleveland State University, Cleveland, OH, September 1, 1996 to December 31, 1999.

Associate Professor, Department of Psychology, Cleveland State University, Cleveland, OH, September 1, 1992 to August 31, 1996.

Assistant Professor, Department of Psychology, Cleveland State University, Cleveland, OH, July 1, 1989 to August 1992.

Postdoctoral Research Fellow, Center for the Study of Aging and Human Development, Duke University Medical Center, Durham, NC, July 1987 to June 1989.

Refereed Publications:

Allen, P.A., Hughes, M.L., Houston, J.R., Jardin, E., Mallik, P., McLennan, C., Delahanty, D.L. (in press). Are there age differences in consolidated incidental episodic memory? *Experimental Aging Research*.

- Page, K., Hayslip, B., Wadsworth, Allen, P.A. (in press). Development of a multidimensional measure to examine fear of dementia. *International Journal of Aging & Human Development*.
- Houston, J.R., Hughes, M.L., Lien, M.-L., Martin, B.A., Loth, F., Luciano, M., Vorster, S., Allen, P.A. (2018). An electrophysiological study of cognitive and emotional processing in pre-surgery Type I Chiari Malformation. *Cerebellum*, *17*: 404-418.
<https://doi.org/10.1007/s12311-018-0923-8>
- Allen, P.A., Delahanty, D., Kaut, K.P., Li, X., Garcia, M., Houston, J.R., Tokar, D.M., Loth, F., Maleki, J., Vorster, S., Luciano, M.G. (2018). Chiari 1000 Registry Project: Assessment of Surgical Outcome on Self-Focused Attention, Pain and Delayed Recall. *Psychological Medicine*, *48*, 1634-1643. doi.org/10.1017/S0033291717003117.
- Houston, J.R., Pollock, J.W., Lien, M.-C., & Allen, P.A. (2018). Emotional arousal deficit or emotional regulation bias? An electrophysiological study of age-related differences in emotion perception. *Experimental Aging Research*, *44*, 187-205. DOI: 10.1080/0361073X.2018.1449585
- Eppelheimer, M.S., Houston, J.R., Bapuraj, J.R., Labuda, R., Loth, D.M., Braun, A.M., Allen, N.J., Pahlavian, S.H., Biswas, D., Urbizu, A., Martin, B.A., Maher, C.O., Allen, P.A., Loth, F. (2018). A retrospective morphometric analysis of adult female Chiari type I patients with commonly reported and related conditions, *Frontiers in Neuroanatomy*, *12*:2. doi: 10.3389/fnana.2018.00002.
- Houston, J.R., Eppelheimer, M.S., Pahlavian, S.H., Biswas, D., Urbizu, A., Martin, B.A., Bapuraj, J.R., Luciano, M.G., Allen, P.A., & Loth, F. (2018). A Morphometric Assessment of type 1 Chiari Malformation above the McRae line: A Retrospective Case-Control Study in 302 Adult Female Subjects. *Journal of Neuroradiology*, *45*, 23-31. doi.org/10.1016/j.neurad.2017.06.006
- Khalsa, S.S., Geh, N., Martin, B.A., Allen, P.A., Strahle, J., Loth, F., Habtzghi, D., Urbizu, A., McQuaide, D., Garton, H.J.L., Muraszko, K.M., Maher, C.O. (2018). Morphometric and volumetric comparison of 102 children with symptomatic and asymptomatic Chiari malformation type I. *Journal of Neurosurgery: Pediatrics*, *21*, 65-71. DOI: 10.3171/2017.8.PEDS17345
- Li, X., Allen, P.A., Lien, M.-C., & Yamamoto, N. (2017). Practice makes it better: A psychophysical study of visual perceptual learning and its transfer effects on aging. *Psychology and Aging*, *32*, 16-27.
- Allen, P.A., Lien, M.C., & Jardin, E. (2017). Age-related emotional bias in processing two emotionally valenced tasks. *Psychological Research*, *81*, 289-308.
- Houston, J.R., Bennett, I.J., Allen, P.A., & Madden, D.J. (2016). Visual acuity does not moderate effect sizes of higher-level cognitive tasks. *Experimental Aging Research*, *42*, 221-263.

- Levant, R.E., Allen, P.A., & Lien, M.-C. (2014). Alexithymia in men: How and when does the deficit in the processing of emotions occur? *Psychology of Men and Masculinity*, *15*, 324-334.
- Lien, M.-C., Allen, P.A., & Martin, N. (2014). Processing visual words with numbers: Electrophysiological evidence for semantic activation. *Psychonomic Bulletin and Review*, *21*, 1056-1066.
- Allen, P.A., Lien, M.-C., Ruthruff, E., & Voss, A. (2014). Multi-Tasking and aging: Do older adults benefit from performing a highly practiced task? *Experimental Aging Research*, *40*, 280-307.
- Allen, P.A., Houston, J.R., Pollock, J.W., Buzzelli, C., Li, X., Harrington, A.C., Martin, B.A., Loth, F., Lien, M.-C., Maleki, J., & Luciano, M.G. (2014). Task-specific and general cognitive effects in Chiari malformation Type I. *PLoS ONE*, *9*(4), e94844.
- Martin, B.A., & Allen, P.A. (2013). Where do we stand on the relationship between tau biomarkers and mild cognitive impairment?: an editorial on Amlien et al. (2013). *Quantitative Imaging in Medicine and Surgery*, *3*(4), 189-191.
- Grabbe, J.W., & Allen, P.A. (2013). Age-related sparing of parafoveal lexical processing. *Experimental Aging Research*, *39*, 419-444.
- Pollock, J.W., Khoja, N., Kaut, K.P., Lien, M.-C., & Allen, P.A. (2012). Electrophysiological evidence for age-related sparing and decrements in emotion perception and attention. *Frontiers in Integrative Neuroscience*, *6* (60), 1-14.
- Grabbe, J.W., & Allen, P.A. (2012). Cross-task compatibility and age-related dual-task performance. *Experimental Aging Research*, *38*, 469-487.
- Lien, M.-C., Allen, P.A., Crawford, C. (2012). Electrophysiological evidence of different loci for case mixing and word frequency effects in visual word recognition. *Psychonomic Bulletin and Review*, *19*, 677-684.
- Allen, P.A., Lien, M.-C., & Ruthruff, E. (2011). Cognition and emotion: Neuroscience and behavioral perspectives. *Journal of Cognitive Psychology*, *23*, 667-668.
- Allen, P.A., Kaut, K.P., Baena, E., Lien, M.-C., & Ruthruff, E. (2011). Individual differences in positive affect moderate age-related declines in episodic long-term memory. *Journal of Cognitive Psychology*, *23*, 768-779.
- Shaw, K., Lien, M.-C., Ruthruff, E., & Allen, P.A. (2011). electrophysiological evidence of emotion perception without central attention. *Journal of Cognitive Psychology*, *23*, 695-708.

- Allen, P.A., Bucur, B., Grabbe, J., Work, T., & Madden, D.J. (2011). Influence of encoding difficulty, word frequency and phonological regularity on age differences in word naming. *Experimental Aging Research*, *37*, 261-292.
- Baena, E., Allen, P.A., Kaut, K.P., & Hall, R.J. (2010). On age differences in prefrontal function: The importance of emotional/cognitive integration. *Neuropsychologia*, *48*, 319-333.
- Tomasik, D., Ruthruff, E., Allen, P.A., & Lien, M.-C. (2009). Non-automatic emotion perception in a dual-task situation. *Psychonomic Bulletin and Review*, *16*, 282-288.
- Allen, P.A., Smith, A.F., Lien, M.C., Kaut, K.P. Canfield, A. (2009). A multi-stream model of visual word recognition. *Attention, Perception, & Psychophysics*, *71*, 281-296.
- Allen, P.A., Ruthruff, E., Elicker, J.D., Lien, M.-C. (2009). Multi-session dual-task PRP practice benefits older and younger adults equally. *Experimental Aging Research*, *35*, 369-399.
- Sweitzer, M.A., Allen, P.A., Kaut, K.P. (2008). Relation of individual differences in impulsivity to non-clinical emotional decision making. *Journal of the International Neuropsychological Society*, *14*, 878-882.
- Lien, M.C., Ruthruff, E., Cornett, L., Goodin, Z., & Allen, P.A. (2008). On the non-automaticity of word processing: Electrophysiological evidence that word processing requires central attention. *Journal of Experimental Psychology: Human Perception and Performance*, *34*, 751-773.
- Allen, P.A., Wallace, B., Grabbe, J., McCarthy, A., & Bush, A.H. (2008). The early bird does not get the worm: Time-of-day effects on college students' basic cognitive processing. *American Journal of Psychology*, *121*, 551-564.
- Ruthruff, E., Allen P.A., Lien, M.-C., Grabbe, J. (2008). Visual word recognition without central attention: Evidence for greater automaticity for greater reading ability. *Psychonomic Bulletin and Review*, *15*, 337-343.
- Arnaud, L., Lemaire, P., Allen, P., Bernard, F.M. (2008). Strategic aspects of young, healthy older adults, and Alzheimer's patients' arithmetic performance. *Cortex*, *44*, 119-130.
- Bush, A.H., Allen, P.A., Kaut, K.P., & Ogrocki, P.K. (2007). Influence of mild cognitive impairment on visual word recognition. *Aging, Neuropsychology, and Cognition*, *14*, 329-352.
- Lien, M.-C., Allen, P.A., Ruthruff, E., Grabbe, J., McCann, R.S., & Remington, R.W. (2006). Visual word recognition without central attention: Evidence for greater automaticity with advancing age. *Psychology and Aging*, *21*, 431-447.

- Bucur, B., Madden, D.J., & Allen, P.A. (2005). Age-Related Differences in the Processing of Redundant Visual Dimensions. *Psychology and Aging, 20*, 435-446.
- Bucur, B., Allen, P.A., Sanders, R.E., Ruthruff, E., & Murphy, M.D. (2005). Age differences in dividing attention between bimodal dimensions: Investigating coactive processing in older adults. *Journal of Gerontology: Psychological Sciences, 60B*, P279-P282.
- Allen, P.A., Smith, A.F., Lien, M.-C., Grabbe, J., & Murphy, M.D. (2005). Evidence for an activation locus of the word frequency effect in lexical decision. *Journal of Experimental Psychology: Human Perception and Performance, 31*, 713-721.
- Allen, P.A., Kaut, K.P., Lord, R.G., Hall, R.J., Bowie, T., & Grabbe, J. (2005). An emotional mediation theory of differential age effects in episodic and semantic memory. *Experimental Aging Research, 31*, 355-391.
- Allen, P.A., Bucur, B., Lemaire, P., Duverne, S., Ogrocki, P.K., & Sanders, R.E. (2005). Influence of probable Alzheimer's disease on multiplication production and verification. *Aging, Neuropsychology, and Cognition, 12*, 1-31.
- Whiting, W.L., Madden, D.J., Pierce, T.W., & Allen, P.A. (2005). Searching from the top down: Aging and attentional guidance during singleton detection. *Quarterly Journal of Experimental Psychology A, 58*, 72-97.
- Allen, P.A., Murphy, M.D., Kaufman, M., Groth, K.E., & Begovic, A. (2004). Age Differences in Central (Semantic) and Peripheral Processing: The importance of considering both response times and errors. *Journal of Gerontology: Psychological Sciences, 59B*, P210-P219.
- Allen, P.A., Smith, A.F., Groth, K.E., Pickle, J., Grabbe, J., & Madden, D.J. (2002). Differential age effects for case and hue mixing in visual word recognition. *Psychology and Aging, 17*, 622-635.
- Allen, P.A., Lien, M.-C., Murphy, M.D., Sanders, R.E., Judge, K., & McCann, R. (2002). Age differences in overlapping-task performance: Evidence for efficient parallel processing in older adults. *Psychology and Aging, 17*, 505-519.
- Lien, M.-C., Proctor, R.W., & Allen, P.A. (2002). Ideomotor compatibility in the psychological refractory period: Twenty-nine years of oversimplification. *Journal of Experimental Psychology: Human Perception and Performance, 28*, 396-409.
- Allen, P.A., Sliwinski, M., & Bowie, T. (2002). Differential age effects in semantic and episodic memory, Part II: Slope and intercept analyses. *Experimental Aging Research, 28*, 111-142.
- Allen, P.A., Sliwinski, M., Bowie, T., & Madden, D.J. (2002). Differential age effects in semantic and episodic memory. *Journal of Gerontology: Psychological Sciences, 57B*, P173-P186.

- Allen, P.A., Hall, R.J., Druley, J.A., Smith, A.F., Sanders, R.E., & Murphy, M.D. (2001). How shared are age-related influences on cognitive and noncognitive variables? *Psychology and Aging, 16*, 532-549.
- Allen, P.A., Stadlander, L.M., Groth, K.E., Pickle, J., & Madden, D.J. (2000). Adult age invariance in sentence unitization processing. *Aging, Neuropsychology, and Cognition, 7*, 54-67.
- Riske, M.L., Wallace, B., & Allen, P.A. (2000). Imaging ability and eyewitness accuracy. *Journal of Mental Imagery, 24*, 137-148.
- Groth, K.E., & Allen, P.A. (2000). Visual attention and aging. *Frontiers in Bioscience, 4*, d284-297.
- Madden, D.J., Gottlob, L.R., & Allen, P.A. (1999). Adult age differences in visual search accuracy: Attentional guidance under data-limited conditions. *Psychology and Aging, 14*, 683-694.
- Allen, P.A., Kaufman, M., Smith, A.F., & Propper, R. (1998). A molar entropy model of age differences in spatial memory. *Psychology and Aging, 13*, 501-518.
- Allen, P.A., Kaufman, M., Smith, A.F., & Propper, R. (1998). Age differences in entropy: Primary versus secondary memory. *Experimental Aging Research, 24*, 307-336.
- Allen, P.A., Smith, A.F., Vires-Collins, H., & Sperry, S. (1998). The psychological refractory period: Evidence for age differences in attentional time-sharing. *Psychology and Aging, 13*, 218-229.
- Allen, P.A., Smith, A.F., Jerge, K.A., & Vires-Collins, H. (1997). Age differences in mental multiplication: The effect of task type and exposure duration. *Journal of Gerontology: Psychological Sciences, 52*, P81-P90.
- Allen, P.A., Smith, A.F., Lien, M.C., Weber, T.A., & Madden, D.J. (1997). Word frequency effects at brief exposure durations: Comment on Paap and Johansen (1994). *Journal of Experimental Psychology: Human Perception and Performance, 23*, 1792-1797.
- Allen, P.A., Mitchell, D., Madden, D.J., & Goldstein, B. (1997). Adult age differences in long-term semantic priming. *Experimental Aging Research, 23*, 107-135.
- Madden, D.J., Pierce, T.W., & Allen, P.A. (1996). Adult Age differences in the use of distractor homogeneity during visual search. *Psychology and Aging, 11*, 454-474.
- Wallace, B., Allen, P.A., & Propper, R.E. (1996). Hypnotic susceptibility, imaging ability, and anagram solving activity. *International Journal of Clinical and Experimental Hypnosis, 44*, 324-337.

- Allen, P.A., Wallace, B., & Weber, T.A., (1995). Influence of case type and exposure duration on visual word recognition. *Journal of Experimental Psychology: Human Perception and Performance*, 21, 914-934.
- Madden, D.J., & Allen, P.A. (1995). Aging and the speed/accuracy relation in visual search: Evidence for an accumulator model. *Optometry and Vision Science*, 72, 210-216.
- Allen, P.A., Weber, T.A., & Madden, D.J. (1994). Adult Age differences in attention: Filtering or Selection? *Journal of Gerontology: Psychological Sciences*, 49, P312-P222.
- Allen, P.A., Wallace, B., & LoSchiavo, F. (1994). Influence of imaging ability on word transformation. *Memory & Cognition*, 22, 565-574.
- Allen, P.A., Patterson, M.B, Propper, R. (1994). Influence of letter size on age differences in letter matching. *Journal of Gerontology: Psychological Sciences*, 49, P24-28.
- Wallace, B., Allen, P., & Weber, T. (1994). Hypnotic susceptibility, imaging ability, and the detection of embedded words within letters. *International Journal of Clinical and Experimental Hypnosis*, 42, 20-38.
- Madden, D.J., Pierce, T.W., & Allen, P.A. (1993). Age-related slowing and the time course of semantic priming in visual word identification. *Psychology and Aging*, 8, 490-507.
- Allen, P.A., Madden, D.J., Weber, T.A., & Groth, K.E. (1993). The influence of age and processing stage on visual word recognition. *Psychology and Aging*, 8, 274-282.
- Allen, P.A., & Groth, K, Weber, T., & Madden, D. (1993). Influence of response selection and noise similarity on age differences in the redundancy gain. *Journal of Gerontology: Psychological Sciences*, 48, P189-198.
- Allen, P.A., Weber, T.A., & May, N. (1993). Age differences in letter and color matching: Selective attention, processing resources or internal noise? *Journal of Gerontology: Psychological Sciences*, 48, P69-77.
- Madden, D.J., Pierce, T.W., & Allen, P.A. (1992). Adult age differences in attentional allocation during memory search. *Psychology and Aging*, 7, 594-601.
- Allen, P.A., Ashcraft, M.H., & Weber, T.A. (1992). On mental multiplication and age. *Psychology and Aging*, 7, 536-545.
- Madden, D.J., Nebes, R.D., & Allen, P.A. (1992). Cognitive slowing in Alzheimer's disease as a function of task type and response type. *Developmental Neuropsychology*, 8, 459-471.
- Allen, P.A., McNeal, M., & Kvak, D. (1992). Perhaps the lexicon is coded as a function of word frequency. *Journal of Memory and Language*, 31, 826-844.

- Allen, P.A., Namazi, K., Patterson, M., Crozier, L., & Groth, K. (1992). Impact of adult age and Alzheimer's disease on levels of neural noise in letter matching. *Journal of Gerontology: Psychological Sciences*, *47*, P344-349.
- Allen, P.A., Madden, D.J., Weber, T., & Crozier, L.C. (1992). Age differences in working memory: Organization or internal noise? *Journal of Gerontology: Psychological Sciences*, *47*, P281-288.
- Allen, P.A., Madden, D.J., Groth, K., & Crozier, L.C. (1992). Impact of age, redundancy, and perceptual noise on visual search. *Journal of Gerontology: Psychological Sciences*, *47*, P69-74.
- Allen, P.A., & Crozier, L.C. (1992). Age and ideal chunk size. *Journal of Gerontology: Psychological Sciences*, *47*, P47-51.
- Allen, P.A., & Emerson, P.L. (1991). Holism revisited: Evidence for independent word-level and letter-level processors during word recognition. *Journal of Experimental Psychology: Human Perception and Performance*, *17*, 489-510.
- Allen, P.A., Madden, D.J., & Crozier, L.C. (1991). Age differences in letter-level and word-level processing during word recognition. *Psychology and Aging*, *6*, 261-271.
- Allen, P.A. (1991). On age differences in processing variability and scanning speed. *Journal of Gerontology: Psychological Sciences*, *46*, P191-201.
- Allen, P.A., Wallace, B., & Waag, E. (1991). Effect of imagery on letter-level and word-level processing. *Perception & Psychophysics*, *49*, 295-300.
- Madden, D.J., & Allen, P.A. (1991). Adult age differences in the rate of information extraction during visual search. *Journal of Gerontology: Psychological Sciences*, *46*, P124-126.
- Allen, P.A., & Madden, D.J. (1990). Evidence for a parallel input serial analysis (PISA) model of word processing. *Journal of Experimental Psychology: Human Perception and Performance*, *16*, 48-64.
- Allen, P.A. (1990). Influence of processing variability on adult age differences in memory distribution of order information. *Cognitive Development*, *5*, 177-192.
- Allen, P.A., & Coyne, A.C. (1989). Are there age differences in chunking? *Journal of Gerontology: Psychological Sciences*, *44*, P181-183.
- Allen, P.A., & Madden, D.J. (1989). Adult age differences in the effects of word frequency during visual letter identification. *Cognitive Development*, *4*, 283-294.
- Johnson, N.F., Allen, P.A., & Strand, T.L. (1989). On the role of word frequency in the detection of component letters. *Memory & Cognition*, *17*, 474-482.

- Madden, D.J., & Allen, P.A. (1989). Amount and duration of attentional demands during visual search. *Perception & Psychophysics*, *45*, 577-585.
- Madden, D.J., Blumenthal, J.A., Allen, P.A., & Emery, C. (1989). Improving aerobic capacity in healthy older adults does not necessarily lead to improved cognitive performance. *Psychology and Aging*, *4*, 307-320.
- Allen, P.A., & Coyne, A.C. (1988a). Age differences in primary organization or processing variability? Part I: Age and primary organization. *Experimental Aging Research*, *14*, 143-149.
- Allen, P.A., & Coyne, A.C. (1988b). Age differences in primary organization or processing variability? Part II: Evidence for processing variability. *Experimental Aging Research*, *14*, 151-157.
- Krueger, L.E., & Allen, P.A. (1987). Same-different judgments of foveal and parafoveal letter pairs by older adults. *Perception & Psychophysics*, *41*, 329-334.
- Coyne, A.C. Allen, P.A., & Wickens, D.D. (1986). Influence of adult age on primary and secondary memory search. *Psychology and Aging*, *1*, 187-194.

Edited books:

- Allen, P.A., & Bashore, T.R. (Eds.) (1995). *Age differences in word and language processing*. North-Holland: Amsterdam.

Book chapters/Encyclopedia Entries/Cleveland Clinic Press:

- Madden, D.J., & Allen, P.A. (2016). History of cognitive slowing theory and research. In N. A. Pachana (Ed.), *Encyclopedia of Gerontology*: DOI 10.1007/978-981-287-080-3_96-1, Springer Science+Business Media Singapore.
- Pollock, J., & Allen, P.A. (2015). Information processing theory. In Whitbourne, S.K. (Ed.), *Encyclopedia of Adulthood and Aging*, Wiley.
- Luciano, M., Martin, B., Allen, P., & Loth, F. (2014). The squeeze of Chiari malformation: Clinicians and scientists collaborate to understand it cause and effects. *Pediatric Neuroscience Pathways*.
- Allen, P., Kaut, K., & Lord, R. (2008). Emotion and episodic memory. In E. Dere, A. Easton, L. Nadel, and J. Huston (Eds.), *Handbook of behavioral neuroscience: Episodic memory research*. Elsevier Science, pp 115-132.
- Lemaire, P., Arnaud, L., Allen, P., & Michel, B.F. (2007). Variations stratégiques et maladie d'Alzheimer (Strategic variations in Alzheimer's disease), pp. 77-89. In Michel, B.F.,

Petersen, Verdureau, F. *Mild Cognitive Impairment. Du vieillissement cérébral à la démence*. Marseille: Solal.

Allen, P.A., Ruthruff, E., & Lien, M.-C. (2007). Attention. In J. Birren (Ed.), *Encyclopedia of gerontology (2nd Edition)*. (pp. 120-129). Academic press: San Diego.

Allen, P.A., Bucur, B., & Murphy, M.D. (2006). Information processing theory. In R. Schulz (Ed.), *The Springer encyclopedia of aging*. (pp. 588-591). Springer: New York.

Allen, P.A., Murphy, M.D., & Sanders, R.E. (2002). Reaction time and cognitive aging. In D.J. Ekerdt (Ed.), *The Macmillan encyclopedia of aging*. Macmillan: New York.

Madden, D.J., & Allen, P.A. (1996). Attention. In J. Birren (Ed.), *Encyclopedia of gerontology*. Academic Press: San Diego.

Allen, P.A., & Madden, D.J., & Slane, S. (1995). Visual word encoding and the effect of adult age and word frequency. In P.A. Allen and T.R. Bashore (Eds.), *Age differences in word and language processing* (pp. 30-71). North-Holland: Amsterdam.

Published Reviews/Editorials:

Allen, P.A. (2001) All in the mind or in the body. Review of Humphrey, N. (2000). How to solve the mind-body problem. *Trends in Cognitive Sciences*, 5, 42-44.

Allen, P.A. (1997). Fortelling the future of the mind. *Contemporary Psychology*. Review of Solso, R.L., & Massaro, D.W. (1995). *The science of the mind: 2001 and beyond*. New York: Oxford.

Presented Papers:

Hughes, M.L., Houston, J.R., Lien, M.-C., Vorster, S., Luciano, M.G., Loth, F., Allen, P.A. Investigating Neurological Correlates of Chiari Malformation Type I Symptomatology: A Diffusion Tensor Imaging Study of Cognition and Pain. Paper presented at the 58th annual meeting of the Psychonomic Society, Vancouver, B.C., November 10, 2017.

Allen, Philip A., Houston, J., Hughes, M., Loth, F., Vorster, S., & Luciano, M.G. Proposal of a “Cerebellar” Cognitive Test Battery—Adult Perspective. 2nd Annual CSF Disorders Symposium: Chiari and Cognition—Fiction or Reality? Brown University Medical Center. June 17, 2017, Providence, RI.

Allen, Philip A., Houston, J., Loth, F., Vorster, S., & Luciano, M.G. Observation of Cognitive Function in Adult Chiari Populations. CSF Research Colloquium, September 24, 2016, San Diego, CA.

Houston, J.R., Allen, P.A., Lien, M.-C., Loth, F., Vorster, S., & Luciano, M.H. Chiari malformation and hyper-vigilance: An EEG study. Paper presented at the 57th annual meeting of the Psychonomic Society, Boston, MA, November 19, 2016

Mallik, P.R., Allen, P.A., & Lien, M.-C. An electrophysiological study of neural noise for spatial memory in aging. Paper presented at the 57th annual meeting of the Psychonomic Society, Boston, MA, November 18, 2016.

Jardin, E., Allen, P.A., Levant, R.F., Lien, M.-C., McCurdy, E., Villalba, A., Houston, J.R. Alexithymia in men: An electrophysiological investigation of emotional processing. Paper presented at the 57th annual meeting of the Psychonomic Society, Boston, MA, November 18, 2016.

Allen, P.A., Houston, J.H., Loth, F., Vorster, S., Luciano, M. Observation of cognitive function in adult Chiari populations. Paper presented at the CSF Research Colloquium, San Diego, CA, September 24, 2016.

Houston, J.R., Pollock, J.W., Lien, M.-C., & Allen, P.A. Processing emotional faces: An ERP study of age-related differences in affective influences on attention. Paper presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL, November 21, 2015.

Jardin, E., Lien, M.-C., & Allen, P.A. Age-related differences in attentional capture by affective pictures: An event-related potential study. Paper presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL, November 20, 2015.

Li, X., Yamamoto, N., Allen, P.A., & Kaut, K.P. Age differences in perceptual learning and transfer in orientation discrimination. Paper presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL, November 20, 2015.

Pedersen, L., Lien, M.-C., & Allen, P.A. Locus of case mixing in visual word recognition: What do priming effects tell us? Paper presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL, November 20, 2015.

Sokoloff, E., Burros, A., Kunigel, A., Lien, M.-C., & Allen, P.A. Visual Word Recognition in a Semantic Categorization Task: Holistic Processing or Analytical Processing? Paper presented at the 55th annual meeting of the Psychonomic Society, Long Beach, CA, November 22, 2014.

Burros, A., Lien, M.-C., Ruthruff, E., & Allen, P.A. Age-Related Changes in Face Memory: Are Older Adults Less Affected by Emotion? Paper presented at the 55th annual meeting of the Psychonomic Society, Long Beach, CA, November 22, 2014.

Herdener, N., Burros, A., Lien, M.-C., Ruthruff, E., & Allen, P.A. Memory for emotional faces: Are angry faces more memorable than happy faces? Paper presented at the 54th annual meeting of the Psychonomic Society, Toronto, CA, November 14th, 2013.

Martin, N.R., Lien, M.-C., & Allen, P.A. R3ADING WORD5 WITH NUMB3R5. Paper presented at the 54th annual meeting of the Psychonomic Society, Toronto, CA, November 14th, 2013.

Allen, P.A., Lien, M.-C., Buzzelli, C., & Cooper-Shumway, H. Aging, congruence effects, and automaticity. Paper presented at the 54th annual meeting of the Psychonomic Society, Toronto, CA, November 15th, 2013.

Pollock, J.W., Khoja, N., Lien, M.-C., & Allen, P.A. Electrophysiological evidence for differential age differences in emotion perception. Paper presented at the 53rd annual meeting of the Psychonomic Society, Minneapolis, Minnesota, November 17, 2012.

Allen, P.A., Lien, M.-C., & Crawford, C. Electrophysiological evidence for different loci for word frequency and case mixing in visual word recognition. Paper presented at the 52nd annual meeting of the Psychonomic Society, Seattle, WA, November 5, 2011.

Levant, R.F., Allen, P.A., Shook, J.M., Rogers, B.K., & Lien, M.-C. Semantic priming and alexithymia: An experimental investigation. Paper presented at the 118th Convention of the American Psychological Association, August 12, 2010.

Allen, P. A., Lien, M.-C., & Ruthruff, E. Influence of adult age and training on dual-task crosswalk performance. Paper presented at the 50th annual meeting of the Psychonomic Society, Boston, MA, November 20, 2009.

Shaw, K., Lien, M.-C., Ruthruff, E., & Allen, P.A. Assessing automatic emotion perception using event-related brain potentials. Paper presented at the 50th meeting of the Psychonomic Society, Boston, MA, November 21, 2009.

Pritchard, C.C.J., & Allen, P.A. Impulsivity and binge eating: A causal model. Paper presented at the 117th Convention of the American Psychological Association, August, 9th, 2009.

Tomasic, D., Ruthruff, E., Allen, P., & Lien, M.-C. Non-automatic emotion perception in a dual-task condition. Paper presented at the 49th annual meeting of the Psychonomic Society, Chicago, IL, November 14th, 2008.

Hulse, S., Allen, P., Ruthruff, E., & Lien, M.-C. Word frequency and the P3: Evidence that visual word processing requires central attention. Paper presented at the 48th annual meeting of the Psychonomic Society, Long Beach, CA, November 17th, 2007.

Allen, P., Ruthruff, E., & Lien, M.-C. Individual differences in reading ability and dual-task performance. Paper presented at the 47th annual meeting of the Psychonomic Society, Houston, Texas, November 19th, 2006.

Bucur, B., Madden, D.J., Spaniol, J., Provenzale, J.M., White, L.E., Cabeza, R., Allen, P.A., & Huettel, S.A. White matter integrity as a mediator between age and memory retrieval:

Implications for disconnection theories of cognitive aging. Paper presented at the Cognitive Aging Conference, Atlanta, GA, April 21, 2006.

Begovic, A., Sterns, H., Snell, A., Murphy, M., & Allen, P. (November, 2005) Older adults' residential moves, coping, and adaptation. Paper presented at the 58th Annual Scientific Meeting of The Gerontological Society of America, Orlando, FL.

Allen, P.A., Bucur, B., Grabbe., J., & Madden, D.J. Influence of aging and Alzheimer's disease on word naming. Paper presented at the 45th annual meeting of the Psychonomic Society, Minneapolis, MN, November 20, 2004.

Bucur, B., Madden, D.J., & Allen, P.A. Age-related changes in the processing of redundant visual dimensions. Paper presented at the 45th annual meeting of the Psychonomic Society, Minneapolis, MN, November 20, 2004.

Allen, P.A., Lien, M-C., Ruthruff, E., Grabbe, J., McCann, R., & Remington, R. Age differences in the attentional demands of lexical access. Paper presented at the 44th annual meeting of the Psychonomic Society, Vancouver, Canada, November, 8, 2003.

Lien, M-C., McCann, R., & Allen, P.A. Comparing Simon to Stroop: Which one is automatic? Paper presented at the 43rd annual meeting of the Psychonomic Society, Kansas City, MO, November, 2002.

Bucur, B., Allen, P., Ruthruff, R., & Lien, M-C. Age Differences in Visual Search: Separate Response Channels or Coactivation? Paper presented at the 2002 meeting of the American Psychological Association, August, 2002.

Allen, P.A., Kaut, K.P., Lord, R.G., Hall, R.J., Bowie, T., & Grabbe, J. Emotional mediation or modulation of age differences in episodic memory? Paper presented at the Cognitive Aging Conference, Atlanta, GA, April 19, 2002.

Lien, M-C., Proctor, R.W., & Allen, P.A. Ideomotor compatibility in the psychological refractory period effect. Paper presented at the 42nd annual meeting of the Psychonomic Society, Orlando, FL, November, 2001.

Allen, P.A., Murphy, M.D., Sanders, R.E., and Lien, M-C. The effect of stimulus familiarity on age differences in the PRP effect. Paper presented at the 41st annual meeting of the Psychonomic Society, New Orleans, LA, November, 2000.

Allen, P.A., Kaufman, M., Groth, K.E., & Begovic-Lapic, A. An Entropy-Speed Model of Age Differences in Lexical Decisions. Paper presented at the Cognitive Aging Conference, Atlanta, GA, April, 2000.

Kaufman, M., & Allen, P.A. Statistical mechanics model of the speed-accuracy tradeoff in spatial and lexical memory. Paper presented at the American Physical Society Conference, Minneapolis, MN, March, 2000.

Allen, P.A., Bowie, T., & Slane, S. Age differences in semantic versus episodic memory. Paper presented at the Cognitive Aging Conference, Atlanta, GA, April 24th, 1998.

Allen, P.A., Lien, M., Pickle, J. A multi-stream model of visual word recognition. Paper presented at the 38th Annual meeting of the Psychonomic Society, Philadelphia, PA, November, 22, 1997.

Allen P.A., Vires-Collins, H., & Weber, T.A. Word frequency effects at brief exposure durations. Paper presented at the 36th Annual meeting of the Psychonomic Society, Los Angeles, CA., November 10, 1995.

Allen, P.A., Wallace, B., Sperry, S., & Vires-Collins, H. Influence of case and block type on visual word recognition. Paper presented at the 35th Annual meeting of the Psychonomic Society, St. Louis, MO., November 12, 1994.

Wallace, B., Allen, P., & Propper, R. Individual differences in the solutions to anagrams. Paper presented at the 35th Annual meeting of the Psychonomic Society, St. Louis, MO, November 11, 1994.

Allen, P.A., & Propper, R. Age differences in perceptual discriminial dispersion. Paper presented at the 5th Cognitive Aging Conference, Atlanta, GA, April 7-10, 1994.

Allen, P.A., & Betts, L. Age differences in word encoding. Paper presented at the 34th Annual meeting of the Psychonomic Society, Washington, D.C., November 6, 1993.

Allen, P.A., & Weber, T.A. Evidence for a three-way horse race during word recognition. Paper presented at the 33rd Annual meeting of the Psychonomic Society, St. Louis, MO, November 14, 1992.

Allen, P.A., Weber, T.A., McDaniel, P., & May, N. Age differences in letter matching: Internal noise or selective attention? Paper presented at the 4th Cognitive Aging Conference, Atlanta, GA, April 12, 1992.

Madden, D.J., Nebes, R.D., & Allen, P.A. Cognitive slowing Alzheimer's disease as a function of task type and response type. Paper presented at the 4th Cognitive Aging Conference, Atlanta, GA, April 13, 1992.

Allen, P.A., & Wallace, B. Impact of word shape on word recognition. Paper presented at the 32nd Annual meeting of the Psychonomic Society, San Francisco, CA, November, 24, 1991.

Allen, P.A. Perhaps the lexicon is coded as a function of word frequency. Paper presented at the 31st Annual meeting of the Psychonomic Society, New Orleans, LA, November 17, 1990.

Allen, P.A., & Crozier, L.C. Do older adults process words in the same manner as young adults? Paper presented at the third Cognitive Aging Conference, Atlanta, GA, March 29, 1990.

Allen, P.A. The impact of word and letter frequency on letter detection. Paper presented at the 61st Annual Meeting of the Midwestern Psychological Association, Chicago, IL, May 4, 1989.

Johnson, N.F., Allen, P.A., & Strand, T.L. The effect of word frequency on letter detection. Paper presented at the 60th Annual Meeting of the Midwestern Psychological Association, Chicago, IL, April 30, 1988.

Allen, P.A. Adult age differences in Rechecking. Paper presented at the Second Cognitive Aging Conference, Atlanta, GA, April, 1988.

Allen, P.A. Age differences in processing variability. Paper presented at the 40th Annual Scientific Meeting of the Gerontological Society of America, Washington D.C., November 19, 1987.

Allen, P.A., & Coyne, A.C. Are there really qualitative age differences in memory organization? Paper presented at the first Cognitive Aging Conference, Atlanta, GA, May, 1987.

Allen, P.A., & Coyne, A.C. Evidence against the organizational version of the production deficiency hypothesis. Paper presented at the 11th Annual Meeting of the Ohio Conference on Aging, Akron, OH, April, 1987.

Allen, P.A. Age differences in memory and internal noise. Paper presented at the 10th Annual Meeting of the Ohio Conference on Aging, Columbus, OH, April, 1986.

Coyne, A.C., & Allen, P.A. Adult age and the bypass of memory search. Paper presented at the 38th Annual Scientific Meeting of the Gerontological Society of America, New Orleans, LA, November 25, 1985.

Allen, P.A. An examination of adult age differences in secondary memory search, recall and recognition. Paper presented at the 9th Annual Meeting of the Ohio Conference on Aging, Columbus, OH, April 1985.

Graduate Advising:

Doctoral Dissertations:

University of Akron:

Xuan Li (2017)
James Houston (2016)
Joshua Pollock (2014)

Alaina Phillips (2011)
Jeremy Grabbe (2007)
Aryn Harrison Bush (2006)
Barbara Bucur (2004) (co-chair)

Master's Theses:

University of Akron:

Michelle Hughes (2018)
Peter Mallik (2016)
Xuan Li (2014)
James Houston (2013)
Christopher Buzzelli (2012)
Joshua Pollock (2011)
Jeremy Grabbe (2004)
Aryn Harrison Bush (2003)

Cleveland State University:

Elliott Jardin (2015)
David Wims (1999)
Mei-Ching Lien (1997)
Heli Vires-Collins (1997)
Susan Sperry (1996)
Katherine Jerge (1995)
Michael Seese (1994)
Cheryl Fischer (1993)
Timothy Weber (1992)
Karen Groth (1991)
Loretta Crozier (1990)

Grants:

Principal Investigator: Non-invasive therapies for the treatment of chronic pain in Chiari malformation. Allen (PI), Conquer Chiari Foundation: 5/2016-8/2017. Total costs: \$129,974.

Principal Investigator: Chiari 1000 Project Manager. Allen (PI), Conquer Chiari Foundation: 4/2015-4/2019. Total costs: \$257,426.

Principal Investigator: Biomarkers of surgical success in females with Chiari Malformation Type I. Allen (PI), Delahanty, Vorster, Loth, & Martin, Conquer Chiari Foundation: 6/2015-8/2017. Total costs: \$223,973.

Co-Investigator: The developmental and psychoeducational impact of Chiari malformation. Kaut (PI) and Allen, Conquer Chiari Foundation: 6/2013-6/2015. Total costs: \$52,920.

Co-Investigator: A Chiari MR image database. Loth, Elias, Martin, Allen, Conquer Chiari Foundation: 5/2014-11/2017. Total costs: \$58,764.

Co-Principal Investigator: Brain damage in Chiari I malformation. Loth (PI), Allen, and Martin, Conquer Chiari Foundation: February 2013-January 2016. Total costs: 142,177.

Co-Principal Investigator: Interactive learning to stimulate the brain's visual center and to enhance memory retention. Yun (Principal Investigator), Allen, and Xiao, National Science Foundation, January 2012-December 2013. Total costs: \$150,000

Consultant: Allen, P.A. Empowering elders by enhancing cognitive health outcomes (ECHO). Administration on Aging subcontract through Benjamin Rose Institute. January-December 2010. Total costs: \$12,002.

Principal investigator: Allen, P.A. Lexical access and dual-task performance: Determining the locus of the bottleneck. Collaborative agreement—NASA-Ames Research Center. April 2002 to June 2004. Total direct costs: \$56,299.

Principal investigator: Allen, P.A. OBOR Individual Research Challenge Match (2001-2003 Biennium) to Lexical access and dual-task performance: Determining the locus of the bottleneck. Collaborative agreement—NASA-Ames Research Center. April 2002 to June 2004. Total direct costs: \$20,000

Principal investigator: Allen, P.A. Does Alzheimer's disease increase entropy levels in information processing? NIH subcontract through University Hospitals of Cleveland, June 2000 to May 2002. Total direct costs: \$25,000.

Principal investigator: Allen, P.A. Age differences in semantic and episodic memory. Competitive Renewal (R01-AG09282), National Institutes of Health, April 1997 to September 2001, Total direct costs: \$400,000.

Principal investigator: Allen, P.A. Minority Supplement to "Age differences in semantic and episodic memory, National Institutes of Health, November 1997 to May 2000, Total direct costs: \$120,000

Principal investigator: Allen, P.A. Age differences in cognitive noise. FIRST Award (R29-AG09282), National Institutes of Health, July 1991 to July 1997, Total direct costs: \$288,000.

Principal Investigator: Allen, P.A. Small instrumentation grant (AG11949), National Institutes of Health, August 1993 to August 1994. Total award: \$5000.